

Supplementary Table 1 291 PMRGs obtained from the GeneCards database.

Gene Symbol	Description	Category	Gifts	GC Id	Relevance score	GeneCards Link
PCCB	Propionyl-CoA Carboxylase Subunit Beta	Protein Coding	53	GC03P136250	61.11257935	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PCCB
PCCA	Propionyl-CoA Carboxylase Subunit Alpha	Protein Coding	53	GC13P100089	56.12726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PCCA
MMACHC	Metabolism Of Cobalamin Associated C	Protein Coding	50	GC01P045500	47.25754929	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMACHC
MTR	5-Methyltetrahydrofolate-Homocysteine Methyltransferase	Protein Coding	54	GC01P236795	39.33602524	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MTR
CYP2D6	Cytochrome P450 Family 2 Subfamily D Member 6	Protein Coding	53	GC22M042126	39.22632217	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP2D6
MMADHC	Metabolism Of Cobalamin Associated D	Protein Coding	49	GC02M149569	35.76113892	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMADHC
CYP3A4	Cytochrome P450 Family 3 Subfamily A Member 4	Protein Coding	56	GC07M099759	35.6474762	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP3A4
CYP2C19	Cytochrome P450 Family 2 Subfamily C Member 19	Protein Coding	52	GC10P094762	34.64389801	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP2C19
INS	Insulin	Protein Coding	55	GC11M002159	33.82258224	https://www.genecards.org/cgi-bin/carddisp.pl?gene=INS
MMUT	Methylmalonyl-CoA Mutase	Protein Coding	52	GC06M049430	31.02311325	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMUT
ABCA3	ATP Binding Cassette Subfamily A Member 3	Protein Coding	55	GC16M002275	30.44045639	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABCA3
MMAA	Metabolism Of Cobalamin Associated A	Protein Coding	47	GC04P145610	30.1062355	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMAA
UQCRFS1	Ubiquinol-Cytochrome C Reductase, Rieske Iron-Sulfur Polypeptide 1	Protein Coding	53	GC19M029205	30.09693146	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UQCRFS1
ACADM	Acyl-CoA Dehydrogenase Medium Chain	Protein Coding	52	GC01P075724	29.86544609	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACADM

PPARG	Peroxisome Proliferator Activated Receptor Gamma	Protein Coding	60	GC03P012287	29.00304985	ne=ACADM https://www.genecards.org/cgi-bin/carddisp.pl?gene=PPARG
MTRR	5-Methyltetrahydrofolate-Homocysteine Methyltransferase Reductase	Protein Coding	50	GC05P007851	28.36356544	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MTRR
LEP	Leptin	Protein Coding	53	GC07P128241	28.21476173	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LEP
MMAB	Metabolism Of Cobalamin Associated B	Protein Coding	51	GC12M109553	28.03660583	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMAB
OTC	Ornithine Transcarbamylase	Protein Coding	52	GC0XP038353	26.92333984	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OTC
CYP2C9	Cytochrome P450 Family 2 Subfamily C Member 9	Protein Coding	53	GC10P094938	25.8538208	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP2C9
LDLR	Low Density Lipoprotein Receptor	Protein Coding	58	GC19P011091	25.81306458	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LDLR
ALB	Albumin	Protein Coding	56	GC04P073397	25.16794777	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALB
CYP2C8	Cytochrome P450 Family 2 Subfamily C Member 8	Protein Coding	52	GC10M095038	25.04213715	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP2C8
APOE	Apolipoprotein E	Protein Coding	57	GC19P073055	24.89061928	https://www.genecards.org/cgi-bin/carddisp.pl?gene=APOE
ADIPOQ	Adiponectin, C1Q And Collagen Domain Containing	Protein Coding	52	GC03P186842	24.75322914	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADIPOQ
CYP1A2	Cytochrome P450 Family 1 Subfamily A Member 2	Protein Coding	52	GC15P074748	24.42164421	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP1A2
IL6	Interleukin 6	Protein Coding	58	GC07P022725	24.29815102	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL6
LIPC	Lipase C, Hepatic Type	Protein Coding	52	GC15P058410	24.07993889	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LIPC
LPL	Lipoprotein Lipase	Protein Coding	56	GC08P019901	23.63115692	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LPL

APOB	Apolipoprotein B	Protein Coding	53	GC02M020956	23.32738113	https://www.genecards.org/cgi-bin/carddisp.pl?gene=APOB
UGT1A1	UDP Glucuronosyltransferase Family 1 Member A1	Protein Coding	57	GC02P233760	23.1049614	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UGT1A1
CYP1A1	Cytochrome P450 Family 1 Subfamily A Member 1	Protein Coding	55	GC15M074719	23.08771324	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP1A1
GCDH	Glutaryl-CoA Dehydrogenase	Protein Coding	52	GC19P012891	23.0321064	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GCDH
PPARA	Peroxisome Proliferator Activated Receptor Alpha	Protein Coding	51	GC22P046150	22.84316635	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PPARA
CYP2B6	Cytochrome P450 Family 2 Subfamily B Member 6	Protein Coding	52	GC19P040991	22.70144463	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP2B6
IGF1	Insulin Like Growth Factor 1	Protein Coding	55	GC12M102395	22.66413879	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IGF1
CYP2A6	Cytochrome P450 Family 2 Subfamily A Member 6	Protein Coding	53	GC19M040843	22.56680679	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP2A6
TPMT	Thiopurine S-Methyltransferase	Protein Coding	53	GC06M018128	22.38929176	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TPMT
CBS	Cystathionine Beta-Synthase	Protein Coding	56	GC21M043053	22.33657455	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CBS
TNF	Tumor Necrosis Factor	Protein Coding	59	GC06P092154	21.97315598	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNF
HMGCL	3-Hydroxy-3-Methylglutaryl-CoA Lyase	Protein Coding	51	GC01M023801	21.91726685	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HMGCL
CYP2E1	Cytochrome P450 Family 2 Subfamily E Member 1	Protein Coding	52	GC10P133520	21.77449989	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP2E1
CSF2RA	Colony Stimulating Factor 2 Receptor Subunit Alpha	Protein Coding	52	GC0XP001845	21.42407227	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CSF2RA
PAH	Phenylalanine Hydroxylase	Protein Coding	55	GC12M102836	21.21108818	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PAH

CYP3A5	Cytochrome P450 Family 3 Subfamily A Member 5	Protein Coding	51	GC07M099648	21.14499283	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP3A5
BTD	Biotinidase	Protein Coding	52	GC03P017386	21.06881714	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BTD
GHRL	Ghrelin And Obestatin Prepropeptide	Protein Coding	49	GC03M010285	20.99878693	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GHRL
SFTPB	Surfactant Protein B	Protein Coding	51	GC02M085657	20.57275009	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SFTPB
ACADVL	Acyl-CoA Dehydrogenase Very Long Chain	Protein Coding	51	GC17P007219	20.4634285	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACADVL
CPT2	Carnitine Palmitoyltransferase 2	Protein Coding	56	GC01P053196	20.11322403	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CPT2
HADHA	Hydroxyacyl-CoA Dehydrogenase Trifunctional Multienzyme Complex Subunit Alpha	Protein Coding	52	GC02M026190	20.02347183	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HADHA
ETFDH	Electron Transfer Flavoprotein Dehydrogenase	Protein Coding	52	GC04P158672	19.88984299	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ETFDH
ACADS	Acyl-CoA Dehydrogenase Short Chain	Protein Coding	52	GC12P126959	19.86980438	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACADS
PC	Pyruvate Carboxylase	Protein Coding	53	GC11M066848	19.85100937	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PC
ADSL	Adenylosuccinate Lyase	Protein Coding	54	GC22P040346	19.84980774	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADSL
CRP	C-Reactive Protein	Protein Coding	53	GC01M159729	19.67492294	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CRP
GGT1	Gamma-Glutamyltransferase 1	Protein Coding	56	GC22P024583	19.48277092	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GGT1
NR3C1	Nuclear Receptor Subfamily 3 Group C Member 1	Protein Coding	56	GC05M143277	19.25010681	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NR3C1
BGLAP	Bone Gamma-Carboxyglutamate Protein	Protein Coding	46	GC01P156242	18.94005585	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BGLAP

INSR	Insulin Receptor	Protein Coding	60	GC19M007112	18.79404449	https://www.genecards.org/cgi-bin/carddisp.pl?gene=INSR
CPT1A	Carnitine Palmitoyltransferase 1A	Protein Coding	55	GC11M068754	18.33993149	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CPT1A
APOA1	Apolipoprotein A1	Protein Coding	57	GC11M116835	18.12685776	https://www.genecards.org/cgi-bin/carddisp.pl?gene=APOA1
BCKDHB	Branched Chain Keto Acid Dehydrogenase E1 Subunit Beta	Protein Coding	50	GC06P080106	18.03951263	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BCKDHB
AKT1	AKT Serine/Threonine Kinase 1	Protein Coding	61	GC14M104769	17.96221733	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AKT1
TP53	Tumor Protein P53	Protein Coding	60	GC17M007661	17.83651924	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TP53
CES1	Carboxylesterase 1	Protein Coding	55	GC16M055836	17.61368179	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CES1
HNF4A	Hepatocyte Nuclear Factor 4 Alpha	Protein Coding	56	GC20P044355	17.52772713	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HNF4A
ABCD4	ATP Binding Cassette Subfamily D Member 4	Protein Coding	50	GC14M074285	17.33675766	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABCD4
UGT1A6	UDP Glucuronosyltransferase Family 1 Member A6	Protein Coding	48	GC02P233691	17.17436981	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UGT1A6
ASS1	Argininosuccinate Synthase 1	Protein Coding	56	GC09P130444	17.09732819	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ASS1
MCEE	Methylmalonyl-CoA Epimerase	Protein Coding	47	GC02M071110	17.0945816	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MCEE
HLCS	Holocarboxylase Synthetase	Protein Coding	48	GC21M036750	17.08519173	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HLCS
POMC	Proopiomelanocortin	Protein Coding	55	GC02M025160	16.98484993	https://www.genecards.org/cgi-bin/carddisp.pl?gene=POMC
ACE	Angiotensin I Converting Enzyme	Protein Coding	59	GC17P063477	16.94721031	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACE

IVD	Isovaleryl-CoA Dehydrogenase	Protein Coding	51	GC15P040405	16.93725967	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IVD
HIBCH	3-Hydroxyisobutyryl-CoA Hydrolase	Protein Coding	50	GC02M190189	16.7645874	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HIBCH
NAGS	N-Acetylglutamate Synthase	Protein Coding	47	GC17P044004	16.73843575	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NAGS
LMBRD1	LMBR1 Domain Containing 1	Protein Coding	47	GC06M072251	16.69300079	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LMBRD1
SLC2A1	Solute Carrier Family 2 Member 1	Protein Coding	60	GC01M042925	16.59392548	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC2A1
CETP	Cholesteryl Ester Transfer Protein	Protein Coding	53	GC16P056961	16.59146118	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CETP
CPS1	Carbamoyl-Phosphate Synthase 1	Protein Coding	55	GC02P210477	16.44989777	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CPS1
CYP1B1	Cytochrome P450 Family 1 Subfamily B Member 1	Protein Coding	54	GC02M038066	16.42423248	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP1B1
SLC22A5	Solute Carrier Family 22 Member 5	Protein Coding	53	GC05P132369	16.36189461	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC22A5
GPT	Glutamic--Pyruvic Transaminase	Protein Coding	48	GC08P144502	16.35798264	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GPT
GLDC	Glycine Decarboxylase	Protein Coding	53	GC09M006522	16.15870285	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GLDC
IL1B	Interleukin 1 Beta	Protein Coding	54	GC02M112829	16.14551735	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL1B
VDR	Vitamin D Receptor	Protein Coding	56	GC12M047841	16.03931808	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VDR
FH	Fumarate Hydratase	Protein Coding	53	GC01M241499	15.98605347	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FH
PRODH	Proline Dehydrogenase 1	Protein Coding	52	GC22M018912	15.97478485	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRODH

CYP7A1	Cytochrome P450 Family 7 Subfamily A Member 1	Protein Coding	49	GC08M058476	15.92755032	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP7A1
HSD11B1	Hydroxysteroid 11-Beta Dehydrogenase 1	Protein Coding	58	GC01P209686	15.90985107	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSD11B1
ENPP1	Ectonucleotide Pyrophosphatase/Phosphodiesterase 1	Protein Coding	56	GC06P131808	15.89481449	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENPP1
HSD11B2	Hydroxysteroid 11-Beta Dehydrogenase 2	Protein Coding	52	GC16P067433	15.8716507	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSD11B2
CYP27B1	Cytochrome P450 Family 27 Subfamily B Member 1	Protein Coding	52	GC12M057790	15.85970306	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP27B1
XDH	Xanthine Dehydrogenase	Protein Coding	54	GC02M031334	15.85227299	https://www.genecards.org/cgi-bin/carddisp.pl?gene=XDH
RETN	Resistin	Protein Coding	49	GC19P007669	15.76069736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RETN
ABCB1	ATP Binding Cassette Subfamily B Member 1	Protein Coding	57	GC07M087504	15.75623131	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABCB1
CA5A	Carbonic Anhydrase 5A	Protein Coding	50	GC16M087882	15.74926186	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CA5A
MAT1A	Methionine Adenosyltransferase 1A	Protein Coding	52	GC10M080271	15.67016792	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAT1A
LEPR	Leptin Receptor	Protein Coding	57	GC01P065421	15.63416672	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LEPR
IRS1	Insulin Receptor Substrate 1	Protein Coding	53	GC02M226731	15.51399326	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IRS1
UGT1A8	UDP Glucuronosyltransferase Family 1 Member A8	Protein Coding	43	GC02P233618	15.4636898	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UGT1A8
GAMT	Guanidinoacetate N-Methyltransferase	Protein Coding	52	GC19M001397	15.44042587	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GAMT
ABCA1	ATP Binding Cassette Subfamily A Member 1	Protein Coding	55	GC09M104781	15.39727402	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABCA1

UGT1A9	UDP Glucuronosyltransferase Family 1 Member A9	Protein Coding	51	GC02P233671	15.35033798	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UGT1A9
GALT	Galactose-1-Phosphate Uridyltransferase	Protein Coding	53	GC09P048949	15.34730434	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GALT
FGF23	Fibroblast Growth Factor 23	Protein Coding	52	GC12M004368	15.22850227	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGF23
CYP17A1	Cytochrome P450 Family 17 Subfamily A Member 1	Protein Coding	55	GC10M102830	15.21972752	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP17A1
G6PC1	Glucose-6-Phosphatase Catalytic Subunit 1	Protein Coding	51	GC17P063334	15.16344547	https://www.genecards.org/cgi-bin/carddisp.pl?gene=G6PC1
HFE	Homeostatic Iron Regulator	Protein Coding	52	GC06P026087	15.10912323	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HFE
APOC3	Apolipoprotein C3	Protein Coding	52	GC11P116829	15.01816845	https://www.genecards.org/cgi-bin/carddisp.pl?gene=APOC3
FASN	Fatty Acid Synthase	Protein Coding	55	GC17M082078	15.00522327	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FASN
DPYD	Dihydropyrimidine Dehydrogenase	Protein Coding	59	GC01M097015	14.99942017	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DPYD
BCKDHA	Branched Chain Keto Acid Dehydrogenase E1 Subunit Alpha	Protein Coding	51	GC19P072922	14.99351788	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BCKDHA
ADRB2	Adrenoceptor Beta 2	Protein Coding	56	GC05P148825	14.96682453	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADRB2
ALDH2	Aldehyde Dehydrogenase 2 Family Member	Protein Coding	57	GC12P111766	14.95112228	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALDH2
NR3C2	Nuclear Receptor Subfamily 3 Group C Member 2	Protein Coding	52	GC04M148078	14.85720921	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NR3C2
SLCO1B1	Solute Carrier Organic Anion Transporter Family Member 1B1	Protein Coding	55	GC12P023907	14.79038334	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLCO1B1
HCFC1	Host Cell Factor C1	Protein Coding	53	GC0XM153947	14.77022457	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HCFC1

IL10	Interleukin 10	Protein Coding	55	GC01M206767	14.64819908	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL10
CASR	Calcium Sensing Receptor	Protein Coding	57	GC03P122183	14.60171509	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CASR
GCG	Glucagon	Protein Coding	48	GC02M162142	14.56726742	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GCG
PCSK9	Proprotein Convertase Subtilisin/Kexin Type 9	Protein Coding	57	GC01P055039	14.51441669	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PCSK9
HSD17B10	Hydroxysteroid 17-Beta Dehydrogenase 10	Protein Coding	53	GC0XM053431	14.5091486	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSD17B10
SHBG	Sex Hormone Binding Globulin	Protein Coding	48	GC17P007613	14.43100166	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SHBG
SLC2A4	Solute Carrier Family 2 Member 4	Protein Coding	52	GC17P011713	14.34994125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC2A4
CYP19A1	Cytochrome P450 Family 19 Subfamily A Member 1	Protein Coding	55	GC15M051208	14.28239822	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP19A1
HPD	4-Hydroxyphenylpyruvate Dioxygenase	Protein Coding	52	GC12M121839	14.13055611	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HPD
HIF1A	Hypoxia Inducible Factor 1 Subunit Alpha	Protein Coding	54	GC14P061695	14.09283161	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HIF1A
VKORC1	Vitamin K Epoxide Reductase Complex Subunit 1	Protein Coding	54	GC16M038547	14.08553123	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VKORC1
AHCY	Adenosylhomocysteinase	Protein Coding	56	GC20M034942	14.07678223	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AHCY
FBP1	Fructose-Bisphosphatase 1	Protein Coding	56	GC09M094603	14.06463623	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FBP1
NOS3	Nitric Oxide Synthase 3	Protein Coding	56	GC07P150990	14.06137276	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NOS3
ALDH5A1	Aldehyde Dehydrogenase 5 Family Member A1	Protein Coding	54	GC06P024494	14.05005932	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALDH5A1

FTCD	Formimidoyltransferase Cyclodeaminase	Protein Coding	49	GC21M051374	14.04514503	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALDH5A1
LDHA	Lactate Dehydrogenase A	Protein Coding	57	GC11P018394	14.0241642	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FTCD
PTH	Parathyroid Hormone	Protein Coding	52	GC11M013492	14.01707935	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LDHA
PPARD	Peroxisome Proliferator Activated Receptor Delta	Protein Coding	52	GC06P092273	13.99849129	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTH
UCP2	Uncoupling Protein 2	Protein Coding	52	GC11M073974	13.88011551	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PPARD
GSTP1	Glutathione S-Transferase Pi 1	Protein Coding	57	GC11P067583	13.80813503	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UCP2
ESR1	Estrogen Receptor 1	Protein Coding	61	GC06P151656	13.80347061	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GSTP1
PTGS2	Prostaglandin-Endoperoxide Synthase 2	Protein Coding	56	GC01M186671	13.66300106	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ESR1
PON1	Paraoxonase 1	Protein Coding	55	GC07M095297	13.57410049	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTGS2
ETFA	Electron Transfer Flavoprotein Subunit Alpha	Protein Coding	52	GC15M122358	13.51145744	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PON1
HMGCR	3-Hydroxy-3-Methylglutaryl-CoA Reductase	Protein Coding	53	GC05P075336	13.458951	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ETFA
FAH	Fumarylacetoacetate Hydrolase	Protein Coding	53	GC15P080152	13.40405846	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HMGCR
PSAP	Prosaposin	Protein Coding	54	GC10M071816	13.35322666	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FAH
CP	Ceruloplasmin	Protein Coding	55	GC03M149162	13.33574104	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PSAP
COMT	Catechol-O-Methyltransferase	Protein Coding	59	GC22P019941	13.30807877	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CP
						https://www.genecards.org/cgi-bin/carddisp.pl?gene=COMT

SREBF1	Sterol Regulatory Element Binding Transcription Factor 1	Protein Coding	53	GC17M017810	13.25699425	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SREBF1
NR1H2	Nuclear Receptor Subfamily 1 Group H Member 2	Protein Coding	53	GC19P050329	13.08687782	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NR1H2
ASL	Argininosuccinate Lyase	Protein Coding	52	GC07P066075	12.97810268	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ASL
HADH	Hydroxyacyl-CoA Dehydrogenase	Protein Coding	54	GC04P107989	12.95173168	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HADH
SMPD1	Sphingomyelin Phosphodiesterase 1	Protein Coding	56	GC11P006390	12.94299412	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SMPD1
COX5A	Cytochrome C Oxidase Subunit 5A	Protein Coding	50	GC15M074919	12.93949127	https://www.genecards.org/cgi-bin/carddisp.pl?gene=COX5A
REN	Renin	Protein Coding	55	GC01M204154	12.88049412	https://www.genecards.org/cgi-bin/carddisp.pl?gene=REN
GSS	Glutathione Synthetase	Protein Coding	53	GC20M034928	12.87272263	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GSS
G6PD	Glucose-6-Phosphate Dehydrogenase	Protein Coding	57	GC0XM154562	12.85865021	https://www.genecards.org/cgi-bin/carddisp.pl?gene=G6PD
SLC16A1	Solute Carrier Family 16 Member 1	Protein Coding	54	GC01M113013	12.82639217	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC16A1
CD36	CD36 Molecule	Protein Coding	56	GC07P080369	12.77978039	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD36
NPC1	NPC Intracellular Cholesterol Transporter 1	Protein Coding	56	GC18M023506	12.75236893	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPC1
DDC	Dopa Decarboxylase	Protein Coding	57	GC07M050458	12.74859524	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DDC
APOA5	Apolipoprotein A5	Protein Coding	51	GC11M116789	12.7049284	https://www.genecards.org/cgi-bin/carddisp.pl?gene=APOA5
CYP21A2	Cytochrome P450 Family 21 Subfamily A Member 2	Protein Coding	51	GC06P092176	12.66181755	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP21A2

CXCL8	C-X-C Motif Chemokine Ligand 8	Protein Coding	50	GC04P073740	12.65779114	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP21A2
UGT1A3	UDP Glucuronosyltransferase Family 1 Member A3	Protein Coding	44	GC02P233729	12.65203857	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CXCL8
EPHX1	Epoxide Hydrolase 1	Protein Coding	52	GC01P225810	12.62948704	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UGT1A3
MLYCD	Malonyl-CoA Decarboxylase	Protein Coding	48	GC16P083899	12.62700081	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPHX1
CYP24A1	Cytochrome P450 Family 24 Subfamily A Member 1	Protein Coding	53	GC20M054153	12.61680889	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MLYCD
PDHA1	Pyruvate Dehydrogenase E1 Subunit Alpha 1	Protein Coding	54	GC0XP019343	12.60220623	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP24A1
PRKAA2	Protein Kinase AMP-Activated Catalytic Subunit Alpha 2	Protein Coding	57	GC01P056645	12.5937233	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDHA1
SOD1	Superoxide Dismutase 1	Protein Coding	60	GC21P031659	12.58113956	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRKAA2
UGT1A10	UDP Glucuronosyltransferase Family 1 Member A10	Protein Coding	48	GC02P233636	12.54686928	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SOD1
SLC17A5	Solute Carrier Family 17 Member 5	Protein Coding	51	GC06M073593	12.54128933	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UGT1A10
NAT2	N-Acetyltransferase 2	Protein Coding	47	GC08P018391	12.47551346	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC17A5
LIPE	Lipase E, Hormone Sensitive Type	Protein Coding	54	GC19M042401	12.46535015	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NAT2
PLA2G4A	Phospholipase A2 Group IVA	Protein Coding	55	GC01P186798	12.43510914	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LIPE
ACACA	Acetyl-CoA Carboxylase Alpha	Protein Coding	55	GC17M037084	12.39061165	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLA2G4A
PRKAA1	Protein Kinase AMP-Activated Catalytic Subunit Alpha 1	Protein Coding	54	GC05M040759	12.38722038	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACACA

ADA	Adenosine Deaminase	Protein Coding	57	GC20M044620	12.38394356	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRKAA1
NR1I2	Nuclear Receptor Subfamily 1 Group I Member 2	Protein Coding	51	GC03P119780	12.3428793	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADA
QDPR	Quinoid Dihydropteridine Reductase	Protein Coding	53	GC04M017460	12.31072426	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NR1I2
ALDH6A1	Aldehyde Dehydrogenase 6 Family Member A1	Protein Coding	52	GC14M074059	12.25684834	https://www.genecards.org/cgi-bin/carddisp.pl?gene=QDPR
ABCC2	ATP Binding Cassette Subfamily C Member 2	Protein Coding	55	GC10P099782	12.24063396	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALDH6A1
F2	Coagulation Factor II, Thrombin	Protein Coding	56	GC11P046720	12.21356201	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABCC2
DLD	Dihydrolipoamide Dehydrogenase	Protein Coding	56	GC07P107890	12.20763779	https://www.genecards.org/cgi-bin/carddisp.pl?gene=F2
PYGM	Glycogen Phosphorylase, Muscle Associated	Protein Coding	53	GC11M064746	12.18904305	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DLD
HBB	Hemoglobin Subunit Beta	Protein Coding	51	GC11M006827	12.17414379	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PYGM
CCL2	C-C Motif Chemokine Ligand 2	Protein Coding	56	GC17P034255	12.15099144	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HBB
MCCC2	Methylcrotonyl-CoA Carboxylase Subunit 2	Protein Coding	51	GC05P073552	12.12744713	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCL2
ARSA	Arylsulfatase A	Protein Coding	53	GC22M050622	12.1175108	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MCCC2
UGT1A7	UDP Glucuronosyltransferase Family 1 Member A7	Protein Coding	47	GC02P233681	12.10301018	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARSA
KL	Klotho	Protein Coding	54	GC13P033016	12.0826025	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UGT1A7
SERPINE1	Serpin Family E Member 1	Protein Coding	57	GC07P101127	12.04139709	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KL

DYRK1B	Dual Specificity Tyrosine Phosphorylation Regulated Kinase 1B	Protein Coding	53	GC19M039825	12.03226757	ne=SERPINE1 https://www.genecards.org/cgi-bin/carddisp.pl?gene=DYRK1B
SUOX	Sulfite Oxidase	Protein Coding	51	GC12P055997	12.02076054	ne=SUOX https://www.genecards.org/cgi-bin/carddisp.pl?gene=SUOX
NR1H4	Nuclear Receptor Subfamily 1 Group H Member 4	Protein Coding	55	GC12P100473	12.00567818	ne=NR1H4 https://www.genecards.org/cgi-bin/carddisp.pl?gene=NR1H4
BCKDK	Branched Chain Keto Acid Dehydrogenase Kinase	Protein Coding	52	GC16P042844	11.98306084	ne=BCKDK https://www.genecards.org/cgi-bin/carddisp.pl?gene=BCKDK
PTEN	Phosphatase And Tensin Homolog	Protein Coding	59	GC10P094594	11.97610664	ne=PTEN https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTEN
CS	Citrate Synthase	Protein Coding	51	GC12M056271	11.92381477	ne=CS https://www.genecards.org/cgi-bin/carddisp.pl?gene=CS
ALDOB	Aldolase, Fructose-Bisphosphate B	Protein Coding	52	GC09M101420	11.91490173	ne=ALDOB https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALDOB
APOA2	Apolipoprotein A2	Protein Coding	52	GC01M161222	11.90166092	ne=APOA2 https://www.genecards.org/cgi-bin/carddisp.pl?gene=APOA2
IFNG	Interferon Gamma	Protein Coding	57	GC12M068154	11.8699913	ne=IFNG https://www.genecards.org/cgi-bin/carddisp.pl?gene=IFNG
DPP4	Dipeptidyl Peptidase 4	Protein Coding	57	GC02M161992	11.85106945	ne=DPP4 https://www.genecards.org/cgi-bin/carddisp.pl?gene=DPP4
PNP	Purine Nucleoside Phosphorylase	Protein Coding	56	GC14P034354	11.83236408	ne=PNP https://www.genecards.org/cgi-bin/carddisp.pl?gene=PNP
ALPL	Alkaline Phosphatase, Biomineralization Associated	Protein Coding	58	GC01P021508	11.82943535	ne=ALPL https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALPL
ALOX5	Arachidonate 5-Lipoxygenase	Protein Coding	54	GC10P045374	11.82166386	ne=ALOX5 https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALOX5
GATM	Glycine Amidinotransferase	Protein Coding	52	GC15M045361	11.68083858	ne=GATM https://www.genecards.org/cgi-bin/carddisp.pl?gene=GATM
MCCC1	Methylcrotonyl-CoA Carboxylase Subunit 1	Protein Coding	50	GC03M183015	11.66801453	ne=MCCC1 https://www.genecards.org/cgi-bin/carddisp.pl?gene=MCCC1

BCHE	Butyrylcholinesterase	Protein Coding	57	GC03M165772	11.63358974	ne=MCCC1 https://www.genecards.org/cgi-bin/carddisp.pl?gene=BCHE
PIK3CA	Phosphatidylinositol-4,5-Bisphosphate 3-Kinase Catalytic Subunit Alpha	Protein Coding	59	GC03P179148	11.63045788	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PIK3CA
MPO	Myeloperoxidase	Protein Coding	59	GC17M058269	11.59176159	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MPO
ARG1	Arginase 1	Protein Coding	56	GC06P131473	11.57893658	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARG1
SLC4A1	Solute Carrier Family 4 Member 1 (Diego Blood Group)	Protein Coding	54	GC17M051897	11.54837894	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC4A1
FABP4	Fatty Acid Binding Protein 4	Protein Coding	50	GC08M081478	11.49729919	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FABP4
CAT	Catalase	Protein Coding	58	GC11P034460	11.48341846	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CAT
STAR	Steroidogenic Acute Regulatory Protein	Protein Coding	51	GC08M038145	11.43203926	https://www.genecards.org/cgi-bin/carddisp.pl?gene=STAR
ABCC8	ATP Binding Cassette Subfamily C Member 8	Protein Coding	53	GC11M017392	11.42554283	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABCC8
OGDH	Oxoglutarate Dehydrogenase	Protein Coding	53	GC07P044606	11.42041874	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OGDH
NQO1	NAD(P)H Quinone Dehydrogenase 1	Protein Coding	55	GC16M069706	11.40145969	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NQO1
HADHB	Hydroxyacyl-CoA Dehydrogenase Trifunctional Multienzyme Complex Subunit Beta	Protein Coding	54	GC02P026243	11.36002731	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HADHB
SULT1A1	Sulfotransferase Family 1A Member 1	Protein Coding	50	GC16M038249	11.33466053	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SULT1A1
MVK	Mevalonate Kinase	Protein Coding	54	GC12P109573	11.33141518	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MVK
AMPD3	Adenosine Monophosphate Deaminase 3	Protein Coding	51	GC11P010309	11.29901218	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AMPD3

FABP2	Fatty Acid Binding Protein 2	Protein Coding	48	GC04M119317	11.29714584	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FABP2
UGT1A	UDP Glucuronosyltransferase Family 1 Member A Complex Locus	Uncategorized	13	GC02P233592	11.28607178	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UGT1A
TF	Transferrin	Protein Coding	57	GC03P135056	11.27254391	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TF
RYR1	Ryanodine Receptor 1	Protein Coding	53	GC19P072806	11.22693443	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RYR1
SDHB	Succinate Dehydrogenase Complex Iron Sulfur Subunit B	Protein Coding	54	GC01M018297	11.20557117	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SDHB
CYP3A7	Cytochrome P450 Family 3 Subfamily A Member 7	Protein Coding	47	GC07M099705	11.19146252	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP3A7
ACSS2	Acyl-CoA Synthetase Short Chain Family Member 2	Protein Coding	52	GC20P034873	11.14794254	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACSS2
ACAT1	Acetyl-CoA Acetyltransferase 1	Protein Coding	56	GC11P108121	11.1475544	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACAT1
CTH	Cystathionine Gamma-Lyase	Protein Coding	56	GC01P070411	11.13909245	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTH
AR	Androgen Receptor	Protein Coding	59	GC0XP067544	11.10406113	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AR
GNAS	GNAS Complex Locus	Protein Coding	56	GC20P058839	11.09564114	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GNAS
GCSH	Glycine Cleavage System Protein H	Protein Coding	49	GC16M081081	11.08065605	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GCSH
PNPLA3	Patatin Like Phospholipase Domain Containing 3	Protein Coding	48	GC22P043923	11.0245285	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PNPLA3
FGF21	Fibroblast Growth Factor 21	Protein Coding	46	GC19P073194	10.99773979	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGF21
CPOX	Coproporphyrinogen Oxidase	Protein Coding	51	GC03M098576	10.99168968	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CPOX

CNR1	Cannabinoid Receptor 1	Protein Coding	53	GC06M088139	10.95663166	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CNR1
TAT	Tyrosine Aminotransferase	Protein Coding	52	GC16M071565	10.91602612	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TAT
GRIA2	Glutamate Ionotropic Receptor AMPA Type Subunit 2	Protein Coding	58	GC04P157204	10.91508484	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRIA2
EHHADH	Enoyl-CoA Hydratase And 3-Hydroxyacyl CoA Dehydrogenase	Protein Coding	50	GC03M185190	10.90606213	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EHHADH
CFTR	CF Transmembrane Conductance Regulator	Protein Coding	59	GC07P117287	10.90104771	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CFTR
UPB1	Beta-Ureidopropionase 1	Protein Coding	51	GC22P024494	10.89578056	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UPB1
PTGS1	Prostaglandin-Endoperoxide Synthase 1	Protein Coding	53	GC09P122370	10.85939598	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTGS1
RBP4	Retinol Binding Protein 4	Protein Coding	52	GC10M093591	10.77317238	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RBP4
HMOX1	Heme Oxygenase 1	Protein Coding	59	GC22P035380	10.77141571	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HMOX1
POR	Cytochrome P450 Oxidoreductase	Protein Coding	56	GC07P075899	10.76194668	https://www.genecards.org/cgi-bin/carddisp.pl?gene=POR
MB	Myoglobin	Protein Coding	50	GC22M035606	10.72063637	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MB
SDHA	Succinate Dehydrogenase Complex Flavoprotein Subunit A	Protein Coding	54	GC05P000220	10.72057343	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SDHA
ABCG2	ATP Binding Cassette Subfamily G Member 2 (Junior Blood Group)	Protein Coding	56	GC04M088090	10.62441158	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABCG2
DGAT1	Diacylglycerol O-Acyltransferase 1	Protein Coding	55	GC08M144325	10.61318207	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DGAT1
CYP11B2	Cytochrome P450 Family 11 Subfamily B Member 2	Protein Coding	53	GC08M142910	10.61117077	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP11B2

UGT2B7	UDP Glucuronosyltransferase Family 2 Member B7	Protein Coding	50	GC04P069051	10.59724236	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP11B2
CYP27A1	Cytochrome P450 Family 27 Subfamily A Member 1	Protein Coding	53	GC02P218781	10.5703907	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UGT2B7
SLC25A20	Solute Carrier Family 25 Member 20	Protein Coding	51	GC03M048864	10.55376339	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP27A1
PRL	Prolactin	Protein Coding	50	GC06M022287	10.54038048	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC25A20
UGT1A4	UDP Glucuronosyltransferase Family 1 Member A4	Protein Coding	49	GC02P233718	10.53925133	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRL
VCAM1	Vascular Cell Adhesion Molecule 1	Protein Coding	52	GC01P100719	10.49340725	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UGT1A4
KYNU	Kynureninase	Protein Coding	55	GC02P142877	10.47294903	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VCAM1
SRD5A2	Steroid 5 Alpha-Reductase 2	Protein Coding	49	GC02M031522	10.46125317	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KYNU
TYMP	Thymidine Phosphorylase	Protein Coding	54	GC22M050525	10.40325737	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SRD5A2
MC4R	Melanocortin 4 Receptor	Protein Coding	53	GC18M060371	10.38755989	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TYMP
NDUFS4	NADH:Ubiquinone Oxidoreductase Subunit S4	Protein Coding	50	GC05P053560	10.37858486	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MC4R
PCK2	Phosphoenolpyruvate Carboxykinase 2, Mitochondrial	Protein Coding	53	GC14P024094	10.35907841	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NDUFS4
SCD	Stearoyl-CoA Desaturase	Protein Coding	57	GC10P100347	10.35372066	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PCK2
GSR	Glutathione-Disulfide Reductase	Protein Coding	56	GC08M030678	10.34006882	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SCD
GRIA1	Glutamate Ionotropic Receptor AMPA Type Subunit 1	Protein Coding	56	GC05P153467	10.3355341	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GSR
						https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRIA1

HMGCS2	3-Hydroxy-3-Methylglutaryl-CoA Synthase 2	Protein Coding	53	GC01M119747	10.30286884	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HMGCS2
FFAR2	Free Fatty Acid Receptor 2	Protein Coding	48	GC19P072731	10.30257607	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FFAR2
BLOC1S1	Biogenesis Of Lysosomal Organelles Complex 1 Subunit 1	Protein Coding	42	GC12P055950	10.30231476	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BLOC1S1
GH1	Growth Hormone 1	Protein Coding	50	GC17M063917	10.25849533	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GH1
KCNJ1	Potassium Inwardly Rectifying Channel Subfamily J Member 1	Protein Coding	54	GC11M128741	10.25777531	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNJ1
APP	Amyloid Beta Precursor Protein	Protein Coding	58	GC21M025880	10.25391865	https://www.genecards.org/cgi-bin/carddisp.pl?gene=APP
EPHX2	Epoxide Hydrolase 2	Protein Coding	53	GC08P027490	10.23595047	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPHX2
PTPN1	Protein Tyrosine Phosphatase Non-Receptor Type 1	Protein Coding	57	GC20P050510	10.23029804	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPN1
GOT2	Glutamic-Oxaloacetic Transaminase 2	Protein Coding	53	GC16M058707	10.2194376	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GOT2
KCNJ11	Potassium Inwardly Rectifying Channel Subfamily J Member 11	Protein Coding	53	GC11M017663	10.20500565	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNJ11
NR113	Nuclear Receptor Subfamily 1 Group 1 Member 3	Protein Coding	51	GC01M161229	10.19310284	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NR113
CYP11B1	Cytochrome P450 Family 11 Subfamily B Member 1	Protein Coding	52	GC08M142872	10.17906284	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP11B1
HK2	Hexokinase 2	Protein Coding	52	GC02P074833	10.16204357	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HK2
ATP7A	ATPase Copper Transporting Alpha	Protein Coding	52	GC0XP078031	10.16186047	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATP7A
MTOR	Mechanistic Target Of Rapamycin Kinase	Protein Coding	62	GC01M011106	10.12988853	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MTOR

IGFBP3	Insulin Like Growth Factor Binding Protein 3	Protein Coding	54	GC07M045912	10.12064362	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IGFBP3
TCN2	Transcobalamin 2	Protein Coding	50	GC22P044849	10.1113596	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TCN2
BDNF	Brain Derived Neurotrophic Factor	Protein Coding	56	GC11M027654	10.10180569	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BDNF
AKR1A1	Aldo-Keto Reductase Family 1 Member A1	Protein Coding	51	GC01P045550	10.08849812	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AKR1A1
UCP1	Uncoupling Protein 1	Protein Coding	50	GC04M140559	10.07172298	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UCP1
SERPINA1	Serpin Family A Member 1	Protein Coding	56	GC14M094376	10.03485966	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SERPINA1
TTR	Transthyretin	Protein Coding	55	GC18P031557	10.01377964	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TTR
CYP4F2	Cytochrome P450 Family 4 Subfamily F Member 2	Protein Coding	50	GC19M015878	9.978006363	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP4F2
ALDH9A1	Aldehyde Dehydrogenase 9 Family Member A1	Protein Coding	49	GC01M165681	9.949209213	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALDH9A1
AKT2	AKT Serine/Threonine Kinase 2	Protein Coding	61	GC19M040230	9.924123764	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AKT2
HNF1A	HNF1 Homeobox A	Protein Coding	53	GC12P120978	9.914362907	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HNF1A
PPIG	Peptidylprolyl Isomerase G	Protein Coding	48	GC02P169584	9.875458717	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PPIG
LIPA	Lipase A, Lysosomal Acid Type	Protein Coding	55	GC10M089213	9.852193832	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LIPA
SCNN1G	Sodium Channel Epithelial 1 Subunit Gamma	Protein Coding	53	GC16P023182	9.823068619	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SCNN1G
UROCI	Urocanate Hydratase 1	Protein Coding	46	GC03M126481	9.821082115	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UROCI

PCK1	Phosphoenolpyruvate Carboxykinase 1	Protein Coding	54	GC20P057561	9.816595078	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PCK1
NPY	Neuropeptide Y	Protein Coding	51	GC07P024290	9.814024925	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPY
SLC25A15	Solute Carrier Family 25 Member 15	Protein Coding	50	GC13P040789	9.767385483	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC25A15
MT-ND6	Mitochondrially Encoded NADH:Ubiquinone Oxidoreductase Core Subunit 6	Protein Coding	38	GCMTM014151	9.757986069	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MT-ND6
HGD	Homogentisate 1,2-Dioxygenase	Protein Coding	50	GC03M120628	9.720542908	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HGD
SERPINA3	Serpin Family A Member 3	Protein Coding	50	GC14P094612	9.719280243	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SERPINA3
ASAH1	N-Acylsphingosine Amidohydrolase 1	Protein Coding	56	GC08M018055	9.712446213	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ASAH1
PDP1	Pyruvate Dehydrogenase Phosphatase Catalytic Subunit 1	Protein Coding	54	GC08P093857	9.703587532	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDP1
ABCC1	ATP Binding Cassette Subfamily C Member 1	Protein Coding	56	GC16P015949	9.692297935	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABCC1
DPYS	Dihydropyrimidinase	Protein Coding	52	GC08M104331	9.645685196	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DPYS
SLC5A6	Solute Carrier Family 5 Member 6	Protein Coding	51	GC02M027201	9.638032913	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC5A6
TPI1	Triosephosphate Isomerase 1	Protein Coding	54	GC12P006867	9.596486092	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TPI1
PRKAB1	Protein Kinase AMP-Activated Non-Catalytic Subunit Beta 1	Protein Coding	53	GC12P119632	9.594614029	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRKAB1
ABCB11	ATP Binding Cassette Subfamily B Member 11	Protein Coding	53	GC02M168922	9.566059113	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABCB11
TNFSF11	TNF Superfamily Member 11	Protein Coding	56	GC13P042562	9.559355736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNFSF11

PHKA2	Phosphorylase Kinase Regulatory Subunit Alpha 2	Protein Coding	51	GC0XM018892	9.55429554	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PHKA2
EPO	Erythropoietin	Protein Coding	49	GC07P100720	9.553358078	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPO
EPRS1	Glutamyl-Prolyl-TRNA Synthetase 1	Protein Coding	50	GC01M219969	9.552751541	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPRS1
MAOA	Monoamine Oxidase A	Protein Coding	55	GC0XP043654	9.547767639	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAOA
ACAT2	Acetyl-CoA Acetyltransferase 2	Protein Coding	51	GC06P160802	9.544605255	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACAT2
SCARB1	Scavenger Receptor Class B Member 1	Protein Coding	55	GC12M124776	9.489313126	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SCARB1
MT-CYB	Mitochondrially Encoded Cytochrome B	Protein Coding	38	GCMTP014749	9.488700867	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MT-CYB
BCL2	BCL2 Apoptosis Regulator	Protein Coding	57	GC18M063123	9.478082657	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BCL2
BMP6	Bone Morphogenetic Protein 6	Protein Coding	50	GC06P007726	9.47426033	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BMP6
ANGPTL4	Angiopoietin Like 4	Protein Coding	52	GC19P008363	9.469734192	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ANGPTL4
MAPK1	Mitogen-Activated Protein Kinase 1	Protein Coding	59	GC22M021759	9.460432053	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAPK1
SREBF2	Sterol Regulatory Element Binding Transcription Factor 2	Protein Coding	50	GC22P041833	9.449868202	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SREBF2
SLC6A8	Solute Carrier Family 6 Member 8	Protein Coding	53	GC0XP153688	9.426587105	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC6A8
PGR	Progesterone Receptor	Protein Coding	56	GC11M102130	9.400068283	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PGR
PKM	Pyruvate Kinase M1/2	Protein Coding	56	GC15M072199	9.394825935	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PKM

PRPS1	Phosphoribosyl Pyrophosphate Synthetase 1	Protein Coding	54	GC0XP107628	9.386370659	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRPS1
AHR	Aryl Hydrocarbon Receptor	Protein Coding	54	GC07P016916	9.34418869	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AHR
ACSS1	Acyl-CoA Synthetase Short Chain Family Member 1	Protein Coding	47	GC20M024986	9.330976486	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACSS1
RRM2B	Ribonucleotide Reductase Regulatory TP53 Inducible Subunit M2B	Protein Coding	56	GC08M102204	9.317185402	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RRM2B
B3GAT1	Beta-1,3-Glucuronyltransferase 1	Protein Coding	50	GC11M134378	9.305902481	https://www.genecards.org/cgi-bin/carddisp.pl?gene=B3GAT1
MMP1	Matrix Metalloproteinase 1	Protein Coding	57	GC11M102810	9.27759552	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMP1
AOX1	Aldehyde Oxidase 1	Protein Coding	51	GC02P200585	9.275713921	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AOX1
TFRC	Transferrin Receptor	Protein Coding	58	GC03M196056	9.241100311	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TFRC
GAPDH	Glyceraldehyde-3-Phosphate Dehydrogenase	Protein Coding	57	GC12P023539	9.224225998	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GAPDH
ALDH3A2	Aldehyde Dehydrogenase 3 Family Member A2	Protein Coding	52	GC17P019648	9.220035553	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALDH3A2
CYP26A1	Cytochrome P450 Family 26 Subfamily A Member 1	Protein Coding	50	GC10P093073	9.213516235	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP26A1
SELE	Selectin E	Protein Coding	50	GC01M169722	9.211622238	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SELE
ODC1	Ornithine Decarboxylase 1	Protein Coding	55	GC02M010432	9.199753761	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ODC1
SI	Sucrase-Isomaltase	Protein Coding	51	GC03M164978	9.185455322	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SI
IL4	Interleukin 4	Protein Coding	53	GC05P132673	9.176439285	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL4

TGFB1	Transforming Growth Factor Beta 1	Protein Coding	60	GC19M041301	9.174732208	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TGFB1
CALCA	Calcitonin Related Polypeptide Alpha	Protein Coding	50	GC11M014945	9.166168213	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CALCA
SARDH	Sarcosine Dehydrogenase	Protein Coding	48	GC09M133663	9.150572777	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SARDH
IRS2	Insulin Receptor Substrate 2	Protein Coding	51	GC13M109752	9.141462326	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IRS2
TSHR	Thyroid Stimulating Hormone Receptor	Protein Coding	54	GC14P080954	9.134458542	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TSHR
ABAT	4-Aminobutyrate Aminotransferase	Protein Coding	52	GC16P008674	9.114062309	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABAT
PLA2G7	Phospholipase A2 Group VII	Protein Coding	56	GC06M046704	9.094242096	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLA2G7
PPOX	Protoporphyrinogen Oxidase	Protein Coding	50	GC01P161793	9.073926926	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PPOX
BSND	Barttin CLCNK Type Accessory Subunit Beta	Protein Coding	46	GC01P054998	9.067605019	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BSND
NFE2L2	NFE2 Like BZIP Transcription Factor 2	Protein Coding	57	GC02M177227	9.067396164	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NFE2L2
TH	Tyrosine Hydroxylase	Protein Coding	57	GC11M002163	9.036359787	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TH
GLP1R	Glucagon Like Peptide 1 Receptor	Protein Coding	53	GC06P039048	9.011398315	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GLP1R
B2M	Beta-2-Microglobulin	Protein Coding	56	GC15P044711	9.009315491	https://www.genecards.org/cgi-bin/carddisp.pl?gene=B2M
ABCC4	ATP Binding Cassette Subfamily C Member 4	Protein Coding	52	GC13M095019	9.002803802	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABCC4
FECH	Ferrochelatase	Protein Coding	53	GC18M057544	8.987259865	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FECH

SCNN1B	Sodium Channel Epithelial 1 Subunit Beta	Protein Coding	55	GC16P023278	8.966176987	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SCNN1B
CAV1	Caveolin 1	Protein Coding	55	GC07P116524	8.965511322	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CAV1
PLA2G6	Phospholipase A2 Group VI	Protein Coding	54	GC22M063106	8.922856331	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLA2G6
SLC9A3	Solute Carrier Family 9 Member A3	Protein Coding	54	GC05M000472	8.890376091	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC9A3
KRAS	KRAS Proto-Oncogene, GTPase	Protein Coding	59	GC12M025204	8.88931179	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KRAS
ACSS3	Acyl-CoA Synthetase Short Chain Family Member 3	Protein Coding	44	GC12P080936	8.88329792	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACSS3
PNLIP	Pancreatic Lipase	Protein Coding	55	GC10P116545	8.861320496	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PNLIP
WNK1	WNK Lysine Deficient Protein Kinase 1	Protein Coding	55	GC12P000733	8.852413177	https://www.genecards.org/cgi-bin/carddisp.pl?gene=WNK1
AMACR	Alpha-Methylacyl-CoA Racemase	Protein Coding	51	GC05M033986	8.844797134	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AMACR
TPO	Thyroid Peroxidase	Protein Coding	56	GC02P001374	8.836055756	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TPO
PLTP	Phospholipid Transfer Protein	Protein Coding	51	GC20M045898	8.819312096	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLTP
PLA2G2A	Phospholipase A2 Group IIA	Protein Coding	53	GC01M019975	8.813098907	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLA2G2A
CBLIF	Cobalamin Binding Intrinsic Factor	Protein Coding	50	GC11M059829	8.777448654	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CBLIF
ALOX12	Arachidonate 12-Lipoxygenase, 12S Type	Protein Coding	51	GC17P006995	8.752995491	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALOX12
PEPD	Peptidase D	Protein Coding	52	GC19M033386	8.72979641	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PEPD

MAOB	Monoamine Oxidase B	Protein Coding	51	GC0XM043766	8.728715897	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAOB
SUCLG1	Succinate-CoA Ligase GDP/ADP-Forming Subunit Alpha	Protein Coding	53	GC02M084423	8.726793289	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SUCLG1
NR1H3	Nuclear Receptor Subfamily 1 Group H Member 3	Protein Coding	53	GC11P047248	8.693900108	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NR1H3
ALDOA	Aldolase, Fructose-Bisphosphate A	Protein Coding	55	GC16P030064	8.690598488	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALDOA
TALDO1	Transaldolase 1	Protein Coding	53	GC11P002101	8.67280674	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TALDO1
PIK3C2A	Phosphatidylinositol-4-Phosphate 3-Kinase Catalytic Subunit Type 2 Alpha	Protein Coding	54	GC11M017656	8.672620773	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PIK3C2A
MIR132	MicroRNA 132	RNA Gene	24	GC17M002049	8.668548584	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR132
ALDH7A1	Aldehyde Dehydrogenase 7 Family Member A1	Protein Coding	55	GC05M126541	8.663873672	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALDH7A1
IGF1R	Insulin Like Growth Factor 1 Receptor	Protein Coding	61	GC15P098648	8.65890789	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IGF1R
SERPINA6	Serpin Family A Member 6	Protein Coding	52	GC14M103107	8.658004761	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SERPINA6
MYC	MYC Proto-Oncogene, BHLH Transcription Factor	Protein Coding	59	GC08P127735	8.656543732	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYC
FAS	Fas Cell Surface Death Receptor	Protein Coding	57	GC10P094616	8.649011612	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FAS
HAL	Histidine Ammonia-Lyase	Protein Coding	50	GC12M095972	8.647676468	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HAL
AKR1C3	Aldo-Keto Reductase Family 1 Member C3	Protein Coding	52	GC10P005035	8.643188477	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AKR1C3
VEGFA	Vascular Endothelial Growth Factor A	Protein Coding	56	GC06P043770	8.640114784	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VEGFA

NPPA	Natriuretic Peptide A	Protein Coding	52	GC01M011846	8.623929024	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPPA
IGF2	Insulin Like Growth Factor 2	Protein Coding	55	GC11M004506	8.617035866	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IGF2
NAT1	N-Acetyltransferase 1	Protein Coding	50	GC08P018183	8.583248138	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NAT1
CYB5A	Cytochrome B5 Type A	Protein Coding	50	GC18M074250	8.580019951	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYB5A
SOD2	Superoxide Dismutase 2	Protein Coding	53	GC06M159669	8.579874039	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SOD2
TLR4	Toll Like Receptor 4	Protein Coding	58	GC09P117704	8.57736969	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TLR4
AGK	Acylglycerol Kinase	Protein Coding	47	GC07P141551	8.569777489	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AGK
AGPAT2	1-Acylglycerol-3-Phosphate O-Acyltransferase 2	Protein Coding	52	GC09M136673	8.565602303	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AGPAT2
SRD5A1	Steroid 5 Alpha-Reductase 1	Protein Coding	50	GC05P006633	8.563120842	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SRD5A1
FBN1	Fibrillin 1	Protein Coding	53	GC15M048408	8.536642075	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FBN1
IL5	Interleukin 5	Protein Coding	52	GC05M132541	8.535798073	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL5
GLS	Glutaminase	Protein Coding	56	GC02P190880	8.528938293	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GLS
EDN1	Endothelin 1	Protein Coding	55	GC06P012256	8.526630402	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EDN1
GALC	Galactosylceramidase	Protein Coding	51	GC14M087837	8.512210846	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GALC
MMP9	Matrix Metalloproteinase 9	Protein Coding	61	GC20P046008	8.467338562	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMP9

SPP1	Secreted Phosphoprotein 1	Protein Coding	53	GC04P087975	8.406263351	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SPP1
SOAT1	Sterol O-Acyltransferase 1	Protein Coding	51	GC01P179262	8.406112671	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SOAT1
FGFR1	Fibroblast Growth Factor Receptor 1	Protein Coding	63	GC08M038400	8.392232895	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGFR1
MME	Membrane Metalloendopeptidase	Protein Coding	57	GC03P155024	8.376724243	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MME
FOXO3	Forkhead Box O3	Protein Coding	53	GC06P108559	8.376056671	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FOXO3
GLUL	Glutamate-Ammonia Ligase	Protein Coding	55	GC01M182378	8.333607674	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GLUL
CA2	Carbonic Anhydrase 2	Protein Coding	59	GC08P085463	8.320440292	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CA2
GLA	Galactosidase Alpha	Protein Coding	56	GC0XM101393	8.318837166	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GLA
ALAD	Aminolevulinate Dehydratase	Protein Coding	53	GC09M113386	8.308020592	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALAD
UGT2B15	UDP Glucuronosyltransferase Family 2 Member B15	Protein Coding	50	GC04M068646	8.296926498	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UGT2B15
ACOX1	Acyl-CoA Oxidase 1	Protein Coding	52	GC17M075941	8.251636505	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACOX1
AKR1C2	Aldo-Keto Reductase Family 1 Member C2	Protein Coding	52	GC10M004987	8.24772644	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AKR1C2
IGF2R	Insulin Like Growth Factor 2 Receptor	Protein Coding	52	GC06P159969	8.232765198	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IGF2R
LPA	Lipoprotein(A)	Protein Coding	44	GC06M160531	8.226680756	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LPA
AKR1B1	Aldo-Keto Reductase Family 1 Member B	Protein Coding	53	GC07M134442	8.226289749	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMP9

CLOCK	Clock Circadian Regulator	Protein Coding	51	GC04M055427	8.168092728	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AKR1B1
GPX1	Glutathione Peroxidase 1	Protein Coding	52	GC03M051566	8.151756287	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CLOCK
MIR22	MicroRNA 22	RNA Gene	23	GC17M001713	8.137874603	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GPX1
ALDH1A1	Aldehyde Dehydrogenase 1 Family Member A1	Protein Coding	54	GC09M072900	8.133259773	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR22
COG2	Component Of Oligomeric Golgi Complex 2	Protein Coding	47	GC01P230642	8.130456924	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALDH1A1
UROD	Uroporphyrinogen Decarboxylase	Protein Coding	52	GC01P045458	8.115438461	https://www.genecards.org/cgi-bin/carddisp.pl?gene=COG2
BRCA1	BRCA1 DNA Repair Associated	Protein Coding	56	GC17M043044	8.113157272	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UROD
CLCNKA	Chloride Voltage-Gated Channel Ka	Protein Coding	47	GC01P016018	8.101045609	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BRCA1
EPM2A	EPM2A Glucan Phosphatase, Laforin	Protein Coding	50	GC06M145382	8.040835381	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CLCNKA
JUN	Jun Proto-Oncogene, AP-1 Transcription Factor Subunit	Protein Coding	55	GC01M058780	8.033901215	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPM2A
SLC52A2	Solute Carrier Family 52 Member 2	Protein Coding	46	GC08P144333	8.015874863	https://www.genecards.org/cgi-bin/carddisp.pl?gene=JUN
AHSG	Alpha 2-HS Glycoprotein	Protein Coding	51	GC03P186636	8.000261307	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC52A2
FFAR3	Free Fatty Acid Receptor 3	Protein Coding	44	GC19P073871	7.985510826	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AHSG
DSP	Desmoplakin	Protein Coding	57	GC06P007541	7.967627048	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FFAR3
TNFRSF11	TNF Receptor Superfamily Member 11b	Protein Coding	54	GC08M118923	7.947682381	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DSP

Gene Symbol	Gene Name	Category	Chromosome	Gene ID	RefSeq ID	Accession	URL
ACO1	Aconitase 1	Protein Coding	51	GC09P032374	7.935599327	ne=TNFRSF11B	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACO1
APC	APC Regulator Of WNT Signaling Pathway	Protein Coding	56	GC05P112707	7.932646751	ne=APC	https://www.genecards.org/cgi-bin/carddisp.pl?gene=APC
CASP8	Caspase 8	Protein Coding	59	GC02P201233	7.92381525	ne=CASP8	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CASP8
GHR	Growth Hormone Receptor	Protein Coding	53	GC05P042429	7.920368671	ne=GHR	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GHR
FGFR4	Fibroblast Growth Factor Receptor 4	Protein Coding	59	GC05P177086	7.900533676	ne=FGFR4	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGFR4
LBR	Lamin B Receptor	Protein Coding	54	GC01M225401	7.891428947	ne=LBR	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LBR
TDO2	Tryptophan 2,3-Dioxygenase	Protein Coding	53	GC04P155854	7.886833191	ne=TDO2	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TDO2
NOS2	Nitric Oxide Synthase 2	Protein Coding	56	GC17M027756	7.879232407	ne=NOS2	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NOS2
DBH	Dopamine Beta-Hydroxylase	Protein Coding	59	GC09P133636	7.875431061	ne=DBH	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DBH
GUSB	Glucuronidase Beta	Protein Coding	54	GC07M065960	7.864967823	ne=GUSB	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GUSB
GRIA4	Glutamate Ionotropic Receptor AMPA Type Subunit 4	Protein Coding	56	GC11P105609	7.864396095	ne=GRIA4	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRIA4
PKLR	Pyruvate Kinase L/R	Protein Coding	53	GC01M155289	7.860248566	ne=PKLR	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PKLR
TKT	Transketolase	Protein Coding	52	GC03M053224	7.831721306	ne=TKT	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TKT
TSPO	Translocator Protein	Protein Coding	51	GC22P043151	7.831576824	ne=TSPO	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TSPO
ELANE	Elastase, Neutrophil Expressed	Protein Coding	58	GC19P003656	7.827675819	ne=ELANE	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ELANE

ACSM3	Acyl-CoA Synthetase Medium Chain Family Member 3	Protein Coding	46	GC16P020610	7.801516533	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ELANE
FTH1	Ferritin Heavy Chain 1	Protein Coding	57	GC11M061959	7.793233395	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACSM3
SNCA	Synuclein Alpha	Protein Coding	59	GC04M089724	7.786792278	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FTH1
ATM	ATM Serine/Threonine Kinase	Protein Coding	60	GC11P108222	7.77983284	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SNCA
APOA4	Apolipoprotein A4	Protein Coding	48	GC11M116820	7.776916027	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATM
PIK3R1	Phosphoinositide-3-Kinase Regulatory Subunit 1	Protein Coding	57	GC05P068215	7.765260696	https://www.genecards.org/cgi-bin/carddisp.pl?gene=APOA4
DNMT1	DNA Methyltransferase 1	Protein Coding	59	GC19M010133	7.755319595	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PIK3R1
SUCLA2	Succinate-CoA Ligase ADP-Forming Subunit Beta	Protein Coding	53	GC13M047745	7.749754429	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DNMT1
ICAM1	Intercellular Adhesion Molecule 1	Protein Coding	57	GC19P010749	7.744787693	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SUCLA2
MEN1	Menin 1	Protein Coding	51	GC11M064803	7.738993168	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ICAM1
FTL	Ferritin Light Chain	Protein Coding	52	GC19P048965	7.7378335	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MEN1
OXA1L	OXA1L Mitochondrial Inner Membrane Protein	Protein Coding	45	GC14P022766	7.737726212	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FTL
TPH1	Tryptophan Hydroxylase 1	Protein Coding	52	GC11M018040	7.725982666	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OXA1L
COX4I1	Cytochrome C Oxidase Subunit 4I1	Protein Coding	52	GC16P085798	7.713577747	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TPH1
SLC9A1	Solute Carrier Family 9 Member A1	Protein Coding	57	GC01M027239	7.711806297	https://www.genecards.org/cgi-bin/carddisp.pl?gene=COX4I1

GCH1	GTP Cyclohydrolase 1	Protein Coding	53	GC14M054842	7.711480618	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC9A1
AKR1C1	Aldo-Keto Reductase Family 1 Member C1	Protein Coding	50	GC10P004963	7.708277702	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GCH1
F12	Coagulation Factor XII	Protein Coding	56	GC05M177402	7.694033146	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AKR1C1
ABHD5	Abhydrolase Domain Containing 5, Lysophosphatidic Acid Acyltransferase	Protein Coding	51	GC03P043707	7.663006783	https://www.genecards.org/cgi-bin/carddisp.pl?gene=F12
AMN	Amnion Associated Transmembrane Protein	Protein Coding	47	GC14P102922	7.659276962	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABHD5
NR0B2	Nuclear Receptor Subfamily 0 Group B Member 2	Protein Coding	50	GC01M027236	7.647449017	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AMN
CRAT	Carnitine O-Acetyltransferase	Protein Coding	51	GC09M129094	7.64017868	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NR0B2
ALDH1B1	Aldehyde Dehydrogenase 1 Family Member B1	Protein Coding	50	GC09P038392	7.639844418	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CRAT
AFP	Alpha Fetoprotein	Protein Coding	53	GC04P073431	7.626152992	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALDH1B1
UGT1A5	UDP Glucuronosyltransferase Family 1 Member A5	Protein Coding	40	GC02P233712	7.624723434	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AFP
CTNNB1	Catenin Beta 1	Protein Coding	60	GC03P041194	7.623961449	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UGT1A5
SLC5A8	Solute Carrier Family 5 Member 8	Protein Coding	49	GC12M101155	7.623325348	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTNNB1
AKR1C4	Aldo-Keto Reductase Family 1 Member C4	Protein Coding	53	GC10P005195	7.621516705	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC5A8
ACP5	Acid Phosphatase 5, Tartrate Resistant	Protein Coding	53	GC19M011574	7.61563921	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AKR1C4
CCND1	Cyclin D1	Protein Coding	60	GC11P069641	7.614154339	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACP5

							ne=CCND1
KYAT1	Kynurenine Aminotransferase 1	Protein Coding	47	GC09M128833	7.60359478		https://www.genecards.org/cgi-bin/carddisp.pl?gene=KYAT1
NOS1	Nitric Oxide Synthase 1	Protein Coding	56	GC12M117208	7.60078907		https://www.genecards.org/cgi-bin/carddisp.pl?gene=NOS1
SULT1A3	Sulfotransferase Family 1A Member 3	Protein Coding	43	GC16P030199	7.598351002		https://www.genecards.org/cgi-bin/carddisp.pl?gene=SULT1A3
CYCS	Cytochrome C, Somatic	Protein Coding	55	GC07M025118	7.579985619		https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYCS
ACLY	ATP Citrate Lyase	Protein Coding	53	GC17M041866	7.559963703		https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACLY
CDKN3	Cyclin Dependent Kinase Inhibitor 3	Protein Coding	48	GC14P054398	7.558909893		https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDKN3
JAK2	Janus Kinase 2	Protein Coding	60	GC09P004985	7.554831028		https://www.genecards.org/cgi-bin/carddisp.pl?gene=JAK2
STAT3	Signal Transducer And Activator Of Transcription 3	Protein Coding	61	GC17M042313	7.553854942		https://www.genecards.org/cgi-bin/carddisp.pl?gene=STAT3
HCRT	Hypocretin Neuropeptide Precursor	Protein Coding	46	GC17M051782	7.507509232		https://www.genecards.org/cgi-bin/carddisp.pl?gene=HCRT
SQSTM1	Sequestosome 1	Protein Coding	55	GC05P179806	7.495340824		https://www.genecards.org/cgi-bin/carddisp.pl?gene=SQSTM1
DBT	Dihydroliipoamide Branched Chain Transacylase E2	Protein Coding	49	GC01M100186	7.495174885		https://www.genecards.org/cgi-bin/carddisp.pl?gene=DBT
TNFRSF11A	TNF Receptor Superfamily Member 11a	Protein Coding	54	GC18P062325	7.492922783		https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNFRSF11A
PHYH	Phytanoyl-CoA 2-Hydroxylase	Protein Coding	52	GC10M013277	7.48562479		https://www.genecards.org/cgi-bin/carddisp.pl?gene=PHYH
PYY	Peptide YY	Protein Coding	49	GC17M043952	7.484090805		https://www.genecards.org/cgi-bin/carddisp.pl?gene=PYY
VLDLR	Very Low Density Lipoprotein Receptor	Protein Coding	56	GC09P002611	7.477643013		https://www.genecards.org/cgi-bin/carddisp.pl?gene=VLDLR

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CSF2	Colony Stimulating Factor 2	Protein Coding	51	GC05P132073	7.462800026	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VLDLR
FOXO1	Forkhead Box O1	Protein Coding	56	GC13M040555	7.41369772	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CSF2
TTPA	Alpha Tocopherol Transfer Protein	Protein Coding	47	GC08M063048	7.413542747	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FOXO1
LTC4S	Leukotriene C4 Synthase	Protein Coding	49	GC05P179793	7.400671959	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TTPA
GSTZ1	Glutathione S-Transferase Zeta 1	Protein Coding	48	GC14P077320	7.394896507	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LTC4S
ACACB	Acetyl-CoA Carboxylase Beta	Protein Coding	52	GC12P109116	7.383708	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GSTZ1
CRYAA	Crystallin Alpha A	Protein Coding	52	GC21P043169	7.340756893	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACACB
SLC10A1	Solute Carrier Family 10 Member 1	Protein Coding	51	GC14M069775	7.333871365	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CRYAA
OPLAH	5-Oxoprolinase, ATP-Hydrolysing	Protein Coding	50	GC08M144278	7.333218098	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC10A1
IGF2BP2	Insulin Like Growth Factor 2 mRNA Binding Protein 2	Protein Coding	51	GC03M185643	7.331263065	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OPLAH
CD320	CD320 Molecule	Protein Coding	47	GC19M008302	7.313445091	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IGF2BP2
PTPN11	Protein Tyrosine Phosphatase Non-Receptor Type 11	Protein Coding	61	GC12P112418	7.310684204	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD320
HLA-B	Major Histocompatibility Complex, Class I, B	Protein Coding	52	GC06M071682	7.308247089	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPN11
CCK	Cholecystokinin	Protein Coding	48	GC03M042274	7.304950714	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HLA-B
TBXAS1	Thromboxane A Synthase 1	Protein Coding	56	GC07P139777	7.303420544	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCK
						https://www.genecards.org/cgi-bin/carddisp.pl?gene=TBXAS1

ACY1	Aminoacylase 1	Protein Coding	52	GC03P051983	7.282396793	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TBXAS1
CYP4V2	Cytochrome P450 Family 4 Subfamily V Member 2	Protein Coding	48	GC04P186191	7.213627338	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACY1
KCNJ5	Potassium Inwardly Rectifying Channel Subfamily J Member 5	Protein Coding	53	GC11P128891	7.193699837	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP4V2
MIR29C	MicroRNA 29c	RNA Gene	21	GC01M207811	7.183753967	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNJ5
SLC2A3	Solute Carrier Family 2 Member 3	Protein Coding	55	GC12M007919	7.150427818	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR29C
CBR1	Carbonyl Reductase 1	Protein Coding	51	GC21P036069	7.138096809	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC2A3
IL2	Interleukin 2	Protein Coding	53	GC04M122451	7.137097359	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CBR1
SLC6A3	Solute Carrier Family 6 Member 3	Protein Coding	57	GC05M001392	7.135263443	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL2
PLA2G1B	Phospholipase A2 Group IB	Protein Coding	51	GC12M120322	7.106545925	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC6A3
RORA	RAR Related Orphan Receptor A	Protein Coding	55	GC15M060488	7.092875957	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLA2G1B
SULT2A1	Sulfotransferase Family 2A Member 1	Protein Coding	50	GC19M047870	7.092458248	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RORA
IL13	Interleukin 13	Protein Coding	50	GC05P132656	7.088688374	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SULT2A1
PGK1	Phosphoglycerate Kinase 1	Protein Coding	56	GC0XP078032	7.080644131	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL13
CD4	CD4 Molecule	Protein Coding	57	GC12P006786	7.079792976	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PGK1
TYR	Tyrosinase	Protein Coding	55	GC11P089177	7.075667381	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD4
						https://www.genecards.org/cgi-bin/carddisp.pl?gene=TYR

FAAH	Fatty Acid Amide Hydrolase	Protein Coding	54	GC01P046394	7.074492455	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FAAH
CCL5	C-C Motif Chemokine Ligand 5	Protein Coding	51	GC17M035871	7.05864048	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCL5
HMBS	Hydroxymethylbilane Synthase	Protein Coding	51	GC11P119084	7.051350594	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HMBS
KCNJ10	Potassium Inwardly Rectifying Channel Subfamily J Member 10	Protein Coding	52	GC01M159998	7.050767422	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNJ10
CACNA1S	Calcium Voltage-Gated Channel Subunit Alpha1 S	Protein Coding	55	GC01M201008	7.044938564	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CACNA1S
EIF2AK3	Eukaryotic Translation Initiation Factor 2 Alpha Kinase 3	Protein Coding	55	GC02M088556	7.033459187	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EIF2AK3
ACSL4	Acyl-CoA Synthetase Long Chain Family Member 4	Protein Coding	52	GC0XM109624	7.020869732	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACSL4
PTS	6-Pyruvoyltetrahydropterin Synthase	Protein Coding	51	GC11P112226	6.987995625	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTS
ACTB	Actin Beta	Protein Coding	56	GC07M005527	6.978267193	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACTB
FBP2	Fructose-Bisphosphatase 2	Protein Coding	50	GC09M094558	6.97452116	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FBP2
SULT1A2	Sulfotransferase Family 1A Member 2	Protein Coding	48	GC16M028591	6.969522476	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SULT1A2
FXN	Frataxin	Protein Coding	52	GC09P069035	6.963536739	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FXN
FGFR3	Fibroblast Growth Factor Receptor 3	Protein Coding	63	GC04P001795	6.953905582	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGFR3
ALAS2	5'-Aminolevulinate Synthase 2	Protein Coding	51	GC0XM055009	6.94052887	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALAS2
SULT1E1	Sulfotransferase Family 1E Member 1	Protein Coding	50	GC04M069823	6.935936451	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SULT1E1

GOT1	Glutamic-Oxaloacetic Transaminase 1	Protein Coding	52	GC10M099396	6.932769299	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SULT1E1
FTCD-AS1	FTCD Antisense RNA 1	RNA Gene	18	GC21P046151	6.917957783	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GOT1
PARP1	Poly(ADP-Ribose) Polymerase 1	Protein Coding	58	GC01M226360	6.91354847	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FTCD-AS1
TARDBP	TAR DNA Binding Protein	Protein Coding	53	GC01P011013	6.906384468	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PARP1
IL1A	Interleukin 1 Alpha	Protein Coding	52	GC02M112773	6.887263298	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TARDBP
HPGD	15-Hydroxyprostaglandin Dehydrogenase	Protein Coding	53	GC04M174490	6.878279209	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL1A
CCR6	C-C Motif Chemokine Receptor 6	Protein Coding	51	GC06P167111	6.876591682	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HPGD
CSN1S1	Casein Alpha S1	Protein Coding	43	GC04P069932	6.874129295	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCR6
APOC1	Apolipoprotein C1	Protein Coding	46	GC19P044914	6.873025417	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CSN1S1
IDO1	Indoleamine 2,3-Dioxygenase 1	Protein Coding	53	GC08P039891	6.860894203	https://www.genecards.org/cgi-bin/carddisp.pl?gene=APOC1
FOS	Fos Proto-Oncogene, AP-1 Transcription Factor Subunit	Protein Coding	57	GC14P075278	6.856826782	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IDO1
PIK3CG	Phosphatidylinositol-4,5-Bisphosphate 3-Kinase Catalytic Subunit Gamma	Protein Coding	55	GC07P106865	6.855944633	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FOS
ADORA2A	Adenosine A2a Receptor	Protein Coding	53	GC22P024417	6.848574162	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PIK3CG
MAPK14	Mitogen-Activated Protein Kinase 14	Protein Coding	58	GC06P092286	6.802408218	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADORA2A
GUCY2C	Guanylate Cyclase 2C	Protein Coding	52	GC12M014612	6.80224371	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAPK14
						https://www.genecards.org/cgi-bin/carddisp.pl?gene=GUCY2C

MAPK10	Mitogen-Activated Protein Kinase 10	Protein Coding	56	GC04M085990	6.799727917	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAPK10
AGT	Angiotensinogen	Protein Coding	56	GC01M230690	6.794569969	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AGT
IL18	Interleukin 18	Protein Coding	50	GC11M112143	6.792854786	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL18
BPGM	Bisphosphoglycerate Mutase	Protein Coding	52	GC07P134646	6.783220291	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BPGM
SLPI	Secretory Leukocyte Peptidase Inhibitor	Protein Coding	47	GC20M045252	6.7794981	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLPI
LIAS	Lipoic Acid Synthetase	Protein Coding	48	GC04P039499	6.778037071	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LIAS
AMT	Aminomethyltransferase	Protein Coding	51	GC03M051568	6.773910046	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AMT
GPI	Glucose-6-Phosphate Isomerase	Protein Coding	55	GC19P034359	6.765838146	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GPI
MAPK8	Mitogen-Activated Protein Kinase 8	Protein Coding	57	GC10P048306	6.759390831	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAPK8
BRAF	B-Raf Proto-Oncogene, Serine/Threonine Kinase	Protein Coding	60	GC07M140742	6.748792171	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BRAF
YARS2	Tyrosyl-TRNA Synthetase 2	Protein Coding	51	GC12M032819	6.745001793	https://www.genecards.org/cgi-bin/carddisp.pl?gene=YARS2
RNASE3	Ribonuclease A Family Member 3	Protein Coding	46	GC14P020891	6.725999355	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RNASE3
GSK3B	Glycogen Synthase Kinase 3 Beta	Protein Coding	57	GC03M119821	6.701512337	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GSK3B
BMP2	Bone Morphogenetic Protein 2	Protein Coding	53	GC20P006767	6.691226959	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BMP2
MMP3	Matrix Metallopeptidase 3	Protein Coding	57	GC11M102835	6.690543175	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMP3

FABP1	Fatty Acid Binding Protein 1	Protein Coding	49	GC02M088122	6.688127518	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FABP1
ALDH3A1	Aldehyde Dehydrogenase 3 Family Member A1	Protein Coding	52	GC17M019737	6.668470383	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALDH3A1
HSPG2	Heparan Sulfate Proteoglycan 2	Protein Coding	54	GC01M021822	6.655029297	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSPG2
MMP2	Matrix Metalloproteinase 2	Protein Coding	60	GC16P055390	6.633100986	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMP2
ERCC1	ERCC Excision Repair 1, Endonuclease Non-Catalytic Subunit	Protein Coding	52	GC19M070729	6.630684376	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ERCC1
CD38	CD38 Molecule	Protein Coding	53	GC04P019223	6.6181674	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD38
TIMP1	TIMP Metalloproteinase Inhibitor 1	Protein Coding	52	GC0XP047711	6.613132477	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TIMP1
GMPS	Guanine Monophosphate Synthase	Protein Coding	51	GC03P155870	6.612122536	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GMPS
INPPL1	Inositol Polyphosphate Phosphatase Like 1	Protein Coding	55	GC11P072223	6.6092906	https://www.genecards.org/cgi-bin/carddisp.pl?gene=INPPL1
TSC2	TSC Complex Subunit 2	Protein Coding	56	GC16P013513	6.607493401	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TSC2
STS	Steroid Sulfatase	Protein Coding	52	GC0XP007146	6.60575819	https://www.genecards.org/cgi-bin/carddisp.pl?gene=STS
PAX4	Paired Box 4	Protein Coding	47	GC07M127610	6.605308533	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PAX4
ALDH1A2	Aldehyde Dehydrogenase 1 Family Member A2	Protein Coding	55	GC15M121963	6.603302479	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALDH1A2
PTH1LH	Parathyroid Hormone Like Hormone	Protein Coding	52	GC12M027959	6.598110199	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTH1LH
BAAT	Bile Acid-CoA:Amino Acid N-Acyltransferase	Protein Coding	50	GC09M101354	6.590001106	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BAAT

CHKA	Choline Kinase Alpha	Protein Coding	49	GC11M068052	6.575095654	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BAAT
ELN	Elastin	Protein Coding	50	GC07P074027	6.564837456	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHKA
WDR72	WD Repeat Domain 72	Protein Coding	43	GC15M125660	6.55697155	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ELN
HTT	Huntingtin	Protein Coding	51	GC04P003041	6.549586296	https://www.genecards.org/cgi-bin/carddisp.pl?gene=WDR72
STAT1	Signal Transducer And Activator Of Transcription 1	Protein Coding	60	GC02M190908	6.545604706	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HTT
ALOX15	Arachidonate 15-Lipoxygenase	Protein Coding	52	GC17M004630	6.537812233	https://www.genecards.org/cgi-bin/carddisp.pl?gene=STAT1
FFAR4	Free Fatty Acid Receptor 4	Protein Coding	47	GC10P093566	6.531475067	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALOX15
CSF1	Colony Stimulating Factor 1	Protein Coding	51	GC01P109911	6.528945923	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FFAR4
PRKN	Parkin RBR E3 Ubiquitin Protein Ligase	Protein Coding	53	GC06M161348	6.517373085	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CSF1
SOAT2	Sterol O-Acyltransferase 2	Protein Coding	50	GC12P053103	6.513618469	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRKN
NTS	Neurotensin	Protein Coding	48	GC12P085876	6.508972645	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SOAT2
HSD17B1	Hydroxysteroid 17-Beta Dehydrogenase 1	Protein Coding	48	GC17P061989	6.502941608	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NTS
KNG1	Kininogen 1	Protein Coding	55	GC03P186717	6.496859074	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSD17B1
HBA1	Hemoglobin Subunit Alpha 1	Protein Coding	49	GC16P013428	6.478796959	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KNG1
ESR2	Estrogen Receptor 2	Protein Coding	56	GC14M064084	6.464812279	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HBA1
						https://www.genecards.org/cgi-bin/carddisp.pl?gene=ESR2

ERBB2	Erb-B2 Receptor Tyrosine Kinase 2	Protein Coding	62	GC17P039687	6.462425709	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ERBB2
HP	Haptoglobin	Protein Coding	52	GC16P072372	6.458934307	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HP
PTGIS	Prostaglandin I2 Synthase	Protein Coding	52	GC20M049503	6.456087112	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTGIS
ATF4	Activating Transcription Factor 4	Protein Coding	52	GC22P039519	6.442789555	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATF4
THBD	Thrombomodulin	Protein Coding	53	GC20M023026	6.435276985	https://www.genecards.org/cgi-bin/carddisp.pl?gene=THBD
DIO2	Iodothyronine Deiodinase 2	Protein Coding	46	GC14M080197	6.413453579	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DIO2
PDK1	Pyruvate Dehydrogenase Kinase 1	Protein Coding	53	GC02P172555	6.402394295	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDK1
IFNB1	Interferon Beta 1	Protein Coding	50	GC09M021077	6.401349068	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IFNB1
LRP1	LDL Receptor Related Protein 1	Protein Coding	53	GC12P057128	6.399954319	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LRP1
VCP	Valosin Containing Protein	Protein Coding	57	GC09M035056	6.39056921	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VCP
MOGS	Mannosyl-Oligosaccharide Glucosidase	Protein Coding	50	GC02M074461	6.386434078	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MOGS
MIR3944	MicroRNA 3944	RNA Gene	15	GC10M133371	6.384291649	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR3944
GPAM	Glycerol-3-Phosphate Acyltransferase, Mitochondrial	Protein Coding	50	GC10M112148	6.383892059	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GPAM
PPT1	Palmitoyl-Protein Thioesterase 1	Protein Coding	53	GC01M040103	6.374232292	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PPT1
CTSD	Cathepsin D	Protein Coding	59	GC11M001752	6.372982979	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTSD

HRAS	HRas Proto-Oncogene, GTPase	Protein Coding	59	GC11M004421	6.359884739	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTSD
PLAT	Plasminogen Activator, Tissue Type	Protein Coding	57	GC08M042174	6.354998589	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HRAS
GRIA3	Glutamate Ionotropic Receptor AMPA Type Subunit 3	Protein Coding	58	GC0XP123184	6.331629753	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLAT
AVP	Arginine Vasopressin	Protein Coding	51	GC20M003082	6.322710514	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRIA3
EGFR	Epidermal Growth Factor Receptor	Protein Coding	62	GC07P055019	6.309800625	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AVP
PLG	Plasminogen	Protein Coding	56	GC06P160702	6.293350697	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EGFR
ACHE	Acetylcholinesterase (Cartwright Blood Group)	Protein Coding	53	GC07M100889	6.264330864	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLG
CASP3	Caspase 3	Protein Coding	57	GC04M184627	6.237726212	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACHE
ST3GAL4	ST3 Beta-Galactoside Alpha-2,3-Sialyltransferase 4	Protein Coding	50	GC11P126355	6.23571682	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CASP3
SLC30A8	Solute Carrier Family 30 Member 8	Protein Coding	48	GC08P116950	6.219080925	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ST3GAL4
DLAT	Dihydroliipoamide S-Acetyltransferase	Protein Coding	53	GC11P112026	6.217043877	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC30A8
PDGFRB	Platelet Derived Growth Factor Receptor Beta	Protein Coding	60	GC05M150113	6.213683605	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DLAT
GYG1	Glycogenin 1	Protein Coding	53	GC03P148991	6.206664085	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDGFRB
GPHN	Gephyrin	Protein Coding	55	GC14P066507	6.201871395	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GYG1
ALDH3B1	Aldehyde Dehydrogenase 3 Family Member B1	Protein Coding	47	GC11P071077	6.159162521	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GPHN
						https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALDH3B1

PIEZO2	Piezo Type Mechanosensitive Ion Channel Component 2	Protein Coding	43	GC18M010670	6.156918049	ne=ALDH3B1 https://www.genecards.org/cgi-bin/carddisp.pl?gene=PIEZO2
HTR1A	5-Hydroxytryptamine Receptor 1A	Protein Coding	53	GC05M063960	6.154148102	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HTR1A
UGT2B17	UDP Glucuronosyltransferase Family 2 Member B17	Protein Coding	47	GC04M068537	6.152544975	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UGT2B17
RUNX2	RUNX Family Transcription Factor 2	Protein Coding	53	GC06P092371	6.151573658	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RUNX2
ALOX5AP	Arachidonate 5-Lipoxygenase Activating Protein	Protein Coding	51	GC13P030713	6.141064167	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALOX5AP
PHGDH	Phosphoglycerate Dehydrogenase	Protein Coding	57	GC01P119660	6.127547741	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PHGDH
WWOX	WW Domain Containing Oxidoreductase	Protein Coding	52	GC16P078099	6.116097927	https://www.genecards.org/cgi-bin/carddisp.pl?gene=WWOX
ALDH1A3	Aldehyde Dehydrogenase 1 Family Member A3	Protein Coding	52	GC15P100877	6.111147881	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALDH1A3
PLCB1	Phospholipase C Beta 1	Protein Coding	53	GC20P008061	6.108633518	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLCB1
HSD3B1	Hydroxy-Delta-5-Steroid Dehydrogenase, 3 Beta- And Steroid Delta-Isomerase 1	Protein Coding	49	GC01P119507	6.108185291	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSD3B1
HMGA1	High Mobility Group AT-Hook 1	Protein Coding	53	GC06P092259	6.101529121	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HMGA1
ESRRA	Estrogen Related Receptor Alpha	Protein Coding	53	GC11P064305	6.093959808	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ESRRA
FLT3	Fms Related Receptor Tyrosine Kinase 3	Protein Coding	60	GC13M028003	6.085923672	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FLT3
CPT1B	Carnitine Palmitoyltransferase 1B	Protein Coding	51	GC22M061624	6.08046484	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CPT1B
GFAP	Glial Fibrillary Acidic Protein	Protein Coding	55	GC17M051925	6.074894428	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GFAP

CHAT	Choline O-Acetyltransferase	Protein Coding	55	GC10P049609	6.072665691	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GFAP
DRD2	Dopamine Receptor D2	Protein Coding	56	GC11M113409	6.065560818	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHAT
ABCC3	ATP Binding Cassette Subfamily C Member 3	Protein Coding	53	GC17P050634	6.057796955	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DRD2
SLC7A5	Solute Carrier Family 7 Member 5	Protein Coding	51	GC16M087830	6.049738884	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABCC3
NNMT	Nicotinamide N-Methyltransferase	Protein Coding	51	GC11P114257	6.028770924	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC7A5
FABP5	Fatty Acid Binding Protein 5	Protein Coding	49	GC08P081282	6.027059078	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NNMT
F9	Coagulation Factor IX	Protein Coding	54	GC0XP139530	6.001158714	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FABP5
AGTR1	Angiotensin II Receptor Type 1	Protein Coding	58	GC03P148697	5.997434139	https://www.genecards.org/cgi-bin/carddisp.pl?gene=F9
AIFM1	Apoptosis Inducing Factor Mitochondria Associated 1	Protein Coding	56	GC0XM130129	5.993622303	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AGTR1
TG	Thyroglobulin	Protein Coding	51	GC08P132866	5.986973286	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AIFM1
LOX	Lysyl Oxidase	Protein Coding	54	GC05M122063	5.978069305	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TG
SCP2	Sterol Carrier Protein 2	Protein Coding	52	GC01P052927	5.971069813	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LOX
FOLH1	Folate Hydrolase 1	Protein Coding	54	GC11M099394	5.953541756	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SCP2
ANXA5	Annexin A5	Protein Coding	52	GC04M121667	5.934454441	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FOLH1
F3	Coagulation Factor III, Tissue Factor	Protein Coding	52	GC01M094610	5.908566475	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ANXA5

CREB1	CAMP Responsive Element Binding Protein 1	Protein Coding	56	GC02P207529	5.901594639	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CREB1
MAP2K1	Mitogen-Activated Protein Kinase Kinase 1	Protein Coding	60	GC15P066386	5.901299477	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAP2K1
HGSNAT	Heparan-Alpha-Glucosaminide N-Acetyltransferase	Protein Coding	43	GC08P043140	5.899586678	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HGSNAT
CCL11	C-C Motif Chemokine Ligand 11	Protein Coding	52	GC17P034285	5.89659977	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCL11
SST	Somatostatin	Protein Coding	47	GC03M187668	5.892080307	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SST
ABCB7	ATP Binding Cassette Subfamily B Member 7	Protein Coding	50	GC0XM075053	5.879004955	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABCB7
NFKBIA	NFKB Inhibitor Alpha	Protein Coding	57	GC14M035401	5.857986927	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NFKBIA
ASNS	Asparagine Synthetase (Glutamine-Hydrolyzing)	Protein Coding	54	GC07M097854	5.841819763	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ASNS
HNRNPA1	Heterogeneous Nuclear Ribonucleoprotein A1	Protein Coding	55	GC12P054280	5.838124752	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HNRNPA1
ARSH	Arylsulfatase Family Member H	Protein Coding	39	GC0XP003006	5.814909458	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARSH
UGT2B4	UDP Glucuronosyltransferase Family 2 Member B4	Protein Coding	47	GC04M069484	5.801847935	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UGT2B4
GAD1	Glutamate Decarboxylase 1	Protein Coding	56	GC02P170813	5.800939083	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GAD1
GLO1	Glyoxalase I	Protein Coding	52	GC06M071882	5.783227921	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GLO1
TPH2	Tryptophan Hydroxylase 2	Protein Coding	56	GC12P071938	5.7809062	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TPH2
CTSA	Cathepsin A	Protein Coding	53	GC20P045890	5.778818607	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTSA

CRH	Corticotropin Releasing Hormone	Protein Coding	50	GC08M066176	5.773647785	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTSA
EP300	E1A Binding Protein P300	Protein Coding	59	GC22P045272	5.772609711	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CRH
FGF2	Fibroblast Growth Factor 2	Protein Coding	52	GC04P122826	5.771065235	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EP300
MGLL	Monoglyceride Lipase	Protein Coding	51	GC03M127689	5.765919685	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGF2
MAPK3	Mitogen-Activated Protein Kinase 3	Protein Coding	56	GC16M038440	5.753620148	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MGLL
ABCC6	ATP Binding Cassette Subfamily C Member 6	Protein Coding	53	GC16M016148	5.726374149	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAPK3
AGPAT1	1-Acylglycerol-3-Phosphate O-Acyltransferase 1	Protein Coding	47	GC06M032168	5.723912716	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABCC6
DMD	Dystrophin	Protein Coding	52	GC0XM031097	5.719425678	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AGPAT1
SULT2B1	Sulfotransferase Family 2B Member 1	Protein Coding	52	GC19P048552	5.709708691	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DMD
MET	MET Proto-Oncogene, Receptor Tyrosine Kinase	Protein Coding	61	GC07P116672	5.706713676	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SULT2B1
MAPT	Microtubule Associated Protein Tau	Protein Coding	57	GC17P045894	5.706644535	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MET
PTPN22	Protein Tyrosine Phosphatase Non-Receptor Type 22	Protein Coding	54	GC01M113813	5.706405664	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAPT
PGAM2	Phosphoglycerate Mutase 2	Protein Coding	51	GC07M044062	5.703668118	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPN22
EGF	Epidermal Growth Factor	Protein Coding	58	GC04P109912	5.701561451	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PGAM2
ACSM1	Acyl-CoA Synthetase Medium Chain Family Member 1	Protein Coding	46	GC16M020634	5.699780464	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EGF
						https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACSM1

PSEN1	Presenilin 1	Protein Coding	60	GC14P073136	5.696412563	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PSEN1
F5	Coagulation Factor V	Protein Coding	53	GC01M169511	5.685031414	https://www.genecards.org/cgi-bin/carddisp.pl?gene=F5
SLC5A4	Solute Carrier Family 5 Member 4	Protein Coding	46	GC22M032218	5.675738335	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC5A4
NT5E	5'-Nucleotidase Ecto	Protein Coding	59	GC06P085449	5.674291611	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NT5E
DCK	Deoxycytidine Kinase	Protein Coding	50	GC04P070992	5.673641205	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DCK
SCN4A	Sodium Voltage-Gated Channel Alpha Subunit 4	Protein Coding	52	GC17M063938	5.664630413	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SCN4A
THRA	Thyroid Hormone Receptor Alpha	Protein Coding	55	GC17P040058	5.65968132	https://www.genecards.org/cgi-bin/carddisp.pl?gene=THRA
HLA-DRB1	Major Histocompatibility Complex, Class II, DR Beta 1	Protein Coding	53	GC06M071772	5.655965805	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HLA-DRB1
HDAC9	Histone Deacetylase 9	Protein Coding	56	GC07P018086	5.649218082	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HDAC9
CREBBP	CREB Binding Protein	Protein Coding	60	GC16M008258	5.642336845	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CREBBP
KARS1	Lysyl-TRNA Synthetase 1	Protein Coding	52	GC16M075800	5.635137081	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KARS1
EIF2S1	Eukaryotic Translation Initiation Factor 2 Subunit Alpha	Protein Coding	50	GC14P067359	5.618702412	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EIF2S1
FABP3	Fatty Acid Binding Protein 3	Protein Coding	50	GC01M031365	5.583105087	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FABP3
LPXN	Leupaxin	Protein Coding	47	GC11M099445	5.580239773	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LPXN
VDAC1	Voltage Dependent Anion Channel 1	Protein Coding	53	GC05M133975	5.569249153	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VDAC1

EHMT2	Euchromatic Histone Lysine Methyltransferase 2	Protein Coding	52	GC06M031879	5.56857872	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EHMT2
HNMT	Histamine N-Methyltransferase	Protein Coding	52	GC02P137964	5.568031788	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HNMT
IL1RN	Interleukin 1 Receptor Antagonist	Protein Coding	57	GC02P123802	5.564380646	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL1RN
HLA-A	Major Histocompatibility Complex, Class I, A	Protein Coding	52	GC06P092113	5.557308197	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HLA-A
FGFR2	Fibroblast Growth Factor Receptor 2	Protein Coding	63	GC10M121478	5.551764965	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGFR2
SMARCA4	SWI/SNF Related, Matrix Associated, Actin Dependent Regulator Of Chromatin, Subfamily A, Member 4	Protein Coding	57	GC19P010932	5.540520191	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SMARCA4
GNRH1	Gonadotropin Releasing Hormone 1	Protein Coding	47	GC08M025419	5.540391922	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GNRH1
ARNT	Aryl Hydrocarbon Receptor Nuclear Translocator	Protein Coding	51	GC01M150809	5.535038948	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARNT
ANPEP	Alanyl Aminopeptidase, Membrane	Protein Coding	57	GC15M089784	5.533632755	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ANPEP
PRKCA	Protein Kinase C Alpha	Protein Coding	57	GC17P066302	5.513727188	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRKCA
CFH	Complement Factor H	Protein Coding	54	GC01P196621	5.510847569	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CFH
SMPD2	Sphingomyelin Phosphodiesterase 2	Protein Coding	47	GC06P109440	5.505710602	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SMPD2
KIT	KIT Proto-Oncogene, Receptor Tyrosine Kinase	Protein Coding	60	GC04P054657	5.501556873	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KIT
TERT	Telomerase Reverse Transcriptase	Protein Coding	58	GC05M001253	5.497232914	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TERT
MBOAT7	Membrane Bound O-Acyltransferase Domain Containing 7	Protein Coding	46	GC19M054173	5.496452332	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MBOAT7

TK1	Thymidine Kinase 1	Protein Coding	52	GC17M078175	5.495685577	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MBOAT7
MTM1	Myotubularin 1	Protein Coding	50	GC0XP150562	5.492345333	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TK1
SPTLC1	Serine Palmitoyltransferase Long Chain Base Subunit 1	Protein Coding	53	GC09M096508	5.490951538	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MTM1
NFKB1	Nuclear Factor Kappa B Subunit 1	Protein Coding	60	GC04P102501	5.488479137	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SPTLC1
ERCC5	ERCC Excision Repair 5, Endonuclease	Protein Coding	51	GC13P102845	5.477799416	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NFKB1
SP1	Sp1 Transcription Factor	Protein Coding	53	GC12P053380	5.475884914	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ERCC5
HNRNPK	Heterogeneous Nuclear Ribonucleoprotein K	Protein Coding	52	GC09M096203	5.475253105	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SP1
NPPB	Natriuretic Peptide B	Protein Coding	50	GC01M011858	5.447532177	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HNRNPK
TNFRSF1B	TNF Receptor Superfamily Member 1B	Protein Coding	56	GC01P012301	5.443855286	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPPB
SLC22A2	Solute Carrier Family 22 Member 2	Protein Coding	50	GC06M160195	5.439086437	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNFRSF1B
SLC25A3	Solute Carrier Family 25 Member 3	Protein Coding	51	GC12P098593	5.434689522	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC22A2
ABL1	ABL Proto-Oncogene 1, Non-Receptor Tyrosine Kinase	Protein Coding	59	GC09P130713	5.431687832	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC25A3
SCARB2	Scavenger Receptor Class B Member 2	Protein Coding	53	GC04M076158	5.430082798	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABL1
ENPP2	Ectonucleotide Pyrophosphatase/Phosphodiesterase 2	Protein Coding	52	GC08M119556	5.429513454	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SCARB2
DNM2	Dynamin 2	Protein Coding	56	GC19P010718	5.426211834	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENPP2

ENO3	Enolase 3	Protein Coding	55	GC17P004948	5.420696259	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENO3
IGFBP2	Insulin Like Growth Factor Binding Protein 2	Protein Coding	51	GC02P216632	5.415290833	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IGFBP2
AGA	Aspartylglucosaminidase	Protein Coding	52	GC04M177430	5.402294636	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AGA
UROS	Uroporphyrinogen III Synthase	Protein Coding	48	GC10M125784	5.398243904	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UROS
PDE5A	Phosphodiesterase 5A	Protein Coding	52	GC04M119494	5.394932747	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDE5A
BLVRB	Biliverdin Reductase B	Protein Coding	46	GC19M040447	5.39385891	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BLVRB
SERPINC1	Serpin Family C Member 1	Protein Coding	56	GC01M174653	5.383127689	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SERPINC1
PLA2G5	Phospholipase A2 Group V	Protein Coding	48	GC01P020028	5.379155159	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLA2G5
CD40LG	CD40 Ligand	Protein Coding	57	GC0XP136649	5.369486809	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD40LG
NCOA2	Nuclear Receptor Coactivator 2	Protein Coding	52	GC08M070109	5.368606567	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NCOA2
CEL	Carboxyl Ester Lipase	Protein Coding	52	GC09P133061	5.360735893	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CEL
ADH5	Alcohol Dehydrogenase 5 (Class III), Chi Polypeptide	Protein Coding	53	GC04M099070	5.359493732	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADH5
ACSL1	Acyl-CoA Synthetase Long Chain Family Member 1	Protein Coding	52	GC04M184755	5.358801365	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACSL1
VWF	Von Willebrand Factor	Protein Coding	55	GC12M005949	5.354763508	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VWF
FSHR	Follicle Stimulating Hormone Receptor	Protein Coding	54	GC02M048962	5.346429825	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FSHR

SAA1	Serum Amyloid A1	Protein Coding	46	GC11P018579	5.33243227	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SAA1
PSTPIP1	Proline-Serine-Threonine Phosphatase Interacting Protein 1	Protein Coding	50	GC15P076993	5.325975895	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PSTPIP1
PDHB	Pyruvate Dehydrogenase E1 Subunit Beta	Protein Coding	52	GC03M058428	5.320480824	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDHB
DAO	D-Amino Acid Oxidase	Protein Coding	51	GC12P108859	5.318780422	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DAO
SHC1	SHC Adaptor Protein 1	Protein Coding	50	GC01M154962	5.312389851	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SHC1
PTH1R	Parathyroid Hormone 1 Receptor	Protein Coding	57	GC03P046877	5.307143688	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTH1R
GRIN2A	Glutamate Ionotropic Receptor NMDA Type Subunit 2A	Protein Coding	59	GC16M009753	5.30063343	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRIN2A
FABP12	Fatty Acid Binding Protein 12	Protein Coding	38	GC08M081524	5.29920435	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FABP12
IL6R	Interleukin 6 Receptor	Protein Coding	57	GC01P154405	5.290779114	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL6R
RAD51	RAD51 Recombinase	Protein Coding	57	GC15P040694	5.285461426	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RAD51
HSP90AA1	Heat Shock Protein 90 Alpha Family Class A Member 1	Protein Coding	57	GC14M102080	5.282570362	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSP90AA1
STAT6	Signal Transducer And Activator Of Transcription 6	Protein Coding	57	GC12M057095	5.278360844	https://www.genecards.org/cgi-bin/carddisp.pl?gene=STAT6
APEX1	Apurinic/Apyrimidinic Endodeoxyribonuclease 1	Protein Coding	52	GC14P020455	5.276880264	https://www.genecards.org/cgi-bin/carddisp.pl?gene=APEX1
SLC22A12	Solute Carrier Family 22 Member 12	Protein Coding	51	GC11P064609	5.276699543	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC22A12
TP63	Tumor Protein P63	Protein Coding	53	GC03P189598	5.272655487	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TP63

DDIT3	DNA Damage Inducible Transcript 3	Protein Coding	52	GC12M057516	5.258716583	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DDIT3
APOH	Apolipoprotein H	Protein Coding	51	GC17M066212	5.254735947	https://www.genecards.org/cgi-bin/carddisp.pl?gene=APOH
KMO	Kynurenine 3-Monooxygenase	Protein Coding	53	GC01P241532	5.254042149	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KMO
CTSB	Cathepsin B	Protein Coding	59	GC08M011842	5.253155708	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTSB
SRC	SRC Proto-Oncogene, Non-Receptor Tyrosine Kinase	Protein Coding	58	GC20P037344	5.242369652	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SRC
DGKB	Diacylglycerol Kinase Beta	Protein Coding	50	GC07M014145	5.21872282	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DGKB
GATA6	GATA Binding Protein 6	Protein Coding	53	GC18P022169	5.218309879	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GATA6
IL3	Interleukin 3	Protein Coding	52	GC05P132060	5.218032837	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL3
CD46	CD46 Molecule	Protein Coding	55	GC01P207752	5.215385437	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD46
F10	Coagulation Factor X	Protein Coding	57	GC13P113122	5.205245495	https://www.genecards.org/cgi-bin/carddisp.pl?gene=F10
FLNA	Filamin A	Protein Coding	55	GC0XM154348	5.204764843	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FLNA
ACOT1	Acyl-CoA Thioesterase 1	Protein Coding	42	GC14P073493	5.202662945	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACOT1
PIK3CB	Phosphatidylinositol-4,5-Bisphosphate 3-Kinase Catalytic Subunit Beta	Protein Coding	55	GC03M138652	5.201896667	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PIK3CB
CDKN2A	Cyclin Dependent Kinase Inhibitor 2A	Protein Coding	57	GC09M021967	5.197295666	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDKN2A
ALOX15B	Arachidonate 15-Lipoxygenase Type B	Protein Coding	48	GC17P008039	5.185217857	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALOX15B

GSK3A	Glycogen Synthase Kinase 3 Alpha	Protein Coding	56	GC19M070637	5.179674149	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALOX15B
AQP2	Aquaporin 2	Protein Coding	53	GC12P049950	5.167989254	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GSK3A
RPS6KB1	Ribosomal Protein S6 Kinase B1	Protein Coding	55	GC17P059893	5.164863586	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AQP2
CXCL10	C-X-C Motif Chemokine Ligand 10	Protein Coding	51	GC04M076021	5.147573948	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPS6KB1
APBB1	Amyloid Beta Precursor Protein Binding Family B Member 1	Protein Coding	51	GC11M006936	5.13942337	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CXCL10
FDX1	Ferredoxin 1	Protein Coding	45	GC11P110429	5.134989262	https://www.genecards.org/cgi-bin/carddisp.pl?gene=APBB1
CD44	CD44 Molecule (Indian Blood Group)	Protein Coding	55	GC11P035139	5.127356052	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FDX1
IL4I1	Interleukin 4 Induced 1	Protein Coding	46	GC19M070913	5.122427464	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD44
IL17A	Interleukin 17A	Protein Coding	50	GC06P052186	5.119236469	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL4I1
AOC3	Amine Oxidase Copper Containing 3	Protein Coding	52	GC17P042851	5.119176865	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL17A
KAT5	Lysine Acetyltransferase 5	Protein Coding	57	GC11P065711	5.108136654	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AOC3
HGF	Hepatocyte Growth Factor	Protein Coding	58	GC07M081699	5.10415411	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KAT5
XRCC1	X-Ray Repair Cross Complementing 1	Protein Coding	51	GC19M043543	5.097961426	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HGF
FFAR1	Free Fatty Acid Receptor 1	Protein Coding	47	GC19P073870	5.093933582	https://www.genecards.org/cgi-bin/carddisp.pl?gene=XRCC1
EPAS1	Endothelial PAS Domain Protein 1	Protein Coding	57	GC02P046293	5.093504906	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FFAR1

ABCC5	ATP Binding Cassette Subfamily C Member 5	Protein Coding	51	GC03M183919	5.09292078	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABCC5
ITGB2	Integrin Subunit Beta 2	Protein Coding	57	GC21M044885	5.083768845	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGB2
ACOT8	Acyl-CoA Thioesterase 8	Protein Coding	44	GC20M045841	5.071051598	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACOT8
APPL1	Adaptor Protein, Phosphotyrosine Interacting With PH Domain And Leucine Zipper 1	Protein Coding	51	GC03P057227	5.065500736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=APPL1
HMOX2	Heme Oxygenase 2	Protein Coding	53	GC16P004474	5.051269531	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HMOX2
CSNK2B	Casein Kinase 2 Beta	Protein Coding	55	GC06P092157	5.048334599	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CSNK2B
SRD5A3	Steroid 5 Alpha-Reductase 3	Protein Coding	50	GC04P055346	5.043519974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SRD5A3
BCR	BCR Activator Of RhoGEF And GTPase	Protein Coding	59	GC22P023179	5.043236256	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BCR
CPT1C	Carnitine Palmitoyltransferase 1C	Protein Coding	50	GC19P049690	5.040052414	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CPT1C
NGF	Nerve Growth Factor	Protein Coding	58	GC01M115285	5.035580635	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NGF
RARA	Retinoic Acid Receptor Alpha	Protein Coding	57	GC17P040309	5.034917831	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RARA
OSBP	Oxysterol Binding Protein	Protein Coding	47	GC11M099460	5.02068615	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OSBP
RELA	RELA Proto-Oncogene, NF-KB Subunit	Protein Coding	59	GC11M065653	5.020265102	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RELA
GPBAR1	G Protein-Coupled Bile Acid Receptor 1	Protein Coding	47	GC02P218259	5.01853466	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GPBAR1
SLC22A6	Solute Carrier Family 22 Member 6	Protein Coding	51	GC11M099607	5.0164814	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPAS1

SLC16A2	Solute Carrier Family 16 Member 2	Protein Coding	50	GC0XP074510	5.015535355	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC16A2
RET	Ret Proto-Oncogene	Protein Coding	61	GC10P043237	5.005290031	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RET
DHODH	Dihydroorotate Dehydrogenase (Quinone)	Protein Coding	53	GC16P072008	5.001195908	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DHODH
PLCG1	Phospholipase C Gamma 1	Protein Coding	53	GC20P041136	4.999927521	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLCG1
IL6ST	Interleukin 6 Cytokine Family Signal Transducer	Protein Coding	56	GC05M055935	4.997031212	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL6ST
SPHK1	Sphingosine Kinase 1	Protein Coding	53	GC17P076376	4.993997097	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SPHK1
SLC3A2	Solute Carrier Family 3 Member 2	Protein Coding	50	GC11P062856	4.993354797	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC3A2
MIF	Macrophage Migration Inhibitory Factor	Protein Coding	55	GC22P023894	4.985460281	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIF
GIP	Gastric Inhibitory Polypeptide	Protein Coding	44	GC17M048958	4.984392643	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GIP
GART	Phosphoribosylglycinamide Formyltransferase, Phosphoribosylglycinamide Synthetase, Phosphoribosylaminoimidazole Synthetase	Protein Coding	50	GC21M033503	4.982872963	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GART
SELP	Selectin P	Protein Coding	52	GC01M169558	4.982637405	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SELP
RPS27A	Ribosomal Protein S27a	Protein Coding	48	GC02P055231	4.981519699	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPS27A
GAST	Gastrin	Protein Coding	46	GC17P041712	4.976635933	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GAST
TNFRSF1A	TNF Receptor Superfamily Member 1A	Protein Coding	57	GC12M006328	4.969126225	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNFRSF1A

1	HLA-DQB	Major Histocompatibility Complex, Class II, DQ Beta 1	Protein Coding	48	GC06M071781	4.959109306	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HLA-DQB1
	COASY	Coenzyme A Synthase	Protein Coding	52	GC17P042561	4.956408024	https://www.genecards.org/cgi-bin/carddisp.pl?gene=COASY
	MYD88	MYD88 Innate Immune Signal Transduction Adaptor	Protein Coding	56	GC03P038152	4.956139088	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYD88
	CTSG	Cathepsin G	Protein Coding	52	GC14M024573	4.955893993	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTSG
	PRKACA	Protein Kinase CAMP-Activated Catalytic Subunit Alpha	Protein Coding	59	GC19M014672	4.948847294	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRKACA
	KDR	Kinase Insert Domain Receptor	Protein Coding	60	GC04M055078	4.945917606	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KDR
	DGAT2	Diacylglycerol O-Acyltransferase 2	Protein Coding	49	GC11P075759	4.939157963	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DGAT2
	HDAC1	Histone Deacetylase 1	Protein Coding	57	GC01P032292	4.924383163	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HDAC1
	BTK	Bruton Tyrosine Kinase	Protein Coding	60	GC0XM101349	4.922725201	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BTK
	VIM	Vimentin	Protein Coding	57	GC10P017227	4.918421745	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VIM
	CHEK2	Checkpoint Kinase 2	Protein Coding	61	GC22M028687	4.904974937	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHEK2
	CALR	Calreticulin	Protein Coding	58	GC19P012938	4.903204918	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CALR
	HMGCS1	3-Hydroxy-3-Methylglutaryl-CoA Synthase 1	Protein Coding	48	GC05M044196	4.901966095	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HMGCS1
	GAD2	Glutamate Decarboxylase 2	Protein Coding	51	GC10P026216	4.901376247	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GAD2
	CYB5R3	Cytochrome B5 Reductase 3	Protein Coding	52	GC22M061501	4.898460865	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYB5R3

ALAS1	5'-Aminolevulinate Synthase 1	Protein Coding	50	GC03P052198	4.893675804	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALAS1
BAX	BCL2 Associated X, Apoptosis Regulator	Protein Coding	57	GC19P048954	4.886703491	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BAX
ACOT4	Acyl-CoA Thioesterase 4	Protein Coding	42	GC14P073592	4.880039692	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACOT4
SPR	Sepiapterin Reductase	Protein Coding	56	GC02P072850	4.879478931	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SPR
VHL	Von Hippel-Lindau Tumor Suppressor	Protein Coding	54	GC03P013681	4.872748375	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VHL
SETD2	SET Domain Containing 2, Histone Lysine Methyltransferase	Protein Coding	53	GC03M047033	4.872437	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SETD2
HBA2	Hemoglobin Subunit Alpha 2	Protein Coding	48	GC16P013429	4.87237978	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HBA2
ACSL6	Acyl-CoA Synthetase Long Chain Family Member 6	Protein Coding	47	GC05M131949	4.870249748	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACSL6
IDE	Insulin Degrading Enzyme	Protein Coding	55	GC10M092451	4.864925861	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IDE
HSPA5	Heat Shock Protein Family A (Hsp70) Member 5	Protein Coding	55	GC09M125234	4.862672329	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSPA5
ALDH3B2	Aldehyde Dehydrogenase 3 Family Member B2	Protein Coding	45	GC11M067662	4.860623837	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALDH3B2
CLCN1	Chloride Voltage-Gated Channel 1	Protein Coding	50	GC07P143316	4.854913712	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CLCN1
NGFR	Nerve Growth Factor Receptor	Protein Coding	54	GC17P049495	4.847626686	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NGFR
KRT18	Keratin 18	Protein Coding	56	GC12P052948	4.843678474	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KRT18
HBG2	Hemoglobin Subunit Gamma 2	Protein Coding	47	GC11M006835	4.837977886	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HBG2

PSPH	Phosphoserine Phosphatase	Protein Coding	52	GC07M061179	4.837378979	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PSPH
GNPAT	Glyceronephosphate O-Acyltransferase	Protein Coding	51	GC01P231241	4.835204601	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GNPAT
BACE1	Beta-Secretase 1	Protein Coding	53	GC11M117285	4.827996254	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BACE1
IGHE	Immunoglobulin Heavy Constant Epsilon	Protein Coding	36	GC14M113319	4.824530125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IGHE
CASK	Calcium/Calmodulin Dependent Serine Protein Kinase	Protein Coding	56	GC0XM041514	4.822626591	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CASK
DLST	Dihydrolipoamide S-Succinyltransferase	Protein Coding	52	GC14P074881	4.821403027	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DLST
FLG	Filaggrin	Protein Coding	47	GC01M152828	4.818543434	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FLG
HYOU1	Hypoxia Up-Regulated 1	Protein Coding	52	GC11M119272	4.812234402	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HYOU1
CDKL5	Cyclin Dependent Kinase Like 5	Protein Coding	50	GC0XP018425	4.80866766	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDKL5
AOC1	Amine Oxidase Copper Containing 1	Protein Coding	49	GC07P150824	4.807901382	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AOC1
GRIN1	Glutamate Ionotropic Receptor NMDA Type Subunit 1	Protein Coding	57	GC09P137184	4.80106926	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRIN1
FUT2	Fucosyltransferase 2	Protein Coding	52	GC19P048695	4.799116611	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FUT2
SLCO1B3	Solute Carrier Organic Anion Transporter Family Member 1B3	Protein Coding	51	GC12P020810	4.793128967	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLCO1B3
TACR1	Tachykinin Receptor 1	Protein Coding	51	GC02M075203	4.782237053	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TACR1
PIK3CD	Phosphatidylinositol-4,5-Bisphosphate 3-Kinase Catalytic Subunit Delta	Protein Coding	60	GC01P009628	4.779503822	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PIK3CD

AIRE	Autoimmune Regulator	Protein Coding	50	GC21P044285	4.776328087	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AIRE
ACSM2B	Acyl-CoA Synthetase Medium Chain Family Member 2B	Protein Coding	40	GC16M020547	4.77520895	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACSM2B
ATOX1	Antioxidant 1 Copper Chaperone	Protein Coding	46	GC05M151743	4.772132397	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATOX1
LCN2	Lipocalin 2	Protein Coding	52	GC09P128149	4.771922112	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LCN2
HSD17B2	Hydroxysteroid 17-Beta Dehydrogenase 2	Protein Coding	50	GC16P082068	4.765637875	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSD17B2
ACP1	Acid Phosphatase 1	Protein Coding	50	GC02P000402	4.764500618	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACP1
HSD17B7	Hydroxysteroid 17-Beta Dehydrogenase 7	Protein Coding	50	GC01P162790	4.741034031	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSD17B7
CDK1	Cyclin Dependent Kinase 1	Protein Coding	54	GC10P060772	4.737948895	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDK1
ANGPT2	Angiopoietin 2	Protein Coding	55	GC08M006499	4.737078667	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ANGPT2
HSPB1	Heat Shock Protein Family B (Small) Member 1	Protein Coding	59	GC07P076302	4.732555866	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSPB1
SAT1	Spermidine/Spermine N1-Acetyltransferase 1	Protein Coding	51	GC0XP023784	4.724458218	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SAT1
HSPA8	Heat Shock Protein Family A (Hsp70) Member 8	Protein Coding	56	GC11M123057	4.723155022	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSPA8
TXNRD2	Thioredoxin Reductase 2	Protein Coding	51	GC22M019863	4.720499992	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TXNRD2
KCNQ1	Potassium Voltage-Gated Channel Subfamily Q Member 1	Protein Coding	57	GC11P002444	4.712696552	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNQ1
HDC	Histidine Decarboxylase	Protein Coding	51	GC15M050241	4.712660789	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HDC

GRIN2B	Glutamate Ionotropic Receptor NMDA Type Subunit 2B	Protein Coding	59	GC12M013437	4.70554781	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRIN2B
ACE2	Angiotensin Converting Enzyme 2	Protein Coding	56	GC0XM015494	4.698474884	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACE2
RAF1	Raf-1 Proto-Oncogene, Serine/Threonine Kinase	Protein Coding	61	GC03M012583	4.69260931	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RAF1
NTRK2	Neurotrophic Receptor Tyrosine Kinase 2	Protein Coding	60	GC09P084668	4.689634323	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NTRK2
TIMM8A	Translocase Of Inner Mitochondrial Membrane 8A	Protein Coding	48	GC0XM101345	4.683206081	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TIMM8A
DNAH8	Dynein Axonemal Heavy Chain 8	Protein Coding	44	GC06P092313	4.681497574	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DNAH8
CROT	Carnitine O-Octanoyltransferase	Protein Coding	46	GC07P087369	4.68108654	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CROT
YAP1	Yes1 Associated Transcriptional Regulator	Protein Coding	55	GC11P102110	4.661038876	https://www.genecards.org/cgi-bin/carddisp.pl?gene=YAP1
LPCAT1	Lysophosphatidylcholine Acyltransferase 1	Protein Coding	42	GC05M001456	4.657835007	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LPCAT1
IL7	Interleukin 7	Protein Coding	50	GC08M078689	4.655595779	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL7
ANGPT1	Angiopoietin 1	Protein Coding	53	GC08M107246	4.639920712	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ANGPT1
SFTPD	Surfactant Protein D	Protein Coding	51	GC10M079937	4.638412476	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SFTPD
SLCO1A2	Solute Carrier Organic Anion Transporter Family Member 1A2	Protein Coding	44	GC12M021264	4.631290436	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLCO1A2
ELOVL2	ELOVL Fatty Acid Elongase 2	Protein Coding	45	GC06M010980	4.627637386	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ELOVL2
HSPA4	Heat Shock Protein Family A (Hsp70) Member 4	Protein Coding	49	GC05P133054	4.618183136	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSPA4

CSNK2A1	Casein Kinase 2 Alpha 1	Protein Coding	57	GC20M000472	4.617533207	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CSNK2A1
SLC4A4	Solute Carrier Family 4 Member 4	Protein Coding	53	GC04P071063	4.614068985	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC4A4
CNDP1	Carnosine Dipeptidase 1	Protein Coding	50	GC18P074534	4.612370491	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CNDP1
LTA4H	Leukotriene A4 Hydrolase	Protein Coding	53	GC12M096000	4.609683037	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LTA4H
CHGA	Chromogranin A	Protein Coding	50	GC14P092950	4.607313633	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHGA
KCNH2	Potassium Voltage-Gated Channel Subfamily H Member 2	Protein Coding	57	GC07M150944	4.600515842	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNH2
CYBA	Cytochrome B-245 Alpha Chain	Protein Coding	54	GC16M088643	4.597821712	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYBA
ACSM2A	Acyl-CoA Synthetase Medium Chain Family Member 2A	Protein Coding	39	GC16P020463	4.596745014	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACSM2A
PTGES	Prostaglandin E Synthase	Protein Coding	48	GC09M129738	4.596619606	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTGES
TFAP2A	Transcription Factor AP-2 Alpha	Protein Coding	53	GC06M010393	4.594346046	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TFAP2A
SLC6A14	Solute Carrier Family 6 Member 14	Protein Coding	48	GC0XP116436	4.591845036	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC6A14
HTR2C	5-Hydroxytryptamine Receptor 2C	Protein Coding	52	GC0XP114584	4.588009834	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HTR2C
PRMT1	Protein Arginine Methyltransferase 1	Protein Coding	55	GC19P049675	4.583292007	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRMT1
CAMK2G	Calcium/Calmodulin Dependent Protein Kinase II Gamma	Protein Coding	54	GC10M073812	4.57988739	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CAMK2G
HSPD1	Heat Shock Protein Family D (Hsp60) Member 1	Protein Coding	55	GC02M197486	4.576894283	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSPD1

SLC7A11	Solute Carrier Family 7 Member 11	Protein Coding	51	GC04M138164	4.569381237	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC7A11
NCOA1	Nuclear Receptor Coactivator 1	Protein Coding	51	GC02P024492	4.565952778	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NCOA1
SLC6A4	Solute Carrier Family 6 Member 4	Protein Coding	55	GC17M030194	4.565765858	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC6A4
SMN1	Survival Of Motor Neuron 1, Telomeric	Protein Coding	47	GC05P070924	4.564593792	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SMN1
TLR2	Toll Like Receptor 2	Protein Coding	59	GC04P153684	4.562651634	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TLR2
P2RX7	Purinergic Receptor P2X 7	Protein Coding	54	GC12P126979	4.556344986	https://www.genecards.org/cgi-bin/carddisp.pl?gene=P2RX7
RHOA	Ras Homolog Family Member A	Protein Coding	57	GC03M049359	4.555493832	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RHOA
MLH1	MutL Homolog 1	Protein Coding	55	GC03P036993	4.549809933	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MLH1
ADRB1	Adrenoceptor Beta 1	Protein Coding	54	GC10P114044	4.549460411	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADRB1
TIMP2	TIMP Metallopeptidase Inhibitor 2	Protein Coding	48	GC17M078852	4.54147768	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TIMP2
DBI	Diazepam Binding Inhibitor, Acyl-CoA Binding Protein	Protein Coding	51	GC02P119366	4.539021969	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DBI
CDH1	Cadherin 1	Protein Coding	56	GC16P068737	4.532455921	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDH1
CDKN2B	Cyclin Dependent Kinase Inhibitor 2B	Protein Coding	53	GC09M022002	4.53066206	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDKN2B
PLCD1	Phospholipase C Delta 1	Protein Coding	55	GC03M038008	4.52986908	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLCD1
CYSLTR1	Cysteinyl Leukotriene Receptor 1	Protein Coding	50	GC0XM078271	4.527486801	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYSLTR1

SPTLC2	Serine Palmitoyltransferase Long Chain Base Subunit 2	Protein Coding	54	GC14M077505	4.527154922	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SPTLC2
ARAF	A-Raf Proto-Oncogene, Serine/Threonine Kinase	Protein Coding	53	GC0XP047710	4.521902084	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARAF
DGKQ	Diacylglycerol Kinase Theta	Protein Coding	48	GC04M000958	4.516810894	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DGKQ
ACAA1	Acetyl-CoA Acyltransferase 1	Protein Coding	48	GC03M038103	4.513883114	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACAA1
BLVRA	Biliverdin Reductase A	Protein Coding	51	GC07P043758	4.509799004	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BLVRA
RPA1	Replication Protein A1	Protein Coding	53	GC17P001829	4.499402523	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPA1
CDKN1A	Cyclin Dependent Kinase Inhibitor 1A	Protein Coding	55	GC06P092294	4.492255211	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDKN1A
LTF	Lactotransferrin	Protein Coding	52	GC03M046435	4.481446266	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LTF
SOCS3	Suppressor Of Cytokine Signaling 3	Protein Coding	50	GC17M078356	4.479187489	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SOCS3
COL2A1	Collagen Type II Alpha 1 Chain	Protein Coding	56	GC12M047972	4.477406502	https://www.genecards.org/cgi-bin/carddisp.pl?gene=COL2A1
WT1	WT1 Transcription Factor	Protein Coding	55	GC11M032365	4.475149155	https://www.genecards.org/cgi-bin/carddisp.pl?gene=WT1
LDHB	Lactate Dehydrogenase B	Protein Coding	53	GC12M021635	4.47364521	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LDHB
ACSBG1	Acyl-CoA Synthetase Bubblegum Family Member 1	Protein Coding	48	GC15M078167	4.471997738	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACSBG1
SNAP25	Synaptosome Associated Protein 25	Protein Coding	55	GC20P010193	4.466922283	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SNAP25
NME1	NME/NM23 Nucleoside Diphosphate Kinase 1	Protein Coding	51	GC17P062974	4.462903023	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NME1

ADRA2A	Adrenoceptor Alpha 2A	Protein Coding	52	GC10P111077	4.449795246	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADRA2A
DYRK1A	Dual Specificity Tyrosine Phosphorylation Regulated Kinase 1A	Protein Coding	57	GC21P037365	4.449550152	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DYRK1A
FASLG	Fas Ligand	Protein Coding	55	GC01P172628	4.443905354	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FASLG
ACSL3	Acyl-CoA Synthetase Long Chain Family Member 3	Protein Coding	49	GC02P222860	4.439405918	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACSL3
AGER	Advanced Glycosylation End-Product Specific Receptor	Protein Coding	53	GC06M032180	4.438507557	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AGER
CXCR4	C-X-C Motif Chemokine Receptor 4	Protein Coding	59	GC02M136114	4.436937332	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CXCR4
CBL	Cbl Proto-Oncogene	Protein Coding	59	GC11P119206	4.430374146	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CBL
THBS1	Thrombospondin 1	Protein Coding	52	GC15P039581	4.425669193	https://www.genecards.org/cgi-bin/carddisp.pl?gene=THBS1
IFNA1	Interferon Alpha 1	Protein Coding	45	GC09P021611	4.422715187	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IFNA1
SRR	Serine Racemase	Protein Coding	48	GC17P002303	4.418429375	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SRR
ADPRH	ADP-Ribosylarginine Hydrolase	Protein Coding	42	GC03P119579	4.417760849	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADPRH
CCN2	Cellular Communication Network Factor 2	Protein Coding	53	GC06M131948	4.404472828	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCN2
TGFA	Transforming Growth Factor Alpha	Protein Coding	53	GC02M070447	4.400311947	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TGFA
PAX5	Paired Box 5	Protein Coding	52	GC09M036879	4.399440765	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PAX5
RUNX1	RUNX Family Transcription Factor 1	Protein Coding	56	GC21M034787	4.396518707	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RUNX1

ENG	Endoglin	Protein Coding	55	GC09M127815	4.393945217	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENG
PDGFB	Platelet Derived Growth Factor Subunit B	Protein Coding	58	GC22M062326	4.381302357	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDGFB
EDNRA	Endothelin Receptor Type A	Protein Coding	56	GC04P147480	4.378360271	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EDNRA
SLC27A2	Solute Carrier Family 27 Member 2	Protein Coding	52	GC15P050182	4.3697896	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC27A2
NCOA3	Nuclear Receptor Coactivator 3	Protein Coding	54	GC20P047501	4.368255615	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NCOA3
CDK2	Cyclin Dependent Kinase 2	Protein Coding	58	GC12P055966	4.363362789	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDK2
GAL	Galanin And GMAP Prepropeptide	Protein Coding	51	GC11P071097	4.357871056	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GAL
PLCG2	Phospholipase C Gamma 2	Protein Coding	58	GC16P081773	4.349803448	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLCG2
LTA	Lymphotoxin Alpha	Protein Coding	49	GC06P092152	4.348684311	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LTA
CLU	Clusterin	Protein Coding	54	GC08M027596	4.345746994	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CLU
MUC1	Mucin 1, Cell Surface Associated	Protein Coding	55	GC01M155185	4.336580753	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MUC1
SMAD4	SMAD Family Member 4	Protein Coding	59	GC18P051028	4.335887909	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SMAD4
FN1	Fibronectin 1	Protein Coding	57	GC02M215360	4.331896305	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FN1
TGFBR1	Transforming Growth Factor Beta Receptor 1	Protein Coding	61	GC09P099104	4.330105305	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TGFBR1
BSG	Basigin (Ok Blood Group)	Protein Coding	51	GC19P000571	4.324801445	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BSG

RRM2	Ribonucleotide Reductase Regulatory Subunit M2	Protein Coding	55	GC02P010123	4.324131966	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RRM2
PARK7	Parkinsonism Associated Deglycase	Protein Coding	54	GC01P008140	4.317549706	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PARK7
TGFBR2	Transforming Growth Factor Beta Receptor 2	Protein Coding	59	GC03P030623	4.308754444	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TGFBR2
HDAC2	Histone Deacetylase 2	Protein Coding	59	GC06M113933	4.305524826	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HDAC2
PRNP	Prion Protein	Protein Coding	55	GC20P004686	4.301037312	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRNP
RRM1	Ribonucleotide Reductase Catalytic Subunit M1	Protein Coding	56	GC11P004115	4.299415112	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RRM1
PRKCD	Protein Kinase C Delta	Protein Coding	59	GC03P053156	4.297080994	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRKCD
SLC26A4	Solute Carrier Family 26 Member 4	Protein Coding	49	GC07P107660	4.296963692	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC26A4
PRDX5	Peroxiredoxin 5	Protein Coding	51	GC11P064460	4.295131683	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRDX5
SEMA4D	Semaphorin 4D	Protein Coding	53	GC09M089360	4.28213644	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SEMA4D
NKX2-1	NK2 Homeobox 1	Protein Coding	53	GC14M036516	4.278104782	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NKX2-1
NEU3	Neuraminidase 3	Protein Coding	45	GC11P078455	4.275635242	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NEU3
WRN	WRN RecQ Like Helicase	Protein Coding	53	GC08P031033	4.274279118	https://www.genecards.org/cgi-bin/carddisp.pl?gene=WRN
TBK1	TANK Binding Kinase 1	Protein Coding	56	GC12P064451	4.270060539	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TBK1
B4GALNT1	Beta-1,4-N-Acetyl-Galactosaminyltransferase 1	Protein Coding	53	GC12M057623	4.263757229	https://www.genecards.org/cgi-bin/carddisp.pl?gene=B4GALNT1

CD19	CD19 Molecule	Protein Coding	58	GC16P042650	4.263446808	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD19
IKBKB	Inhibitor Of Nuclear Factor Kappa B Kinase Subunit Beta	Protein Coding	61	GC08P042271	4.261201859	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IKBKB
ACOT12	Acyl-CoA Thioesterase 12	Protein Coding	44	GC05M081309	4.259821892	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACOT12
NRAS	NRAS Proto-Oncogene, GTPase	Protein Coding	57	GC01M114704	4.258516312	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NRAS
ABCD2	ATP Binding Cassette Subfamily D Member 2	Protein Coding	47	GC12M039530	4.252993107	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABCD2
FAR1	Fatty Acyl-CoA Reductase 1	Protein Coding	49	GC11P013668	4.249789238	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FAR1
SLC1A3	Solute Carrier Family 1 Member 3	Protein Coding	56	GC05P036654	4.249479294	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC1A3
PTK2B	Protein Tyrosine Kinase 2 Beta	Protein Coding	55	GC08P027311	4.24893856	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTK2B
PRKG1	Protein Kinase CGMP-Dependent 1	Protein Coding	57	GC10P050991	4.246487141	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRKG1
PIKFYVE	Phosphoinositide Kinase, FYVE-Type Zinc Finger Containing	Protein Coding	55	GC02P208266	4.238278866	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PIKFYVE
NTRK1	Neurotrophic Receptor Tyrosine Kinase 1	Protein Coding	57	GC01P156815	4.233635426	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NTRK1
PLAU	Plasminogen Activator, Urokinase	Protein Coding	59	GC10P073909	4.2326684	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLAU
ITGAM	Integrin Subunit Alpha M	Protein Coding	55	GC16P042850	4.231232643	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGAM
HPX	Hemopexin	Protein Coding	48	GC11M006939	4.224319935	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HPX
VIP	Vasoactive Intestinal Peptide	Protein Coding	51	GC06P152750	4.223753452	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VIP

SYNJ1	Synaptojanin 1	Protein Coding	52	GC21M032628	4.215205193	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SYNJ1
PRSS1	Serine Protease 1	Protein Coding	51	GC07P149953	4.214827061	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRSS1
IDO2	Indoleamine 2,3-Dioxygenase 2	Protein Coding	45	GC08P039976	4.204556465	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IDO2
OARD1	O-Acyl-ADP-Ribose Deacylase 1	Protein Coding	39	GC06M071913	4.190365314	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OARD1
PSEN2	Presenilin 2	Protein Coding	56	GC01P226870	4.188182831	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PSEN2
GPC3	Glypican 3	Protein Coding	53	GC0XM133535	4.185760498	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GPC3
HDAC3	Histone Deacetylase 3	Protein Coding	56	GC05M141620	4.183124065	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HDAC3
PTGES2	Prostaglandin E Synthase 2	Protein Coding	50	GC09M128120	4.17619276	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTGES2
PTPMT1	Protein Tyrosine Phosphatase Mitochondrial 1	Protein Coding	44	GC11P047568	4.171000481	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPMT1
P4HB	Prolyl 4-Hydroxylase Subunit Beta	Protein Coding	56	GC17M081843	4.170737743	https://www.genecards.org/cgi-bin/carddisp.pl?gene=P4HB
XK	X-Linked Kx Blood Group Antigen, Kell And VPS13A Binding Protein	Protein Coding	47	GC0XP037685	4.168406487	https://www.genecards.org/cgi-bin/carddisp.pl?gene=XK
CDK4	Cyclin Dependent Kinase 4	Protein Coding	61	GC12M057787	4.165514946	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDK4
SPTLC3	Serine Palmitoyltransferase Long Chain Base Subunit 3	Protein Coding	46	GC20P013008	4.162569523	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SPTLC3
XPC	XPC Complex Subunit, DNA Damage Recognition And Repair Factor	Protein Coding	52	GC03M021831	4.16207695	https://www.genecards.org/cgi-bin/carddisp.pl?gene=XPC
SLC1A1	Solute Carrier Family 1 Member 1	Protein Coding	56	GC09P004490	4.161443233	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC1A1

OGT	O-Linked N-Acetylglucosamine (GlcNAc) Transferase	Protein Coding	51	GC0XP071534	4.159537315	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OGT
SMAD3	SMAD Family Member 3	Protein Coding	59	GC15P067063	4.158631802	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SMAD3
ELOVL1	ELOVL Fatty Acid Elongase 1	Protein Coding	48	GC01M043363	4.157157898	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ELOVL1
TRPV4	Transient Receptor Potential Cation Channel Subfamily V Member 4	Protein Coding	56	GC12M109783	4.151106358	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRPV4
GSTA2	Glutathione S-Transferase Alpha 2	Protein Coding	47	GC06M052750	4.144515514	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GSTA2
M6PR	Mannose-6-Phosphate Receptor, Cation Dependent	Protein Coding	50	GC12M009029	4.144075394	https://www.genecards.org/cgi-bin/carddisp.pl?gene=M6PR
SLCO2B1	Solute Carrier Organic Anion Transporter Family Member 2B1	Protein Coding	51	GC11P078457	4.143146515	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLCO2B1
ENO2	Enolase 2	Protein Coding	54	GC12P006913	4.141520023	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENO2
CD40	CD40 Molecule	Protein Coding	57	GC20P046118	4.141496658	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD40
NAT8L	N-Acetyltransferase 8 Like	Protein Coding	44	GC04P002061	4.136281013	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NAT8L
CD8A	CD8a Molecule	Protein Coding	54	GC02M086784	4.132395267	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD8A
FGF19	Fibroblast Growth Factor 19	Protein Coding	49	GC11M099882	4.129551411	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGF19
ACAA2	Acetyl-CoA Acyltransferase 2	Protein Coding	51	GC18M049782	4.127201557	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACAA2
DCN	Decorin	Protein Coding	54	GC12M091140	4.126251698	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DCN
XIAP	X-Linked Inhibitor Of Apoptosis	Protein Coding	59	GC0XP123859	4.12197876	https://www.genecards.org/cgi-bin/carddisp.pl?gene=XIAP

MDM2	MDM2 Proto-Oncogene	Protein Coding	59	GC12P068808	4.121714115	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MDM2
OPRM1	Opioid Receptor Mu 1	Protein Coding	55	GC06P154123	4.121528625	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OPRM1
FHIT	Fragile Histidine Triad Diadenosine Triphosphatase	Protein Coding	51	GC03M059747	4.118954182	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FHIT
LRP6	LDL Receptor Related Protein 6	Protein Coding	55	GC12M022658	4.107475281	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LRP6
SLC22A11	Solute Carrier Family 22 Member 11	Protein Coding	47	GC11P064573	4.107285976	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC22A11
ACTA1	Actin Alpha 1, Skeletal Muscle	Protein Coding	55	GC01M229647	4.103856087	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACTA1
ITGB3	Integrin Subunit Beta 3	Protein Coding	59	GC17P062247	4.099756241	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGB3
NPM1	Nucleophosmin 1	Protein Coding	57	GC05P171387	4.094702721	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPM1
SGK1	Serum/Glucocorticoid Regulated Kinase 1	Protein Coding	56	GC06M134169	4.088385105	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SGK1
IL1R1	Interleukin 1 Receptor Type 1	Protein Coding	53	GC02P102136	4.08834362	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL1R1
DLG4	Discs Large MAGUK Scaffold Protein 4	Protein Coding	55	GC17M007226	4.085865021	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DLG4
PRTN3	Proteinase 3	Protein Coding	52	GC19P000840	4.081354618	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRTN3
PPA1	Inorganic Pyrophosphatase 1	Protein Coding	50	GC10M070202	4.078914165	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PPA1
PDHA2	Pyruvate Dehydrogenase E1 Subunit Alpha 2	Protein Coding	50	GC04P095840	4.076750755	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDHA2
OXT	Oxytocin/Neurophysin I Prepropeptide	Protein Coding	44	GC20P004488	4.070765495	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OXT

LMNB1	Lamin B1	Protein Coding	53	GC05P126776	4.070357323	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LMNB1
INPP5D	Inositol Polyphosphate-5-Phosphatase D	Protein Coding	51	GC02P233059	4.067728996	https://www.genecards.org/cgi-bin/carddisp.pl?gene=INPP5D
NCOR2	Nuclear Receptor Corepressor 2	Protein Coding	50	GC12M124324	4.064220428	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NCOR2
XBP1	X-Box Binding Protein 1	Protein Coding	52	GC22M028794	4.061617851	https://www.genecards.org/cgi-bin/carddisp.pl?gene=XBP1
CHUK	Component Of Inhibitor Of Nuclear Factor Kappa B Kinase Complex	Protein Coding	58	GC10M100202	4.053830147	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHUK
SERPINA7	Serpin Family A Member 7	Protein Coding	48	GC0XM106032	4.048786163	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SERPINA7
RB1	RB Transcriptional Corepressor 1	Protein Coding	55	GC13P048303	4.047911167	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RB1
NOTCH1	Notch Receptor 1	Protein Coding	60	GC09M137729	4.046423912	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NOTCH1
TSC1	TSC Complex Subunit 1	Protein Coding	54	GC09M132891	4.045608997	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TSC1
CEBPB	CCAAT Enhancer Binding Protein Beta	Protein Coding	50	GC20P050190	4.044969082	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CEBPB
PLD1	Phospholipase D1	Protein Coding	55	GC03M171600	4.041944981	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLD1
UGT2B10	UDP Glucuronosyltransferase Family 2 Member B10	Protein Coding	47	GC04P068816	4.030697823	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UGT2B10
WDR45	WD Repeat Domain 45	Protein Coding	46	GC0XM049074	4.027177334	https://www.genecards.org/cgi-bin/carddisp.pl?gene=WDR45
RIPK1	Receptor Interacting Serine/Threonine Kinase 1	Protein Coding	56	GC06P003333	4.020352364	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RIPK1
EIF2AK4	Eukaryotic Translation Initiation Factor 2 Alpha Kinase 4	Protein Coding	52	GC15P039934	4.020245075	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EIF2AK4

CERS1	Ceramide Synthase 1	Protein Coding	49	GC19M018868	4.019072056	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CERS1
ENTPD1	Ectonucleoside Triphosphate Diphosphohydrolase 1	Protein Coding	57	GC10P095711	4.01881361	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENTPD1
CYP51A1	Cytochrome P450 Family 51 Subfamily A Member 1	Protein Coding	50	GC07M092112	4.017743111	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP51A1
MAP3K5	Mitogen-Activated Protein Kinase Kinase Kinase 5	Protein Coding	55	GC06M136557	4.017704487	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAP3K5
SLC36A1	Solute Carrier Family 36 Member 1	Protein Coding	46	GC05P151344	4.017536163	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC36A1
HMMR	Hyaluronan Mediated Motility Receptor	Protein Coding	50	GC05P163480	4.016493797	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HMMR
PRKCB	Protein Kinase C Beta	Protein Coding	55	GC16P024574	4.015511513	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRKCB
MOGAT2	Monoacylglycerol O-Acyltransferase 2	Protein Coding	43	GC11P075717	4.011301994	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MOGAT2
APOM	Apolipoprotein M	Protein Coding	47	GC06P092161	3.997857571	https://www.genecards.org/cgi-bin/carddisp.pl?gene=APOM
THRB	Thyroid Hormone Receptor Beta	Protein Coding	56	GC03M024117	3.983554363	https://www.genecards.org/cgi-bin/carddisp.pl?gene=THRB
CKB	Creatine Kinase B	Protein Coding	51	GC14M103519	3.977226257	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CKB
RAPSN	Receptor Associated Protein Of The Synapse	Protein Coding	48	GC11M099370	3.971043825	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RAPSN
GRP	Gastrin Releasing Peptide	Protein Coding	47	GC18P059220	3.969022274	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRP
KCNMA1	Potassium Calcium-Activated Channel Subfamily M Alpha 1	Protein Coding	56	GC10M076869	3.950283051	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNMA1
KLK3	Kallikrein Related Peptidase 3	Protein Coding	53	GC19P050854	3.946335554	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KLK3

CDK5	Cyclin Dependent Kinase 5	Protein Coding	60	GC07M151053	3.944981575	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDK5
SLC12A5	Solute Carrier Family 12 Member 5	Protein Coding	55	GC20P046021	3.943710566	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC12A5
CSF3	Colony Stimulating Factor 3	Protein Coding	47	GC17P040015	3.937470913	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CSF3
PDE3B	Phosphodiesterase 3B	Protein Coding	50	GC11P014643	3.933916092	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDE3B
IFNA2	Interferon Alpha 2	Protein Coding	50	GC09M021384	3.93334651	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IFNA2
SLC1A4	Solute Carrier Family 1 Member 4	Protein Coding	52	GC02P064988	3.931900501	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC1A4
AKT3	AKT Serine/Threonine Kinase 3	Protein Coding	61	GC01M243488	3.922803879	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AKT3
H19	H19 Imprinted Maternally Expressed Transcript	RNA Gene	30	GC11M001995	3.921946287	https://www.genecards.org/cgi-bin/carddisp.pl?gene=H19
CTLA4	Cytotoxic T-Lymphocyte Associated Protein 4	Protein Coding	54	GC02P203854	3.916200161	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTLA4
RAC1	Rac Family Small GTPase 1	Protein Coding	55	GC07P006377	3.913594246	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RAC1
H4C16	H4 Histone 16	Protein Coding	42	GC12M022801	3.911123037	https://www.genecards.org/cgi-bin/carddisp.pl?gene=H4C16
GPX3	Glutathione Peroxidase 3	Protein Coding	47	GC05P150997	3.910354376	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GPX3
MYO5B	Myosin VB	Protein Coding	50	GC18M049822	3.909657717	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYO5B
STUB1	STIP1 Homology And U-Box Containing Protein 1	Protein Coding	53	GC16P013453	3.907438517	https://www.genecards.org/cgi-bin/carddisp.pl?gene=STUB1
E2F1	E2F Transcription Factor 1	Protein Coding	50	GC20M033675	3.905562401	https://www.genecards.org/cgi-bin/carddisp.pl?gene=E2F1

IL15	Interleukin 15	Protein Coding	49	GC04P141636	3.902137041	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL15
HTR2A	5-Hydroxytryptamine Receptor 2A	Protein Coding	55	GC13M046831	3.901376009	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HTR2A
LPO	Lactoperoxidase	Protein Coding	46	GC17P058218	3.900479317	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LPO
LAMP1	Lysosomal Associated Membrane Protein 1	Protein Coding	50	GC13P113297	3.897934437	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LAMP1
IKBKG	Inhibitor Of Nuclear Factor Kappa B Kinase Regulatory Subunit Gamma	Protein Coding	55	GC0XP154541	3.894810677	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IKBKG
ADM	Adrenomedullin	Protein Coding	51	GC11P010304	3.88862443	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADM
MSH6	MutS Homolog 6	Protein Coding	55	GC02P047695	3.887536764	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MSH6
CA9	Carbonic Anhydrase 9	Protein Coding	53	GC09P035673	3.883813143	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CA9
TUBB1	Tubulin Beta 1 Class VI	Protein Coding	53	GC20P059020	3.882990837	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TUBB1
GATA3	GATA Binding Protein 3	Protein Coding	56	GC10P008045	3.879091263	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GATA3
GRB2	Growth Factor Receptor Bound Protein 2	Protein Coding	52	GC17M075318	3.878803253	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRB2
ESRRB	Estrogen Related Receptor Beta	Protein Coding	54	GC14P076310	3.874730587	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ESRRB
SERPINF1	Serpin Family F Member 1	Protein Coding	53	GC17P001766	3.874513626	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SERPINF1
IL7R	Interleukin 7 Receptor	Protein Coding	52	GC05P035852	3.873098135	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL7R
CD55	CD55 Molecule (Cromer Blood Group)	Protein Coding	56	GC01P207321	3.870641232	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD55

NPR3	Natriuretic Peptide Receptor 3	Protein Coding	52	GC05P032689	3.868728161	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPR3
HNRNPC	Heterogeneous Nuclear Ribonucleoprotein C	Protein Coding	48	GC14M023657	3.863192081	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HNRNPC
PTK2	Protein Tyrosine Kinase 2	Protein Coding	55	GC08M140657	3.861723185	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTK2
NME2	NME/NM23 Nucleoside Diphosphate Kinase 2	Protein Coding	52	GC17P051165	3.860429049	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NME2
SLC16A10	Solute Carrier Family 16 Member 10	Protein Coding	44	GC06P111087	3.857141495	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC16A10
IRAK1	Interleukin 1 Receptor Associated Kinase 1	Protein Coding	56	GC0XM154010	3.856891394	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IRAK1
IGFBP5	Insulin Like Growth Factor Binding Protein 5	Protein Coding	49	GC02M216672	3.853482246	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IGFBP5
KHDRBS1	KH RNA Binding Domain Containing, Signal Transduction Associated 1	Protein Coding	47	GC01P032013	3.852282047	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KHDRBS1
GARS1	Glycyl-TRNA Synthetase 1	Protein Coding	52	GC07P030580	3.85188961	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GARS1
ACSM5	Acyl-CoA Synthetase Medium Chain Family Member 5	Protein Coding	44	GC16P020410	3.850166559	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACSM5
FGA	Fibrinogen Alpha Chain	Protein Coding	56	GC04M154583	3.84565568	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGA
ADCYAP1	Adenylate Cyclase Activating Polypeptide 1	Protein Coding	47	GC18P000895	3.83665657	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADCYAP1
KEAP1	Kelch Like ECH Associated Protein 1	Protein Coding	56	GC19M010486	3.835975885	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KEAP1
PDE4A	Phosphodiesterase 4A	Protein Coding	51	GC19P010416	3.835870028	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDE4A
CCKAR	Cholecystokinin A Receptor	Protein Coding	52	GC04M026483	3.835656404	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCKAR

PRKACG	Protein Kinase CAMP-Activated Catalytic Subunit Gamma	Protein Coding	53	GC09M069046	3.832050562	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRKACG
ACSL5	Acyl-CoA Synthetase Long Chain Family Member 5	Protein Coding	49	GC10P112374	3.831627607	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACSL5
PNMT	Phenylethanolamine N-Methyltransferase	Protein Coding	50	GC17P039667	3.831362724	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PNMT
CGB5	Chorionic Gonadotropin Subunit Beta 5	Protein Coding	37	GC19P049043	3.828410149	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CGB5
GUK1	Guanylate Kinase 1	Protein Coding	47	GC01P228139	3.826385498	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GUK1
AGMO	Alkylglycerol Monooxygenase	Protein Coding	42	GC07M015117	3.824967861	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AGMO
SYK	Spleen Associated Tyrosine Kinase	Protein Coding	56	GC09P092704	3.822367668	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SYK
CERS6	Ceramide Synthase 6	Protein Coding	47	GC02P168455	3.821056366	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CERS6
SEC14L2	SEC14 Like Lipid Binding 2	Protein Coding	46	GC22P030396	3.81583333	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SEC14L2
SORT1	Sortilin 1	Protein Coding	51	GC01M109310	3.81338954	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SORT1
RARB	Retinoic Acid Receptor Beta	Protein Coding	56	GC03P024689	3.813275337	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RARB
LRP8	LDL Receptor Related Protein 8	Protein Coding	50	GC01M053243	3.812624216	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LRP8
ITGB1	Integrin Subunit Beta 1	Protein Coding	57	GC10M033645	3.809351444	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGB1
SRY	Sex Determining Region Y	Protein Coding	42	GC0YM002698	3.805636406	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SRY
MGST1	Microsomal Glutathione S-Transferase 1	Protein Coding	47	GC12P016347	3.804653168	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MGST1

CANX	Calnexin	Protein Coding	51	GC05P179678	3.798567057	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CANX
PLA2G2E	Phospholipase A2 Group IIE	Protein Coding	43	GC01M019920	3.789566994	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLA2G2E
SULT1B1	Sulfotransferase Family 1B Member 1	Protein Coding	47	GC04M069721	3.787377834	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SULT1B1
NR4A2	Nuclear Receptor Subfamily 4 Group A Member 2	Protein Coding	53	GC02M156324	3.786156893	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NR4A2
SMN2	Survival Of Motor Neuron 2, Centromeric	Protein Coding	46	GC05P070049	3.781511784	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SMN2
BTBD10	BTB Domain Containing 10	Protein Coding	43	GC11M013387	3.778814316	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BTBD10
ADAR	Adenosine Deaminase RNA Specific	Protein Coding	52	GC01M154599	3.766012192	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADAR
CTSK	Cathepsin K	Protein Coding	57	GC01M152758	3.764894962	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTSK
TRAF6	TNF Receptor Associated Factor 6	Protein Coding	52	GC11M036467	3.761487722	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRAF6
CNR2	Cannabinoid Receptor 2	Protein Coding	51	GC01M023870	3.759726048	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CNR2
DGKA	Diacylglycerol Kinase Alpha	Protein Coding	51	GC12P055927	3.755910397	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DGKA
CYP3A43	Cytochrome P450 Family 3 Subfamily A Member 43	Protein Coding	46	GC07P099833	3.754785776	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP3A43
DRD4	Dopamine Receptor D4	Protein Coding	52	GC11P002096	3.753496647	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DRD4
PCSK2	Proprotein Convertase Subtilisin/Kexin Type 2	Protein Coding	50	GC20P017226	3.745601177	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PCSK2
STAT5B	Signal Transducer And Activator Of Transcription 5B	Protein Coding	56	GC17M042199	3.744742155	https://www.genecards.org/cgi-bin/carddisp.pl?gene=STAT5B

TJP2	Tight Junction Protein 2	Protein Coding	51	GC09P069121	3.744441032	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TJP2
KCNJ2	Potassium Inwardly Rectifying Channel Subfamily J Member 2	Protein Coding	55	GC17P070168	3.729247332	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNJ2
GPAT3	Glycerol-3-Phosphate Acyltransferase 3	Protein Coding	47	GC04P083536	3.729138851	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GPAT3
SIK2	Salt Inducible Kinase 2	Protein Coding	52	GC11P111989	3.725149632	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SIK2
TWIST1	Twist Family BHLH Transcription Factor 1	Protein Coding	52	GC07M019020	3.721744061	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TWIST1
GLRX	Glutaredoxin	Protein Coding	50	GC05M095752	3.718975544	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GLRX
PAM	Peptidylglycine Alpha-Amidating Monooxygenase	Protein Coding	50	GC05P102753	3.717186213	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PAM
SELL	Selectin L	Protein Coding	50	GC01M169690	3.716027021	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SELL
SULT4A1	Sulfotransferase Family 4A Member 1	Protein Coding	46	GC22M043824	3.715360165	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SULT4A1
HNRNPD	Heterogeneous Nuclear Ribonucleoprotein D	Protein Coding	50	GC04M082352	3.702080965	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HNRNPD
CERS2	Ceramide Synthase 2	Protein Coding	48	GC01M150960	3.701366425	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CERS2
GPAT2	Glycerol-3-Phosphate Acyltransferase 2, Mitochondrial	Protein Coding	39	GC02M098745	3.699226379	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GPAT2
CASP1	Caspase 1	Protein Coding	56	GC11M105025	3.698204041	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CASP1
CAV2	Caveolin 2	Protein Coding	50	GC07P116287	3.696254253	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CAV2
PSAT1	Phosphoserine Aminotransferase 1	Protein Coding	54	GC09P078297	3.693089008	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PSAT1

TGM2	Transglutaminase 2	Protein Coding	54	GC20M038127	3.692184448	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TGM2
TLR3	Toll Like Receptor 3	Protein Coding	58	GC04P186059	3.689142704	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TLR3
WARS1	Tryptophanyl-TRNA Synthetase 1	Protein Coding	52	GC14M103181	3.687915325	https://www.genecards.org/cgi-bin/carddisp.pl?gene=WARS1
GSTA4	Glutathione S-Transferase Alpha 4	Protein Coding	47	GC06M052977	3.68756938	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GSTA4
HSD17B12	Hydroxysteroid 17-Beta Dehydrogenase 12	Protein Coding	46	GC11P043652	3.686990738	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSD17B12
LIPF	Lipase F, Gastric Type	Protein Coding	49	GC10P088664	3.683813572	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LIPF
SCD5	Stearoyl-CoA Desaturase 5	Protein Coding	48	GC04M082629	3.682816505	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SCD5
PTGES3	Prostaglandin E Synthase 3	Protein Coding	51	GC12M057070	3.682389259	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTGES3
AZIN2	Antizyme Inhibitor 2	Protein Coding	47	GC01P033081	3.678210258	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AZIN2
BMP4	Bone Morphogenetic Protein 4	Protein Coding	55	GC14M053949	3.675657272	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BMP4
PLCB4	Phospholipase C Beta 4	Protein Coding	52	GC20P009024	3.674196005	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLCB4
MBL2	Mannose Binding Lectin 2	Protein Coding	53	GC10M052760	3.673710585	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MBL2
AGTR2	Angiotensin II Receptor Type 2	Protein Coding	51	GC0XP116170	3.668705702	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AGTR2
RPL11	Ribosomal Protein L11	Protein Coding	55	GC01P023691	3.668517351	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPL11
TRPV1	Transient Receptor Potential Cation Channel Subfamily V Member 1	Protein Coding	55	GC17M003565	3.657725573	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRPV1

CNTF	Ciliary Neurotrophic Factor	Protein Coding	47	GC11P058622	3.656933069	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CNTF
IL2RA	Interleukin 2 Receptor Subunit Alpha	Protein Coding	57	GC10M006010	3.654792786	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL2RA
ACSM4	Acyl-CoA Synthetase Medium Chain Family Member 4	Protein Coding	38	GC12P007304	3.649587154	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACSM4
EIF4EBP1	Eukaryotic Translation Initiation Factor 4E Binding Protein 1	Protein Coding	53	GC08P038607	3.646658659	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EIF4EBP1
BIRC5	Baculoviral IAP Repeat Containing 5	Protein Coding	52	GC17P078214	3.645214796	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BIRC5
CALM1	Calmodulin 1	Protein Coding	52	GC14P090396	3.641564131	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CALM1
ETV6	ETS Variant Transcription Factor 6	Protein Coding	52	GC12P011649	3.639504433	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ETV6
BMPR2	Bone Morphogenetic Protein Receptor Type 2	Protein Coding	57	GC02P202376	3.636691809	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BMPR2
IL1RAPL2	Interleukin 1 Receptor Accessory Protein Like 2	Protein Coding	46	GC0XP104566	3.632210255	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL1RAPL2
SLC6A2	Solute Carrier Family 6 Member 2	Protein Coding	54	GC16P055656	3.631602526	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC6A2
PCBP2	Poly(RC) Binding Protein 2	Protein Coding	48	GC12P053452	3.630653381	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PCBP2
PIK3R2	Phosphoinositide-3-Kinase Regulatory Subunit 2	Protein Coding	56	GC19P018153	3.626128674	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PIK3R2
ACOT2	Acyl-CoA Thioesterase 2	Protein Coding	44	GC14P073567	3.625527143	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACOT2
ACP3	Acid Phosphatase 3	Protein Coding	50	GC03P135034	3.619726658	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACP3
C4A	Complement C4A (Rodgers Blood Group)	Protein Coding	50	GC06P092175	3.611579657	https://www.genecards.org/cgi-bin/carddisp.pl?gene=C4A

GPAT4	Glycerol-3-Phosphate Acyltransferase 4	Protein Coding	44	GC08P041577	3.610387325	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GPAT4
THPO	Thrombopoietin	Protein Coding	50	GC03M184371	3.601413965	https://www.genecards.org/cgi-bin/carddisp.pl?gene=THPO
HSD17B8	Hydroxysteroid 17-Beta Dehydrogenase 8	Protein Coding	46	GC06P092209	3.600556135	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSD17B8
PGAM1	Phosphoglycerate Mutase 1	Protein Coding	51	GC10P097426	3.594974279	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PGAM1
ANXA1	Annexin A1	Protein Coding	54	GC09P073151	3.584882736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ANXA1
CYP20A1	Cytochrome P450 Family 20 Subfamily A Member 1	Protein Coding	44	GC02P203238	3.581699133	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP20A1
CD79B	CD79b Molecule	Protein Coding	54	GC17M063928	3.581664562	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD79B
PLEK	Pleckstrin	Protein Coding	47	GC02P068365	3.565039635	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLEK
UGT2B11	UDP Glucuronosyltransferase Family 2 Member B11	Protein Coding	44	GC04M069199	3.564004183	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UGT2B11
NOX4	NADPH Oxidase 4	Protein Coding	50	GC11M089324	3.563686609	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NOX4
ATP2A3	ATPase Sarcoplasmic/Endoplasmic Reticulum Ca ²⁺ Transporting 3	Protein Coding	52	GC17M003923	3.559276819	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATP2A3
SOCS1	Suppressor Of Cytokine Signaling 1	Protein Coding	52	GC16M012467	3.558186293	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SOCS1
TRH	Thyrotropin Releasing Hormone	Protein Coding	48	GC03P129974	3.556975603	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRH
CA1	Carbonic Anhydrase 1	Protein Coding	54	GC08M085327	3.556869507	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CA1
NR4A3	Nuclear Receptor Subfamily 4 Group A Member 3	Protein Coding	49	GC09P099821	3.555757046	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NR4A3

PRDX6	Peroxiredoxin 6	Protein Coding	53	GC01P173477	3.552488565	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRDX6
SH2B1	SH2B Adaptor Protein 1	Protein Coding	48	GC16P042648	3.546960115	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SH2B1
GRIK2	Glutamate Ionotropic Receptor Kainate Type Subunit 2	Protein Coding	56	GC06P100962	3.546540976	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRIK2
SPARC	Secreted Protein Acidic And Cysteine Rich	Protein Coding	56	GC05M151661	3.546322346	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SPARC
TGFB2	Transforming Growth Factor Beta 2	Protein Coding	58	GC01P218345	3.546247482	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TGFB2
SCT	Secretin	Protein Coding	39	GC11M000626	3.542740107	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SCT
ACSM6	Acyl-CoA Synthetase Medium Chain Family Member 6	Protein Coding	37	GC10P095194	3.540477037	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACSM6
STAT5A	Signal Transducer And Activator Of Transcription 5A	Protein Coding	55	GC17P042287	3.540235758	https://www.genecards.org/cgi-bin/carddisp.pl?gene=STAT5A
ELOVL6	ELOVL Fatty Acid Elongase 6	Protein Coding	48	GC04M110045	3.538087368	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ELOVL6
TBXA2R	Thromboxane A2 Receptor	Protein Coding	56	GC19M003594	3.5368433	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TBXA2R
LYN	LYN Proto-Oncogene, Src Family Tyrosine Kinase	Protein Coding	55	GC08P055879	3.53446126	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LYN
AKR1B15	Aldo-Keto Reductase Family 1 Member B15	Protein Coding	37	GC07P134549	3.529265165	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AKR1B15
F8	Coagulation Factor VIII	Protein Coding	54	GC0XM154835	3.527348995	https://www.genecards.org/cgi-bin/carddisp.pl?gene=F8
LGALS1	Galectin 1	Protein Coding	50	GC22P037675	3.524164677	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LGALS1
UGT2B28	UDP Glucuronosyltransferase Family 2 Member B28	Protein Coding	45	GC04P069280	3.52409482	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UGT2B28

SLC27A5	Solute Carrier Family 27 Member 5	Protein Coding	48	GC19M058479	3.523803711	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC27A5
LGALS3	Galectin 3	Protein Coding	52	GC14P055124	3.522946119	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LGALS3
EEF2	Eukaryotic Translation Elongation Factor 2	Protein Coding	55	GC19M003976	3.522862434	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EEF2
CGA	Glycoprotein Hormones, Alpha Polypeptide	Protein Coding	51	GC06M087085	3.522000551	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CGA
HAO1	Hydroxyacid Oxidase 1	Protein Coding	48	GC20M008508	3.519673824	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HAO1
CD34	CD34 Molecule	Protein Coding	52	GC01M207880	3.518568277	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD34
TOP1	DNA Topoisomerase I	Protein Coding	55	GC20P041028	3.516348362	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TOP1
PSMC6	Proteasome 26S Subunit, ATPase 6	Protein Coding	46	GC14P052707	3.516238689	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PSMC6
HAS2	Hyaluronan Synthase 2	Protein Coding	47	GC08M121594	3.513864279	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HAS2
HSPA1A	Heat Shock Protein Family A (Hsp70) Member 1A	Protein Coding	53	GC06P092171	3.513021469	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSPA1A
DLK1	Delta Like Non-Canonical Notch Ligand 1	Protein Coding	51	GC14P110708	3.512380123	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DLK1
UBC	Ubiquitin C	Protein Coding	49	GC12M124911	3.51091814	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UBC
AGRN	Agrin	Protein Coding	52	GC01P001020	3.509435892	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AGRN
CA8	Carbonic Anhydrase 8	Protein Coding	53	GC08M060187	3.495261669	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CA8
HNRNPU	Heterogeneous Nuclear Ribonucleoprotein U	Protein Coding	50	GC01M244844	3.492166042	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HNRNPU

TOP2A	DNA Topoisomerase II Alpha	Protein Coding	57	GC17M040388	3.486743212	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TOP2A
TNFSF10	TNF Superfamily Member 10	Protein Coding	51	GC03M172505	3.47996521	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNFSF10
INPP5J	Inositol Polyphosphate-5-Phosphatase J	Protein Coding	48	GC22P044897	3.474000692	https://www.genecards.org/cgi-bin/carddisp.pl?gene=INPP5J
SLC22A1	Solute Carrier Family 22 Member 1	Protein Coding	51	GC06P160121	3.473587513	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC22A1
HMGB1	High Mobility Group Box 1	Protein Coding	54	GC13M030456	3.468208075	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HMGB1
MYH9	Myosin Heavy Chain 9	Protein Coding	55	GC22M036281	3.46468854	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYH9
OLR1	Oxidized Low Density Lipoprotein Receptor 1	Protein Coding	50	GC12M022629	3.458401203	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OLR1
GP1BA	Glycoprotein Ib Platelet Subunit Alpha	Protein Coding	54	GC17P004932	3.456385374	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GP1BA
GRIK1	Glutamate Ionotropic Receptor Kainate Type Subunit 1	Protein Coding	53	GC21M029536	3.454291821	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRIK1
ERBB4	Erb-B2 Receptor Tyrosine Kinase 4	Protein Coding	61	GC02M211375	3.447304487	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ERBB4
NFKB2	Nuclear Factor Kappa B Subunit 2	Protein Coding	59	GC10P102394	3.43983674	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NFKB2
ELOVL4	ELOVL Fatty Acid Elongase 4	Protein Coding	52	GC06M079914	3.439374208	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ELOVL4
CD28	CD28 Molecule	Protein Coding	55	GC02P203706	3.433174372	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD28
THEM5	Thioesterase Superfamily Member 5	Protein Coding	41	GC01M152803	3.431970835	https://www.genecards.org/cgi-bin/carddisp.pl?gene=THEM5
PDZK1	PDZ Domain Containing 1	Protein Coding	47	GC01M145670	3.431917667	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDZK1

SLC51A	Solute Carrier Family 51 Subunit Alpha	Protein Coding	45	GC03P196211	3.431206226	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC51A
ATF3	Activating Transcription Factor 3	Protein Coding	51	GC01P212565	3.43088913	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATF3
PKD1	Polycystin 1, Transient Receptor Potential Channel Interacting	Protein Coding	52	GC16M008093	3.430216074	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PKD1
HARS1	Histidyl-TRNA Synthetase 1	Protein Coding	51	GC05M140673	3.425354958	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HARS1
COL1A2	Collagen Type 1 Alpha 2 Chain	Protein Coding	54	GC07P094394	3.421122074	https://www.genecards.org/cgi-bin/carddisp.pl?gene=COL1A2
FGB	Fibrinogen Beta Chain	Protein Coding	53	GC04P154604	3.418199778	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGB
CEACAM5	CEA Cell Adhesion Molecule 5	Protein Coding	50	GC19P072938	3.411329746	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CEACAM5
CDKN1B	Cyclin Dependent Kinase Inhibitor 1B	Protein Coding	54	GC12P023759	3.411257982	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDKN1B
PSMB8	Proteasome 20S Subunit Beta 8	Protein Coding	56	GC06M032840	3.408988237	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PSMB8
DRD1	Dopamine Receptor D1	Protein Coding	51	GC05M175440	3.405468225	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DRD1
IL11	Interleukin 11	Protein Coding	47	GC19M055364	3.404547215	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL11
SLC8A1	Solute Carrier Family 8 Member A1	Protein Coding	51	GC02M040078	3.403540134	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC8A1
HDAC4	Histone Deacetylase 4	Protein Coding	59	GC02M239048	3.39973402	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HDAC4
PTPN2	Protein Tyrosine Phosphatase Non-Receptor Type 2	Protein Coding	54	GC18M027584	3.393139839	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPN2
MMP14	Matrix Metalloproteinase 14	Protein Coding	57	GC14P034667	3.391114712	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMP14

YARS1	Tyrosyl-TRNA Synthetase 1	Protein Coding	50	GC01M032776	3.390839338	https://www.genecards.org/cgi-bin/carddisp.pl?gene=YARS1
PRLR	Prolactin Receptor	Protein Coding	56	GC05M035048	3.390128136	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRLR
TUBB	Tubulin Beta Class I	Protein Coding	57	GC06P092134	3.388349056	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TUBB
IRF1	Interferon Regulatory Factor 1	Protein Coding	53	GC05M132440	3.387298346	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IRF1
PABPC1	Poly(A) Binding Protein Cytoplasmic 1	Protein Coding	49	GC08M100685	3.384418249	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PABPC1
BCL2L1	BCL2 Like 1	Protein Coding	55	GC20M031664	3.38163662	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BCL2L1
CYBB	Cytochrome B-245 Beta Chain	Protein Coding	56	GC0XP037780	3.380608082	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYBB
OXTR	Oxytocin Receptor	Protein Coding	53	GC03M008767	3.37797904	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OXTR
CERS5	Ceramide Synthase 5	Protein Coding	46	GC12M050129	3.376144171	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CERS5
AWAT2	Acyl-CoA Wax Alcohol Acyltransferase 2	Protein Coding	38	GC0XM070040	3.374199867	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AWAT2
RAC2	Rac Family Small GTPase 2	Protein Coding	58	GC22M061462	3.370952129	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RAC2
IGF2BP3	Insulin Like Growth Factor 2 mRNA Binding Protein 3	Protein Coding	48	GC07M023354	3.36882925	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IGF2BP3
PBX1	PBX Homeobox 1	Protein Coding	55	GC01P164524	3.368083	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PBX1
DLG1	Discs Large MAGUK Scaffold Protein 1	Protein Coding	50	GC03M197042	3.367190838	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DLG1
HSP90B1	Heat Shock Protein 90 Beta Family Member 1	Protein Coding	53	GC12P103930	3.367063761	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSP90B1

SLC38A3	Solute Carrier Family 38 Member 3	Protein Coding	45	GC03P050205	3.364940166	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC38A3
RHD	Rh Blood Group D Antigen	Protein Coding	48	GC01P025272	3.362401962	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RHD
PLD2	Phospholipase D2	Protein Coding	53	GC17P004808	3.361949444	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLD2
PIM1	Pim-1 Proto-Oncogene, Serine/Threonine Kinase	Protein Coding	56	GC06P092302	3.3618958	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PIM1
CDH13	Cadherin 13	Protein Coding	51	GC16P082626	3.359909773	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDH13
PTPRC	Protein Tyrosine Phosphatase Receptor Type C	Protein Coding	59	GC01P198607	3.355715752	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPRC
ESD	Esterase D	Protein Coding	50	GC13M046771	3.354079723	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ESD
GPBR1	G Protein-Coupled Estrogen Receptor 1	Protein Coding	48	GC07P003391	3.351549625	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GPBR1
MAP2K2	Mitogen-Activated Protein Kinase Kinase 2	Protein Coding	61	GC19M004090	3.350414038	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAP2K2
GRIP1	Glutamate Receptor Interacting Protein 1	Protein Coding	50	GC12M066347	3.350006342	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRIP1
UCHL1	Ubiquitin C-Terminal Hydrolase L1	Protein Coding	59	GC04P041256	3.342181206	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UCHL1
TP73	Tumor Protein P73	Protein Coding	52	GC01P003652	3.339853287	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TP73
EEF1A1	Eukaryotic Translation Elongation Factor 1 Alpha 1	Protein Coding	50	GC06M074523	3.338254929	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EEF1A1
ELOVL5	ELOVL Fatty Acid Elongase 5	Protein Coding	51	GC06M053267	3.337735653	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ELOVL5
GRM7	Glutamate Metabotropic Receptor 7	Protein Coding	54	GC03P006770	3.334997654	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRM7

HBEGF	Heparin Binding EGF Like Growth Factor	Protein Coding	50	GC05M140332	3.331227303	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HBEGF
SOS1	SOS Ras/Rac Guanine Nucleotide Exchange Factor 1	Protein Coding	56	GC02M039054	3.329431534	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SOS1
BRS3	Bombesin Receptor Subtype 3	Protein Coding	48	GC0XP136500	3.328694344	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BRS3
CD59	CD59 Molecule (CD59 Blood Group)	Protein Coding	53	GC11M033704	3.327222586	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD59
CASP9	Caspase 9	Protein Coding	53	GC01M015491	3.326052904	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CASP9
KRT8	Keratin 8	Protein Coding	53	GC12M052897	3.321171284	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KRT8
OGA	O-GlcNAcase	Protein Coding	47	GC10M101785	3.319125414	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OGA
PDIA3	Protein Disulfide Isomerase Family A Member 3	Protein Coding	51	GC15P043746	3.316093206	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDIA3
SLC18A2	Solute Carrier Family 18 Member A2	Protein Coding	53	GC10P117241	3.314780474	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC18A2
LIF	LIF Interleukin 6 Family Cytokine	Protein Coding	50	GC22M030240	3.313483238	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LIF
ADAM10	ADAM Metallopeptidase Domain 10	Protein Coding	60	GC15M058588	3.312374353	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADAM10
HTR3A	5-Hydroxytryptamine Receptor 3A	Protein Coding	53	GC11P113975	3.311017513	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HTR3A
PDE3A	Phosphodiesterase 3A	Protein Coding	56	GC12P023897	3.31002903	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDE3A
ACTN4	Actinin Alpha 4	Protein Coding	53	GC19P038647	3.30234313	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACTN4
PDGFRA	Platelet Derived Growth Factor Receptor Alpha	Protein Coding	60	GC04P054229	3.300298452	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDGFRA

CD5	CD5 Molecule	Protein Coding	49	GC11P061118	3.298510313	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD5
MKKS	MKKS Centrosomal Shuttling Protein	Protein Coding	46	GC20M010424	3.296190262	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MKKS
MBP	Myelin Basic Protein	Protein Coding	51	GC18M076978	3.292306185	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MBP
GATA1	GATA Binding Protein 1	Protein Coding	53	GC0XP048786	3.289469004	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GATA1
PRLH	Prolactin Releasing Hormone	Protein Coding	37	GC02P237566	3.283510208	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRLH
FLT1	Fms Related Receptor Tyrosine Kinase 1	Protein Coding	57	GC13M028300	3.281445742	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FLT1
NR4A1	Nuclear Receptor Subfamily 4 Group A Member 1	Protein Coding	54	GC12P052022	3.275763988	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NR4A1
DUSP1	Dual Specificity Phosphatase 1	Protein Coding	52	GC05M172768	3.268606186	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DUSP1
NMT1	N-Myristoyltransferase 1	Protein Coding	50	GC17P062083	3.262718201	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NMT1
SMAD2	SMAD Family Member 2	Protein Coding	59	GC18M047809	3.257688046	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SMAD2
F2RL1	F2R Like Trypsin Receptor 1	Protein Coding	51	GC05P076818	3.256936073	https://www.genecards.org/cgi-bin/carddisp.pl?gene=F2RL1
MT3	Metallothionein 3	Protein Coding	44	GC16P056589	3.255939245	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MT3
AGPAT3	1-Acylglycerol-3-Phosphate O-Acyltransferase 3	Protein Coding	46	GC21P043865	3.250079155	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AGPAT3
LRRK2	Leucine Rich Repeat Kinase 2	Protein Coding	56	GC12P040196	3.246121168	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LRRK2
SGCB	Sarcoglycan Beta	Protein Coding	47	GC04M052019	3.243461609	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SGCB

CRHR2	Corticotropin Releasing Hormone Receptor 2	Protein Coding	50	GC07M030651	3.241627216	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CRHR2
PROS1	Protein S	Protein Coding	55	GC03M093873	3.237989426	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PROS1
TRIM63	Tripartite Motif Containing 63	Protein Coding	48	GC01M026066	3.235760689	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRIM63
IL16	Interleukin 16	Protein Coding	48	GC15P081159	3.232122421	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL16
DRD3	Dopamine Receptor D3	Protein Coding	51	GC03M114128	3.227733612	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DRD3
ALK	ALK Receptor Tyrosine Kinase	Protein Coding	59	GC02M029190	3.226660728	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALK
NF1	Neurofibromin 1	Protein Coding	54	GC17P031094	3.22521162	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NF1
BUD23	BUD23 RRNA Methyltransferase And Ribosome Maturation Factor	Protein Coding	44	GC07P076357	3.224797249	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BUD23
ATXN3	Ataxin 3	Protein Coding	52	GC14M103083	3.224014997	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATXN3
EIF4E	Eukaryotic Translation Initiation Factor 4E	Protein Coding	56	GC04M098879	3.223826408	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EIF4E
JAK1	Janus Kinase 1	Protein Coding	60	GC01M064833	3.22107625	https://www.genecards.org/cgi-bin/carddisp.pl?gene=JAK1
SAT2	Spermidine/Spermine N1-Acetyltransferase Family Member 2	Protein Coding	43	GC17M007626	3.216407537	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SAT2
CHRM3	Cholinergic Receptor Muscarinic 3	Protein Coding	55	GC01P239386	3.215517282	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHRM3
KRT14	Keratin 14	Protein Coding	53	GC17M041582	3.214873791	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KRT14
LALBA	Lactalbumin Alpha	Protein Coding	45	GC12M048567	3.212843418	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LALBA

TAC1	Tachykinin Precursor 1	Protein Coding	48	GC07P097731	3.212556362	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TAC1
SMAD6	SMAD Family Member 6	Protein Coding	53	GC15P066702	3.210130453	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SMAD6
CYSLTR2	Cysteinyl Leukotriene Receptor 2	Protein Coding	54	GC13P048653	3.206436157	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYSLTR2
MAG	Myelin Associated Glycoprotein	Protein Coding	54	GC19P035292	3.204558611	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAG
KHDRBS3	KH RNA Binding Domain Containing, Signal Transduction Associated	Protein Coding	45	GC08P135457	3.195662022	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KHDRBS3
ACTN1	Actinin Alpha 1	Protein Coding	56	GC14M068874	3.193297863	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACTN1
TTF2	Transcription Termination Factor 2	Protein Coding	46	GC01P117060	3.191391945	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TTF2
SLC22A8	Solute Carrier Family 22 Member 8	Protein Coding	49	GC11M099608	3.190941095	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC22A8
UBE3A	Ubiquitin Protein Ligase E3A	Protein Coding	53	GC15M025333	3.18576026	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UBE3A
CSF1R	Colony Stimulating Factor 1 Receptor	Protein Coding	59	GC05M150053	3.183142424	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CSF1R
SLC1A2	Solute Carrier Family 1 Member 2	Protein Coding	56	GC11M035267	3.181488752	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC1A2
ANG	Angiogenin	Protein Coding	51	GC14P034388	3.176154375	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ANG
RPA2	Replication Protein A2	Protein Coding	50	GC01M028119	3.170302391	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPA2
SERPING1	Serpin Family G Member 1	Protein Coding	54	GC11P057597	3.169795513	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SERPING1
PTGER3	Prostaglandin E Receptor 3	Protein Coding	53	GC01M070852	3.167470455	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTGER3

JAK3	Janus Kinase 3	Protein Coding	58	GC19M017824	3.165206909	https://www.genecards.org/cgi-bin/carddisp.pl?gene=JAK3
CDC42	Cell Division Cycle 42	Protein Coding	57	GC01P022052	3.15984416	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDC42
WNT5A	Wnt Family Member 5A	Protein Coding	56	GC03M055465	3.15939784	https://www.genecards.org/cgi-bin/carddisp.pl?gene=WNT5A
S100A9	S100 Calcium Binding Protein A9	Protein Coding	50	GC01P153357	3.159015179	https://www.genecards.org/cgi-bin/carddisp.pl?gene=S100A9
CYGB	Cytoglobin	Protein Coding	45	GC17M076527	3.154545784	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYGB
KMT2A	Lysine Methyltransferase 2A	Protein Coding	54	GC11P118436	3.151390553	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KMT2A
PDGFRL	Platelet Derived Growth Factor Receptor Like	Protein Coding	50	GC08P017576	3.149273634	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDGFRL
GRK2	G Protein-Coupled Receptor Kinase 2	Protein Coding	53	GC11P067266	3.148638248	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRK2
KITLG	KIT Ligand	Protein Coding	53	GC12M088492	3.148565292	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KITLG
CDH2	Cadherin 2	Protein Coding	59	GC18M028088	3.1409235	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDH2
CSNK2A2	Casein Kinase 2 Alpha 2	Protein Coding	53	GC16M058157	3.137202501	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CSNK2A2
POMGNT2	Protein O-Linked Mannose N-Acetylglucosaminyltransferase 2 (Beta 1,4-)	Protein Coding	44	GC03M043121	3.133676291	https://www.genecards.org/cgi-bin/carddisp.pl?gene=POMGNT2
ANXA2	Annexin A2	Protein Coding	55	GC15M060347	3.130560637	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ANXA2
DDR1	Discoidin Domain Receptor Tyrosine Kinase 1	Protein Coding	53	GC06P092137	3.126752853	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DDR1
CDK6	Cyclin Dependent Kinase 6	Protein Coding	59	GC07M092604	3.125250101	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDK6

MLN	Motilin	Protein Coding	40	GC06M033794	3.12496376	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MLN
GSN	Gelsolin	Protein Coding	56	GC09P121201	3.119424343	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GSN
PTCH1	Patched 1	Protein Coding	57	GC09M095442	3.118463278	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTCH1
SCG5	Secretogranin V	Protein Coding	43	GC15P032641	3.115576029	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SCG5
ITPR1	Inositol 1,4,5-Trisphosphate Receptor Type 1	Protein Coding	55	GC03P004486	3.114220381	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITPR1
ELOVL7	ELOVL Fatty Acid Elongase 7	Protein Coding	44	GC05M060751	3.107929945	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ELOVL7
CPQ	Carboxypeptidase Q	Protein Coding	44	GC08P096645	3.10552454	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CPQ
STC2	Stanniocalcin 2	Protein Coding	48	GC05M173314	3.101755142	https://www.genecards.org/cgi-bin/carddisp.pl?gene=STC2
SLC15A1	Solute Carrier Family 15 Member 1	Protein Coding	50	GC13M098683	3.098032951	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC15A1
CA10	Carbonic Anhydrase 10	Protein Coding	46	GC17M051630	3.09686017	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CA10
TPR	Translocated Promoter Region, Nuclear Basket Protein	Protein Coding	50	GC01M186323	3.096314192	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TPR
CALB1	Calbindin 1	Protein Coding	49	GC08M090058	3.095009327	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CALB1
REL	REL Proto-Oncogene, NF-KB Subunit	Protein Coding	53	GC02P060881	3.093712807	https://www.genecards.org/cgi-bin/carddisp.pl?gene=REL
DDX5	DEAD-Box Helicase 5	Protein Coding	52	GC17M064498	3.092330456	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DDX5
PDCD1	Programmed Cell Death 1	Protein Coding	55	GC02M241849	3.091902733	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDCD1

MSR1	Macrophage Scavenger Receptor 1	Protein Coding	52	GC08M016107	3.090070248	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MSR1
RAN	RAN, Member RAS Oncogene Family	Protein Coding	50	GC12P130871	3.086040258	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RAN
CDC25A	Cell Division Cycle 25A	Protein Coding	54	GC03M048195	3.084305286	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDC25A
ZDHHC5	Zinc Finger DHHC-Type Palmitoyltransferase 5	Protein Coding	44	GC11P057670	3.082505703	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZDHHC5
HPR	Haptoglobin-Related Protein	Protein Coding	46	GC16P072373	3.08214283	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HPR
ACOT7	Acyl-CoA Thioesterase 7	Protein Coding	47	GC01M007591	3.081958532	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACOT7
PAK1	P21 (RAC1) Activated Kinase 1	Protein Coding	57	GC11M100100	3.080955982	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PAK1
HYAL2	Hyaluronidase 2	Protein Coding	51	GC03M050317	3.079611301	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HYAL2
DUSP19	Dual Specificity Phosphatase 19	Protein Coding	44	GC02P183078	3.077805996	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DUSP19
MAPK7	Mitogen-Activated Protein Kinase 7	Protein Coding	54	GC17P061131	3.077512503	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAPK7
BAD	BCL2 Associated Agonist Of Cell Death	Protein Coding	51	GC11M099650	3.075921774	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BAD
ADCY5	Adenylate Cyclase 5	Protein Coding	55	GC03M123282	3.074261189	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADCY5
ADAMTSL1	ADAMTS Like 1	Protein Coding	49	GC09P017906	3.073168039	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADAMTSL1
CCR5	C-C Motif Chemokine Receptor 5	Protein Coding	53	GC03P047615	3.073025703	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCR5
GZMB	Granzyme B	Protein Coding	54	GC14M024630	3.072257996	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GZMB

HRH1	Histamine Receptor H1	Protein Coding	52	GC03P013698	3.071516037	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HRH1
CERS3	Ceramide Synthase 3	Protein Coding	47	GC15M122864	3.067425251	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CERS3
NEFH	Neurofilament Heavy Chain	Protein Coding	52	GC22P029480	3.063281059	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NEFH
RPS6	Ribosomal Protein S6	Protein Coding	50	GC09M019375	3.061184645	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPS6
POU1F1	POU Class 1 Homeobox 1	Protein Coding	48	GC03M087259	3.055360556	https://www.genecards.org/cgi-bin/carddisp.pl?gene=POU1F1
AANAT	Aralkylamine N-Acetyltransferase	Protein Coding	46	GC17P076453	3.053804159	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AANAT
GNAQ	G Protein Subunit Alpha Q	Protein Coding	55	GC09M077716	3.051543951	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GNAQ
LCLAT1	Lysocardiolipin Acyltransferase 1	Protein Coding	43	GC02P030447	3.03848815	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LCLAT1
IL2RG	Interleukin 2 Receptor Subunit Gamma	Protein Coding	55	GC0XM071108	3.037034273	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL2RG
NOX1	NADPH Oxidase 1	Protein Coding	50	GC0XM100843	3.033960581	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NOX1
LPCAT3	Lysophosphatidylcholine Acyltransferase 3	Protein Coding	44	GC12M006976	3.032484293	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LPCAT3
DSPP	Dentin Sialophosphoprotein	Protein Coding	45	GC04P087608	3.03011179	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DSPP
EDNRB	Endothelin Receptor Type B	Protein Coding	56	GC13M077895	3.028537989	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EDNRB
CCN1	Cellular Communication Network Factor 1	Protein Coding	47	GC01P085581	3.02657032	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCN1
UTS2	Urotensin 2	Protein Coding	46	GC01M007843	3.025096655	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UTS2

CCND2	Cyclin D2	Protein Coding	55	GC12P023493	3.024245024	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCND2
RAB5A	RAB5A, Member RAS Oncogene Family	Protein Coding	51	GC03P019948	3.02043581	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RAB5A
MKI67	Marker Of Proliferation Ki-67	Protein Coding	51	GC10M128096	3.018312931	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MKI67
EIF2AK1	Eukaryotic Translation Initiation Factor 2 Alpha Kinase 1	Protein Coding	51	GC07M006022	3.017688274	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EIF2AK1
MAP3K7	Mitogen-Activated Protein Kinase Kinase Kinase 7	Protein Coding	57	GC06M090513	3.015327454	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAP3K7
CERS4	Ceramide Synthase 4	Protein Coding	48	GC19P008206	3.009953976	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CERS4
F2R	Coagulation Factor II Thrombin Receptor	Protein Coding	53	GC05P076716	3.008503437	https://www.genecards.org/cgi-bin/carddisp.pl?gene=F2R
CR1	Complement C3b/C4b Receptor 1 (Knops Blood Group)	Protein Coding	51	GC01P207496	3.006123543	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CR1
CCNA2	Cyclin A2	Protein Coding	52	GC04M121816	3.00469923	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCNA2
MSBP1	Minisatellite Binding Protein 1	Protein Coding	6	GC00U990213	3.003406048	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MSBP1
EIF4B	Eukaryotic Translation Initiation Factor 4B	Protein Coding	48	GC12P053006	3.003115654	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EIF4B
IYD	Iodotyrosine Deiodinase	Protein Coding	47	GC06P150368	3.001287222	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IYD
NSF	N-Ethylmaleimide Sensitive Factor, Vesicle Fusing ATPase	Protein Coding	51	GC17P046590	2.995528221	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NSF
LPCAT2	Lysophosphatidylcholine Acyltransferase 2	Protein Coding	48	GC16P055510	2.994910717	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LPCAT2
MGAT5	Alpha-1,6-Mannosylglycoprotein 6-Beta-N-Acetylglucosaminyltransferase	Protein Coding	48	GC02P134119	2.994092226	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MGAT5

TGFB1	Transforming Growth Factor Beta Induced	Protein Coding	53	GC05P136027	2.993627071	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TGFB1
TGIF1	TGFB Induced Factor Homeobox 1	Protein Coding	53	GC18P003411	2.990906	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TGIF1
ARHGAP1	Rho GTPase Activating Protein 1	Protein Coding	49	GC11M099353	2.990369797	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARHGAP1
FHL2	Four And A Half LIM Domains 2	Protein Coding	53	GC02M105357	2.988026142	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FHL2
ELOVL3	ELOVL Fatty Acid Elongase 3	Protein Coding	41	GC10P102226	2.985116005	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ELOVL3
GRM5	Glutamate Metabotropic Receptor 5	Protein Coding	53	GC11M088504	2.984042168	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRM5
HDAC6	Histone Deacetylase 6	Protein Coding	61	GC0XP048801	2.98350811	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HDAC6
AQP9	Aquaporin 9	Protein Coding	49	GC15P058138	2.982341766	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AQP9
CD274	CD274 Molecule	Protein Coding	52	GC09P005450	2.978649139	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD274
LNPEP	Leucyl And Cystinyl Aminopeptidase	Protein Coding	52	GC05P096935	2.976631403	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LNPEP
L1CAM	L1 Cell Adhesion Molecule	Protein Coding	54	GC0XM153864	2.975522995	https://www.genecards.org/cgi-bin/carddisp.pl?gene=L1CAM
PDPK1	3-Phosphoinositide Dependent Protein Kinase 1	Protein Coding	55	GC16P002537	2.972537518	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDPK1
DES	Desmin	Protein Coding	55	GC02P219418	2.970502853	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DES
PPBP	Pro-Platelet Basic Protein	Protein Coding	49	GC04M073986	2.964915276	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PPBP
BLM	BLM RecQ Like Helicase	Protein Coding	56	GC15P090717	2.963648319	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BLM

S100B	S100 Calcium Binding Protein B	Protein Coding	51	GC21M051379	2.961237431	https://www.genecards.org/cgi-bin/carddisp.pl?gene=S100B
RAB6A	RAB6A, Member RAS Oncogene Family	Protein Coding	47	GC11M099960	2.959060907	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RAB6A
HELLS	Helicase, Lymphoid Specific	Protein Coding	52	GC10P094814	2.958610773	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HELLS
PLAUR	Plasminogen Activator, Urokinase Receptor	Protein Coding	52	GC19M043646	2.953312874	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLAUR
ATF2	Activating Transcription Factor 2	Protein Coding	54	GC02M175072	2.950472832	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATF2
PTX3	Pentraxin 3	Protein Coding	50	GC03P157436	2.950279713	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTX3
CCND3	Cyclin D3	Protein Coding	53	GC06M041934	2.947537661	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCND3
ACSBG2	Acyl-CoA Synthetase Bubblegum Family Member 2	Protein Coding	44	GC19P006135	2.947389603	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACSBG2
ITGA5	Integrin Subunit Alpha 5	Protein Coding	56	GC12M055005	2.947187424	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGA5
MBOAT2	Membrane Bound O-Acyltransferase Domain Containing 2	Protein Coding	42	GC02M008853	2.943485022	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MBOAT2
PTPA	Protein Phosphatase 2 Phosphatase Activator	Protein Coding	50	GC09P129119	2.941158295	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPA
THOP1	Thimet Oligopeptidase 1	Protein Coding	48	GC19P002785	2.939968348	https://www.genecards.org/cgi-bin/carddisp.pl?gene=THOP1
ITGA2	Integrin Subunit Alpha 2	Protein Coding	53	GC05P052989	2.937961817	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGA2
BCL6	BCL6 Transcription Repressor	Protein Coding	52	GC03M187721	2.929877281	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BCL6
NPY4R	Neuropeptide Y Receptor Y4	Protein Coding	46	GC10M046461	2.929151297	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPY4R

BAIAP2L1	BAR/IMD Domain Containing Adaptor Protein 2 Like 1	Protein Coding	46	GC07M098294	2.926037312	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BAIAP2L1
MAPK9	Mitogen-Activated Protein Kinase 9	Protein Coding	56	GC05M180263	2.924700737	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAPK9
PRKD1	Protein Kinase D1	Protein Coding	56	GC14M029576	2.923382521	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRKD1
ADAM17	ADAM Metallopeptidase Domain 17	Protein Coding	58	GC02M009488	2.92128253	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADAM17
PRKCE	Protein Kinase C Epsilon	Protein Coding	55	GC02P045651	2.918762207	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRKCE
CBX5	Chromobox 5	Protein Coding	50	GC12M054230	2.918049335	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CBX5
CRYAB	Crystallin Alpha B	Protein Coding	53	GC11M111908	2.917105913	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CRYAB
WARS2	Tryptophanyl TRNA Synthetase 2, Mitochondrial	Protein Coding	51	GC01M119031	2.916296005	https://www.genecards.org/cgi-bin/carddisp.pl?gene=WARS2
SLC22A7	Solute Carrier Family 22 Member 7	Protein Coding	48	GC06P092349	2.914253712	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC22A7
ADORA1	Adenosine A1 Receptor	Protein Coding	53	GC01P203090	2.91362977	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADORA1
VTN	Vitronectin	Protein Coding	51	GC17M051189	2.913039684	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VTN
PTPN3	Protein Tyrosine Phosphatase Non-Receptor Type 3	Protein Coding	51	GC09M109375	2.905050516	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPN3
SULT1A4	Sulfotransferase Family 1A Member 4	Protein Coding	37	GC16P042717	2.904377937	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SULT1A4
TIMP3	TIMP Metallopeptidase Inhibitor 3	Protein Coding	50	GC22P044970	2.901615143	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TIMP3
SP3	Sp3 Transcription Factor	Protein Coding	50	GC02M173882	2.90152359	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SP3

PLK1	Polo Like Kinase 1	Protein Coding	58	GC16P024566	2.901216269	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLK1
CSNK1A1	Casein Kinase 1 Alpha 1	Protein Coding	55	GC05M149492	2.89967227	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CSNK1A1
GRB14	Growth Factor Receptor Bound Protein 14	Protein Coding	50	GC02M164492	2.891060591	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRB14
CXCR2	C-X-C Motif Chemokine Receptor 2	Protein Coding	57	GC02P218125	2.887881041	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CXCR2
ITK	IL2 Inducible T Cell Kinase	Protein Coding	59	GC05P157158	2.886702299	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITK
GNAO1	G Protein Subunit Alpha O1	Protein Coding	52	GC16P056231	2.884417772	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GNAO1
AVPR2	Arginine Vasopressin Receptor 2	Protein Coding	53	GC0XP153902	2.882421732	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AVPR2
SLC12A2	Solute Carrier Family 12 Member 2	Protein Coding	56	GC05P128083	2.881573439	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC12A2
CXCR1	C-X-C Motif Chemokine Receptor 1	Protein Coding	50	GC02M218162	2.877828598	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CXCR1
TRAF3	TNF Receptor Associated Factor 3	Protein Coding	53	GC14P110622	2.876880646	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRAF3
BIRC3	Baculoviral IAP Repeat Containing 3	Protein Coding	53	GC11P102317	2.874317646	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BIRC3
EPHA4	EPH Receptor A4	Protein Coding	57	GC02M221418	2.871276379	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPHA4
MYLK	Myosin Light Chain Kinase	Protein Coding	57	GC03M123610	2.868624449	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYLK
AGPAT5	1-Acylglycerol-3-Phosphate O-Acyltransferase 5	Protein Coding	48	GC08P006708	2.867540121	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AGPAT5
CDO1	Cysteine Dioxygenase Type 1	Protein Coding	47	GC05M115804	2.867174625	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDO1

FURIN	Furin, Paired Basic Amino Acid Cleaving Enzyme	Protein Coding	54	GC15P090868	2.866317272	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FURIN
INHA	Inhibin Subunit Alpha	Protein Coding	49	GC02P219569	2.866305113	https://www.genecards.org/cgi-bin/carddisp.pl?gene=INHA
CFL1	Cofilin 1	Protein Coding	52	GC11M065823	2.865230083	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CFL1
MCL1	MCL1 Apoptosis Regulator, BCL2 Family Member	Protein Coding	55	GC01M152731	2.86384058	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MCL1
GLYAT	Glycine-N-Acyltransferase	Protein Coding	46	GC11M099446	2.863129139	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GLYAT
HBG1	Hemoglobin Subunit Gamma 1	Protein Coding	47	GC11M006834	2.862811327	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HBG1
A2M	Alpha-2-Macroglobulin	Protein Coding	52	GC12M009067	2.858912945	https://www.genecards.org/cgi-bin/carddisp.pl?gene=A2M
PTGER4	Prostaglandin E Receptor 4	Protein Coding	52	GC05P040679	2.858474731	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTGER4
PCNA	Proliferating Cell Nuclear Antigen	Protein Coding	57	GC20M005114	2.857391119	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PCNA
ITGAL	Integrin Subunit Alpha L	Protein Coding	53	GC16P030472	2.857074738	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGAL
FCGR3A	Fc Gamma Receptor IIIa	Protein Coding	53	GC01M161541	2.850360155	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FCGR3A
IGFBP6	Insulin Like Growth Factor Binding Protein 6	Protein Coding	50	GC12P053097	2.844712496	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IGFBP6
TXN2	Thioredoxin 2	Protein Coding	50	GC22M036467	2.843144894	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TXN2
CBX1	Chromobox 1	Protein Coding	48	GC17M048070	2.839906454	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CBX1
PIAS4	Protein Inhibitor Of Activated STAT 4	Protein Coding	48	GC19P004007	2.83911252	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PIAS4

MMP13	Matrix Metallopeptidase 13	Protein Coding	57	GC11M102942	2.838996172	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMP13
MYCN	MYCN Proto-Oncogene, BHLH Transcription Factor	Protein Coding	53	GC02P015954	2.838101864	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYCN
NPY1R	Neuropeptide Y Receptor Y1	Protein Coding	53	GC04M163323	2.837838888	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPY1R
TNFRSF10A	TNF Receptor Superfamily Member 10a	Protein Coding	52	GC08M023190	2.837100029	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNFRSF10A
KRIT1	KRIT1 Ankyrin Repeat Containing	Protein Coding	48	GC07M092198	2.832033157	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KRIT1
SULT1C4	Sulfotransferase Family 1C Member 4	Protein Coding	43	GC02P108377	2.830641747	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SULT1C4
MEFV	MEFV Innate Immunity Regulator, Pyrin	Protein Coding	51	GC16M008228	2.823741913	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MEFV
PREP	Prolyl Endopeptidase	Protein Coding	48	GC06M105277	2.822573662	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PREP
NF2	NF2, Moesin-Ezrin-Radixin Like (MERLIN) Tumor Suppressor	Protein Coding	55	GC22P029603	2.821547747	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NF2
S100A8	S100 Calcium Binding Protein A8	Protein Coding	48	GC01M153391	2.820464373	https://www.genecards.org/cgi-bin/carddisp.pl?gene=S100A8
ATR	ATR Serine/Threonine Kinase	Protein Coding	59	GC03M142449	2.820094347	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATR
CCL4	C-C Motif Chemokine Ligand 4	Protein Coding	47	GC17P036103	2.819907188	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCL4
SERPINB1	Serpin Family B Member 1	Protein Coding	47	GC06M002852	2.815357924	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SERPINB1
LIMK1	LIM Domain Kinase 1	Protein Coding	56	GC07P074082	2.813730001	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LIMK1
PSMC4	Proteasome 26S Subunit, ATPase 4	Protein Coding	47	GC19P072849	2.812140942	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PSMC4

YWHAH	Tyrosine 3-Monooxygenase/Tryptophan 5-Monooxygenase Activation Protein Eta	Protein Coding	53	GC22P031944	2.810483932	https://www.genecards.org/cgi-bin/carddisp.pl?gene=YWHAH
PECAM1	Platelet And Endothelial Cell Adhesion Molecule 1	Protein Coding	47	GC17M064319	2.80936718	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PECAM1
FADD	Fas Associated Via Death Domain	Protein Coding	52	GC11P070203	2.808387756	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FADD
AKAP13	A-Kinase Anchoring Protein 13	Protein Coding	49	GC15P123897	2.804094791	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AKAP13
GRM1	Glutamate Metabotropic Receptor 1	Protein Coding	57	GC06P145973	2.799233913	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRM1
FEN1	Flap Structure-Specific Endonuclease 1	Protein Coding	53	GC11P061793	2.798650742	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FEN1
SLC1A7	Solute Carrier Family 1 Member 7	Protein Coding	50	GC01M053087	2.797800779	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC1A7
MTMR2	Myotubularin Related Protein 2	Protein Coding	52	GC11M100315	2.797639847	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MTMR2
ERBB3	Erb-B2 Receptor Tyrosine Kinase 3	Protein Coding	60	GC12P057479	2.795985222	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ERBB3
CXCL12	C-X-C Motif Chemokine Ligand 12	Protein Coding	51	GC10M044370	2.794643164	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CXCL12
IBSP	Integrin Binding Sialoprotein	Protein Coding	45	GC04P087799	2.793280363	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IBSP
CIITA	Class II Major Histocompatibility Complex Transactivator	Protein Coding	51	GC16P013730	2.792242765	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CIITA
ACP2	Acid Phosphatase 2, Lysosomal	Protein Coding	49	GC11M099364	2.791862249	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACP2
CKS1B	CDC28 Protein Kinase Regulatory Subunit 1B	Protein Coding	48	GC01P154974	2.788207769	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CKS1B
P2RY12	Purinergic Receptor P2Y12	Protein Coding	55	GC03M151336	2.787358761	https://www.genecards.org/cgi-bin/carddisp.pl?gene=P2RY12

RPS6KA1	Ribosomal Protein S6 Kinase A1	Protein Coding	57	GC01P026540	2.782677889	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPS6KA1
SULT1C3	Sulfotransferase Family 1C Member 3	Protein Coding	41	GC02P108230	2.780189991	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SULT1C3
MICB	MHC Class I Polypeptide-Related Sequence B	Protein Coding	47	GC06P092149	2.778273106	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MICB
ST3GAL5	ST3 Beta-Galactoside Alpha-2,3-Sialyltransferase 5	Protein Coding	53	GC02M085839	2.777647018	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ST3GAL5
PIEZO1	Piezo Type Mechanosensitive Ion Channel Component 1	Protein Coding	47	GC16M088715	2.772140026	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PIEZO1
MCAT	Malonyl-CoA-Acyl Carrier Protein Transacylase	Protein Coding	48	GC22M043132	2.77162981	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MCAT
HIBADH	3-Hydroxyisobutyrate Dehydrogenase	Protein Coding	47	GC07M027525	2.771614313	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HIBADH
SRSF2	Serine And Arginine Rich Splicing Factor 2	Protein Coding	47	GC17M076734	2.771296501	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SRSF2
ETS1	ETS Proto-Oncogene 1, Transcription Factor	Protein Coding	53	GC11M128458	2.770843744	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ETS1
PF4	Platelet Factor 4	Protein Coding	47	GC04M073980	2.770424366	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PF4
ALPI	Alkaline Phosphatase, Intestinal	Protein Coding	53	GC02P232456	2.770240307	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALPI
PLCB3	Phospholipase C Beta 3	Protein Coding	56	GC11P064251	2.770110607	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLCB3
YBX1	Y-Box Binding Protein 1	Protein Coding	46	GC01P042682	2.769355774	https://www.genecards.org/cgi-bin/carddisp.pl?gene=YBX1
PANK3	Pantothenate Kinase 3	Protein Coding	44	GC05M168549	2.766651154	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PANK3
RPL13A	Ribosomal Protein L13a	Protein Coding	48	GC19P049487	2.766079187	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPL13A

SUCLG2	Succinate-CoA Ligase GDP-Forming Subunit Beta	Protein Coding	49	GC03M067358	2.763974905	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SUCLG2
FST	Follistatin	Protein Coding	55	GC05P053480	2.76219511	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FST
IKBKE	Inhibitor Of Nuclear Factor Kappa B Kinase Subunit Epsilon	Protein Coding	52	GC01P206470	2.76121664	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IKBKE
AWAT1	Acyl-CoA Wax Alcohol Acyltransferase 1	Protein Coding	32	GC0XP070234	2.760582924	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AWAT1
IL2RB	Interleukin 2 Receptor Subunit Beta	Protein Coding	56	GC22M061459	2.75886631	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL2RB
IRF3	Interferon Regulatory Factor 3	Protein Coding	51	GC19M049659	2.755576134	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IRF3
EPHA2	EPH Receptor A2	Protein Coding	60	GC01M016124	2.755475283	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPHA2
ADRA2B	Adrenoceptor Alpha 2B	Protein Coding	51	GC02M096112	2.752860546	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADRA2B
PRLHR	Prolactin Releasing Hormone Receptor	Protein Coding	46	GC10M118590	2.752020121	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRLHR
FOSL1	FOS Like 1, AP-1 Transcription Factor Subunit	Protein Coding	51	GC11M099737	2.751973152	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FOSL1
SENP2	SUMO Specific Peptidase 2	Protein Coding	47	GC03P185582	2.750661612	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SENP2
TPM3	Tropomyosin 3	Protein Coding	53	GC01M154127	2.744642019	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TPM3
LCK	LCK Proto-Oncogene, Src Family Tyrosine Kinase	Protein Coding	59	GC01P032251	2.742602825	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LCK
FAR2	Fatty Acyl-CoA Reductase 2	Protein Coding	45	GC12P029145	2.741351843	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FAR2
PTAFR	Platelet Activating Factor Receptor	Protein Coding	48	GC01M028147	2.740926266	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTAFR

POLB	DNA Polymerase Beta	Protein Coding	51	GC08P042338	2.739527225	https://www.genecards.org/cgi-bin/carddisp.pl?gene=POLB
IL4R	Interleukin 4 Receptor	Protein Coding	55	GC16P042490	2.739160299	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL4R
HSD17B6	Hydroxysteroid 17-Beta Dehydrogenase 6	Protein Coding	48	GC12P056752	2.739024639	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSD17B6
KHSRP	KH-Type Splicing Regulatory Protein	Protein Coding	48	GC19M006413	2.736800432	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KHSRP
PTPRN2	Protein Tyrosine Phosphatase Receptor Type N2	Protein Coding	52	GC07M157539	2.735739231	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPRN2
NCL	Nucleolin	Protein Coding	51	GC02M231453	2.735020161	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NCL
CD47	CD47 Molecule	Protein Coding	51	GC03M108043	2.731025934	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD47
CTSL	Cathepsin L	Protein Coding	53	GC09P087725	2.730602264	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTSL
RACK1	Receptor For Activated C Kinase 1	Protein Coding	50	GC05M181933	2.726868153	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RACK1
APLNR	Apelin Receptor	Protein Coding	51	GC11M057233	2.725875854	https://www.genecards.org/cgi-bin/carddisp.pl?gene=APLNR
PIAS1	Protein Inhibitor Of Activated STAT 1	Protein Coding	51	GC15P068054	2.72550869	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PIAS1
ARF1	ADP Ribosylation Factor 1	Protein Coding	51	GC01P228082	2.724269629	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARF1
MOGAT1	Monoacylglycerol O-Acyltransferase 1	Protein Coding	41	GC02P222671	2.721960545	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MOGAT1
BMP7	Bone Morphogenetic Protein 7	Protein Coding	52	GC20M057168	2.72125721	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BMP7
CCNB1	Cyclin B1	Protein Coding	53	GC05P069167	2.720210075	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCNB1

TYK2	Tyrosine Kinase 2	Protein Coding	60	GC19M010350	2.719821692	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TYK2
CFLAR	CASP8 And FADD Like Apoptosis Regulator	Protein Coding	51	GC02P201122	2.718475819	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CFLAR
RECK	Reversion Inducing Cysteine Rich Protein With Kazal Motifs	Protein Coding	47	GC09P036036	2.718043327	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RECK
MUC5AC	Mucin 5AC, Oligomeric Mucus/Gel-Forming	Protein Coding	46	GC11P002129	2.716766119	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MUC5AC
CAMKK2	Calcium/Calmodulin Dependent Protein Kinase Kinase 2	Protein Coding	54	GC12M122474	2.714353085	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CAMKK2
LMOD1	Leiomodin 1	Protein Coding	47	GC01M201896	2.712001324	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LMOD1
CD81	CD81 Molecule	Protein Coding	53	GC11P002563	2.708006859	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD81
SYP	Synaptophysin	Protein Coding	52	GC0XM049187	2.701478481	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SYP
FCGR2A	Fc Gamma Receptor IIa	Protein Coding	55	GC01P161505	2.700136185	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FCGR2A
FMOD	Fibromodulin	Protein Coding	48	GC01M203340	2.698026896	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FMOD
MBOAT1	Membrane Bound O-Acyltransferase Domain Containing 1	Protein Coding	42	GC06M020102	2.697533131	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MBOAT1
PAK2	P21 (RAC1) Activated Kinase 2	Protein Coding	55	GC03P196739	2.692825556	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PAK2
KRT19	Keratin 19	Protein Coding	50	GC17M041523	2.688460112	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KRT19
SH2B3	SH2B Adaptor Protein 3	Protein Coding	54	GC12P111405	2.684833288	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SH2B3
PCBP1	Poly(RC) Binding Protein 1	Protein Coding	48	GC02P070087	2.683332443	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PCBP1

LEF1	Lymphoid Enhancer Binding Factor 1	Protein Coding	55	GC04M108047	2.683016062	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LEF1
CDX2	Caudal Type Homeobox 2	Protein Coding	48	GC13M027962	2.681468248	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDX2
ACTC1	Actin Alpha Cardiac Muscle 1	Protein Coding	51	GC15M034790	2.680232525	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACTC1
LPAR1	Lysophosphatidic Acid Receptor 1	Protein Coding	53	GC09M110873	2.678920269	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LPAR1
KRT7	Keratin 7	Protein Coding	48	GC12P052232	2.6780653	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KRT7
HAS3	Hyaluronan Synthase 3	Protein Coding	48	GC16P069105	2.677442789	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HAS3
FYN	FYN Proto-Oncogene, Src Family Tyrosine Kinase	Protein Coding	53	GC06M111660	2.676315069	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FYN
MAP2K7	Mitogen-Activated Protein Kinase Kinase 7	Protein Coding	52	GC19P007903	2.675574064	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAP2K7
HSPA9	Heat Shock Protein Family A (Hsp70) Member 9	Protein Coding	54	GC05M138554	2.675514698	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSPA9
TFG	Trafficking From ER To Golgi Regulator	Protein Coding	51	GC03P100709	2.672077417	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TFG
COL3A1	Collagen Type III Alpha 1 Chain	Protein Coding	54	GC02P188974	2.669884205	https://www.genecards.org/cgi-bin/carddisp.pl?gene=COL3A1
MST1	Macrophage Stimulating 1	Protein Coding	53	GC03M049683	2.668335438	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MST1
TBP	TATA-Box Binding Protein	Protein Coding	55	GC06P170554	2.667933941	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TBP
RYR3	Ryanodine Receptor 3	Protein Coding	48	GC15P033310	2.665052652	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RYR3
GJA1	Gap Junction Protein Alpha 1	Protein Coding	57	GC06P121436	2.663125038	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GJA1

ANK1	Ankyrin 1	Protein Coding	50	GC08M041653	2.662607908	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ANK1
SYT1	Synaptotagmin 1	Protein Coding	55	GC12P078863	2.662100077	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SYT1
BLK	BLK Proto-Oncogene, Src Family Tyrosine Kinase	Protein Coding	56	GC08P011486	2.66164875	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BLK
SMAD7	SMAD Family Member 7	Protein Coding	51	GC18M048919	2.660331011	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SMAD7
LBP	Lipopolysaccharide Binding Protein	Protein Coding	51	GC20P038346	2.656612635	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LBP
ZAP70	Zeta Chain Of T Cell Receptor Associated Protein Kinase 70	Protein Coding	59	GC02P097773	2.655203342	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZAP70
JUP	Junction Plakoglobin	Protein Coding	55	GC17M041754	2.653947115	https://www.genecards.org/cgi-bin/carddisp.pl?gene=JUP
UBE2K	Ubiquitin Conjugating Enzyme E2 K	Protein Coding	48	GC04P039700	2.653835773	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UBE2K
FMR1	Fragile X Messenger Ribonucleoprotein 1	Protein Coding	51	GC0XP147956	2.65137434	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FMR1
MAP2K4	Mitogen-Activated Protein Kinase Kinase 4	Protein Coding	53	GC17P012020	2.649491787	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAP2K4
GPR42	G Protein-Coupled Receptor 42	Protein Coding	30	GC19P073881	2.649134159	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GPR42
ST6GAL1	ST6 Beta-Galactoside Alpha-2,6-Sialyltransferase 1	Protein Coding	51	GC03P186930	2.644136429	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ST6GAL1
NPHS1	NPHS1 Adhesion Molecule, Nephrin	Protein Coding	53	GC19M035825	2.644048214	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPHS1
XPO1	Exportin 1	Protein Coding	55	GC02M061445	2.641967058	https://www.genecards.org/cgi-bin/carddisp.pl?gene=XPO1
TFF3	Trefoil Factor 3	Protein Coding	47	GC21M042311	2.641746759	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TFF3

TMPO	Thymopoietin	Protein Coding	53	GC12P098515	2.639974356	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TMPO
GNAI1	G Protein Subunit Alpha I1	Protein Coding	53	GC07P079769	2.639129162	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GNAI1
REST	RE1 Silencing Transcription Factor	Protein Coding	49	GC04P056907	2.639044046	https://www.genecards.org/cgi-bin/carddisp.pl?gene=REST
PPP1R1B	Protein Phosphatase 1 Regulatory Inhibitor Subunit 1B	Protein Coding	49	GC17P039626	2.632069588	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PPP1R1B
IL12RB1	Interleukin 12 Receptor Subunit Beta 1	Protein Coding	52	GC19M018058	2.624730587	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL12RB1
GHRHR	Growth Hormone Releasing Hormone Receptor	Protein Coding	49	GC07P030938	2.624176502	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GHRHR
EPHB4	EPH Receptor B4	Protein Coding	60	GC07M102433	2.621126175	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPHB4
ADRA2C	Adrenoceptor Alpha 2C	Protein Coding	52	GC04P003766	2.617765427	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADRA2C
GLYATL1	Glycine-N-Acyltransferase Like 1	Protein Coding	40	GC11P058906	2.615096807	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GLYATL1
MICA	MHC Class I Polypeptide-Related Sequence A	Protein Coding	46	GC06P031399	2.612233639	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MICA
TP53BP1	Tumor Protein P53 Binding Protein 1	Protein Coding	50	GC15M043403	2.604650736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TP53BP1
AGPAT4	1-Acylglycerol-3-Phosphate O-Acyltransferase 4	Protein Coding	47	GC06M161129	2.601899624	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AGPAT4
ROCK1	Rho Associated Coiled-Coil Containing Protein Kinase 1	Protein Coding	56	GC18M020946	2.60150075	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ROCK1
NRP1	Neuropilin 1	Protein Coding	54	GC10M033177	2.599191189	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NRP1
MAPKAPK2	MAPK Activated Protein Kinase 2	Protein Coding	54	GC01P206684	2.598197699	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAPKAPK2

CCKBR	Cholecystokinin B Receptor	Protein Coding	51	GC11P006259	2.589323282	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCKBR
TXK	TXK Tyrosine Kinase	Protein Coding	51	GC04M048066	2.589127541	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TXK
THEM4	Thioesterase Superfamily Member 4	Protein Coding	47	GC01M151870	2.588637114	https://www.genecards.org/cgi-bin/carddisp.pl?gene=THEM4
TLR9	Toll Like Receptor 9	Protein Coding	53	GC03M052222	2.587840796	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TLR9
PRKCQ	Protein Kinase C Theta	Protein Coding	55	GC10M006591	2.587505102	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRKCQ
PTPRN	Protein Tyrosine Phosphatase Receptor Type N	Protein Coding	51	GC02M219289	2.586440563	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPRN
LHCGR	Luteinizing Hormone/Choriogonadotropin Receptor	Protein Coding	53	GC02M048686	2.585967064	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LHCGR
OSM	Oncostatin M	Protein Coding	50	GC22M030262	2.585475683	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OSM
PITPNM1	Phosphatidylinositol Transfer Protein Membrane Associated 1	Protein Coding	46	GC11M099817	2.578641653	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PITPNM1
BBOX1	Gamma-Butyrobetaine Hydroxylase 1	Protein Coding	46	GC11P027019	2.571772099	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BBOX1
USP8	Ubiquitin Specific Peptidase 8	Protein Coding	53	GC15P050424	2.568456888	https://www.genecards.org/cgi-bin/carddisp.pl?gene=USP8
MYB	MYB Proto-Oncogene, Transcription Factor	Protein Coding	55	GC06P135180	2.568442822	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYB
PRF1	Perforin 1	Protein Coding	53	GC10M070597	2.566235065	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRF1
KIF5B	Kinesin Family Member 5B	Protein Coding	51	GC10M033629	2.563094139	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KIF5B
SLC9A2	Solute Carrier Family 9 Member A2	Protein Coding	48	GC02P102620	2.559026003	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC9A2

CXCR3	C-X-C Motif Chemokine Receptor 3	Protein Coding	51	GC0XM071615	2.55614996	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CXCR3
RPL15	Ribosomal Protein L15	Protein Coding	50	GC03P023916	2.555617809	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPL15
DDX20	DEAD-Box Helicase 20	Protein Coding	49	GC01P111755	2.543823242	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DDX20
HSF1	Heat Shock Transcription Factor 1	Protein Coding	53	GC08P144291	2.543515205	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSF1
TRAPPC10	Trafficking Protein Particle Complex Subunit 10	Protein Coding	45	GC21P044012	2.542541742	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRAPPC10
TYRP1	Tyrosinase Related Protein 1	Protein Coding	54	GC09P012683	2.541297197	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TYRP1
LGMN	Legumain	Protein Coding	49	GC14M092703	2.540930271	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LGMN
IVL	Involucrin	Protein Coding	45	GC01P153037	2.537791967	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IVL
NEB	Nebulin	Protein Coding	47	GC02M151485	2.537733078	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NEB
SAFB	Scaffold Attachment Factor B	Protein Coding	46	GC19P005623	2.537121773	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SAFB
FGF7	Fibroblast Growth Factor 7	Protein Coding	50	GC15P049423	2.536988258	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGF7
SLC7A1	Solute Carrier Family 7 Member 1	Protein Coding	49	GC13M029509	2.536151409	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC7A1
NR2F2	Nuclear Receptor Subfamily 2 Group F Member 2	Protein Coding	56	GC15P096325	2.534425974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NR2F2
TFPI	Tissue Factor Pathway Inhibitor	Protein Coding	53	GC02M187464	2.532000542	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TFPI
AREG	Amphiregulin	Protein Coding	50	GC04P074445	2.528548479	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AREG

	CTSC	Cathepsin C	Protein Coding	54	GC11M100229	2.527719021	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTSC
	CCR3	C-C Motif Chemokine Receptor 3	Protein Coding	52	GC03P047610	2.519971371	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCR3
	ECE1	Endothelin Converting Enzyme 1	Protein Coding	55	GC01M021217	2.518996477	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ECE1
	CRKL	CRK Like Proto-Oncogene, Adaptor Protein	Protein Coding	53	GC22P020917	2.518113375	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CRKL
	CRHR1	Corticotropin Releasing Hormone Receptor 1	Protein Coding	51	GC17P045784	2.517398357	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CRHR1
T	AASDHPP	Aminoadipate-Semialdehyde Dehydrogenase-Phosphopantetheinyl Transferase	Protein Coding	44	GC11P106075	2.514085293	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AASDHPP
	FCGR3B	Fc Gamma Receptor IIIb	Protein Coding	50	GC01M161623	2.514079332	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FCGR3B
	ELOC	Elongin C	Protein Coding	48	GC08M073939	2.512938499	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ELOC
	CA3	Carbonic Anhydrase 3	Protein Coding	48	GC08P085373	2.505985737	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CA3
	DDX1	DEAD-Box Helicase 1	Protein Coding	50	GC02P015591	2.50277853	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DDX1
	SOCS2	Suppressor Of Cytokine Signaling 2	Protein Coding	50	GC12P093569	2.50228858	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SOCS2
	BAZ2B	Bromodomain Adjacent To Zinc Finger Domain 2B	Protein Coding	47	GC02M159318	2.50156641	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BAZ2B
	KISS1R	KISS1 Receptor	Protein Coding	53	GC19P000917	2.501128435	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KISS1R
	ENPP7	Ectonucleotide Pyrophosphatase/Phosphodiesterase 7	Protein Coding	44	GC17P079730	2.501049042	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENPP7
	RPS6KA3	Ribosomal Protein S6 Kinase A3	Protein Coding	59	GC0XM020149	2.500823259	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPS6KA3

TEK	TEK Receptor Tyrosine Kinase	Protein Coding	58	GC09P027109	2.500086546	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TEK
CSK	C-Terminal Src Kinase	Protein Coding	53	GC15P074782	2.496485472	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CSK
MPL	MPL Proto-Oncogene, Thrombopoietin Receptor	Protein Coding	55	GC01P043337	2.496141434	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MPL
PAPPA	Pappalysin 1	Protein Coding	50	GC09P119606	2.495812654	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PAPPA
ARRB2	Arrestin Beta 2	Protein Coding	51	GC17P004711	2.491093874	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARRB2
SPI1	Spi-1 Proto-Oncogene	Protein Coding	50	GC11M099368	2.48957324	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SPI1
EPOR	Erythropoietin Receptor	Protein Coding	56	GC19M011377	2.486668587	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPOR
PRKCG	Protein Kinase C Gamma	Protein Coding	58	GC19P053879	2.486482143	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRKCG
ROS1	ROS Proto-Oncogene 1, Receptor Tyrosine Kinase	Protein Coding	53	GC06M117287	2.483052492	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ROS1
SULT1C2	Sulfotransferase Family 1C Member 2	Protein Coding	48	GC02P108288	2.480620861	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SULT1C2
IL33	Interleukin 33	Protein Coding	46	GC09P007685	2.480547905	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL33
C5AR1	Complement C5a Receptor 1	Protein Coding	51	GC19P047290	2.479447842	https://www.genecards.org/cgi-bin/carddisp.pl?gene=C5AR1
TMPRSS15	Transmembrane Serine Protease 15	Protein Coding	51	GC21M018269	2.477105141	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TMPRSS15
CHI3L1	Chitinase 3 Like 1	Protein Coding	51	GC01M203148	2.477016211	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHI3L1
DAXX	Death Domain Associated Protein	Protein Coding	50	GC06M033318	2.475946665	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DAXX

MTF1	Metal Regulatory Transcription Factor 1	Protein Coding	47	GC01M037810	2.473935127	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MTF1
ITIH4	Inter-Alpha-Trypsin Inhibitor Heavy Chain 4	Protein Coding	50	GC03M052812	2.473416805	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITIH4
GIPC1	GIPC PDZ Domain Containing Family Member 1	Protein Coding	51	GC19M014689	2.472416639	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GIPC1
ILK	Integrin Linked Kinase	Protein Coding	52	GC11P006604	2.47030139	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ILK
KRT16	Keratin 16	Protein Coding	50	GC17M041609	2.468029022	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KRT16
NPR1	Natriuretic Peptide Receptor 1	Protein Coding	53	GC01P153922	2.459864855	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPR1
CRK	CRK Proto-Oncogene, Adaptor Protein	Protein Coding	50	GC17M001420	2.459316969	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CRK
VAMP2	Vesicle Associated Membrane Protein 2	Protein Coding	50	GC17M011050	2.459011793	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VAMP2
PDYN	Prodynorphin	Protein Coding	51	GC20M001978	2.456013918	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDYN
PTGER1	Prostaglandin E Receptor 1	Protein Coding	47	GC19M014687	2.453777313	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTGER1
PAX2	Paired Box 2	Protein Coding	53	GC10P100735	2.451199532	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PAX2
HSPB2	Heat Shock Protein Family B (Small) Member 2	Protein Coding	46	GC11P112012	2.450934172	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSPB2
BLMH	Bleomycin Hydrolase	Protein Coding	50	GC17M030248	2.450750828	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BLMH
AIF1	Allograft Inflammatory Factor 1	Protein Coding	45	GC06P092153	2.450322866	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AIF1
NRG3	Neuregulin 3	Protein Coding	50	GC10P094473	2.449428082	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NRG3

VEGFC	Vascular Endothelial Growth Factor C	Protein Coding	53	GC04M176683	2.448032379	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VEGFC
PIGW	Phosphatidylinositol Glycan Anchor Biosynthesis Class W	Protein Coding	43	GC17P036534	2.446613312	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PIGW
SPRY2	Sprouty RTK Signaling Antagonist 2	Protein Coding	52	GC13M080335	2.445711136	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SPRY2
IQGAP1	IQ Motif Containing GTPase Activating Protein 1	Protein Coding	50	GC15P090388	2.445117474	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IQGAP1
PVALB	Parvalbumin	Protein Coding	47	GC22M036800	2.444863796	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PVALB
AMDHD1	Amidohydrolase Domain Containing 1	Protein Coding	43	GC12P095943	2.444291115	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AMDHD1
BAK1	BCL2 Antagonist/Killer 1	Protein Coding	52	GC06M033572	2.443449974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BAK1
NRG1	Neuregulin 1	Protein Coding	55	GC08P031639	2.442706108	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NRG1
CPB2	Carboxypeptidase B2	Protein Coding	51	GC13M046053	2.441707611	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CPB2
EZR	Ezrin	Protein Coding	53	GC06M158765	2.441425562	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EZR
AACS	Acetoacetyl-CoA Synthetase	Protein Coding	46	GC12P125065	2.440374613	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AACS
BACH2	BTB Domain And CNC Homolog 2	Protein Coding	50	GC06M089926	2.43955183	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BACH2
NTF3	Neurotrophin 3	Protein Coding	51	GC12P023503	2.429748535	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NTF3
APLP2	Amyloid Beta Precursor Like Protein 2	Protein Coding	49	GC11P130069	2.429710865	https://www.genecards.org/cgi-bin/carddisp.pl?gene=APLP2
EIF4G1	Eukaryotic Translation Initiation Factor 4 Gamma 1	Protein Coding	54	GC03P184314	2.428409338	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EIF4G1

MAP2	Microtubule Associated Protein 2	Protein Coding	51	GC02P209424	2.428044796	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAP2
PGF	Placental Growth Factor	Protein Coding	50	GC14M074941	2.426606417	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PGF
WEE1	WEE1 G2 Checkpoint Kinase	Protein Coding	54	GC11P009573	2.426380873	https://www.genecards.org/cgi-bin/carddisp.pl?gene=WEE1
FCGRT	Fc Gamma Receptor And Transporter	Protein Coding	50	GC19P049506	2.42273283	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FCGRT
CCL27	C-C Motif Chemokine Ligand 27	Protein Coding	42	GC09M034662	2.421966791	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCL27
CD9	CD9 Molecule	Protein Coding	51	GC12P023510	2.421341419	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD9
MSN	Moesin	Protein Coding	55	GC0XP065588	2.420360327	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MSN
LOC110806262	Solute Carrier Family 6 Member 4 Gene Promoter	Functional Element	3	GC17P030235	2.417027235	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LOC110806262
BDKRB2	Bradykinin Receptor B2	Protein Coding	52	GC14P096205	2.415146828	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BDKRB2
GGCT	Gamma-Glutamylcyclotransferase	Protein Coding	46	GC07M030496	2.414832115	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GGCT
MPZ	Myelin Protein Zero	Protein Coding	52	GC01M161304	2.414045811	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MPZ
BMPR1B	Bone Morphogenetic Protein Receptor Type 1B	Protein Coding	56	GC04P094757	2.412981272	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BMPR1B
CHGB	Chromogranin B	Protein Coding	48	GC20P005911	2.411474943	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHGB
ITGA3	Integrin Subunit Alpha 3	Protein Coding	55	GC17P050055	2.40312171	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGA3
TPT1	Tumor Protein, Translationally-Controlled 1	Protein Coding	53	GC13M045333	2.400903463	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TPT1

PIK3R3	Phosphoinositide-3-Kinase Regulatory Subunit 3	Protein Coding	50	GC01M046041	2.399698496	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PIK3R3
FSHB	Follicle Stimulating Hormone Subunit Beta	Protein Coding	51	GC11P030210	2.397188187	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FSHB
GABBR1	Gamma-Aminobutyric Acid Type B Receptor Subunit 1	Protein Coding	53	GC06M029555	2.396708727	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GABBR1
PICK1	Protein Interacting With PRKCA 1	Protein Coding	50	GC22P038056	2.396637917	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PICK1
CAMK4	Calcium/Calmodulin Dependent Protein Kinase IV	Protein Coding	52	GC05P111223	2.395980835	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CAMK4
SND1	Staphylococcal Nuclease And Tudor Domain Containing 1	Protein Coding	48	GC07P127652	2.395704985	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SND1
HDAC7	Histone Deacetylase 7	Protein Coding	53	GC12M047782	2.395572424	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HDAC7
SERPINB3	Serpin Family B Member 3	Protein Coding	47	GC18M063655	2.395550489	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SERPINB3
EGR1	Early Growth Response 1	Protein Coding	52	GC05P138465	2.392300129	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EGR1
IRS4	Insulin Receptor Substrate 4	Protein Coding	47	GC0XM108720	2.391109467	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IRS4
EIF3A	Eukaryotic Translation Initiation Factor 3 Subunit A	Protein Coding	51	GC10M119034	2.389075279	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EIF3A
GDNF	Glial Cell Derived Neurotrophic Factor	Protein Coding	56	GC05M037812	2.386838436	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GDNF
ARRB1	Arrestin Beta 1	Protein Coding	51	GC11M100029	2.385669708	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARRB1
KRT5	Keratin 5	Protein Coding	52	GC12M052514	2.385361433	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KRT5
SLC22A9	Solute Carrier Family 22 Member 9	Protein Coding	43	GC11P063388	2.381622076	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC22A9

MUC16	Mucin 16, Cell Surface Associated	Protein Coding	44	GC19M008848	2.38140893	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MUC16
ITCH	Itchy E3 Ubiquitin Protein Ligase	Protein Coding	53	GC20P034363	2.380997658	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITCH
VCL	Vinculin	Protein Coding	54	GC10P073995	2.380882263	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VCL
TUBA1B	Tubulin Alpha 1b	Protein Coding	51	GC12M049127	2.375025034	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TUBA1B
EEF1D	Eukaryotic Translation Elongation Factor 1 Delta	Protein Coding	47	GC08M143579	2.374794006	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EEF1D
CAMP	Cathelicidin Antimicrobial Peptide	Protein Coding	46	GC03P049961	2.373255253	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CAMP
ITGB4	Integrin Subunit Beta 4	Protein Coding	56	GC17P075721	2.372350454	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGB4
ASIC1	Acid Sensing Ion Channel Subunit 1	Protein Coding	52	GC12P050057	2.370299101	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ASIC1
GTF2I	General Transcription Factor Iii	Protein Coding	47	GC07P076418	2.37008667	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GTF2I
CYB561	Cytochrome B561	Protein Coding	48	GC17M063432	2.368448734	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYB561
MINPP1	Multiple Inositol-Polyphosphate Phosphatase 1	Protein Coding	53	GC10P087504	2.367403507	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MINPP1
STMN1	Stathmin 1	Protein Coding	51	GC01M025884	2.365449429	https://www.genecards.org/cgi-bin/carddisp.pl?gene=STMN1
CISH	Cytokine Inducible SH2 Containing Protein	Protein Coding	52	GC03M051766	2.364514351	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CISH
PELP1	Proline, Glutamate And Leucine Rich Protein 1	Protein Coding	46	GC17M004669	2.364390135	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PELP1
CXADR	CXADR Ig-Like Cell Adhesion Molecule	Protein Coding	50	GC21P017513	2.361170053	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CXADR

CTTN	Cortactin	Protein Coding	50	GC11P070398	2.358932734	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTTN
FOLR3	Folate Receptor Gamma	Protein Coding	46	GC11P072114	2.358604431	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FOLR3
HAT1	Histone Acetyltransferase 1	Protein Coding	49	GC02P171922	2.356448412	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HAT1
IFI27	Interferon Alpha Inducible Protein 27	Protein Coding	44	GC14P094104	2.356122971	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IFI27
RYR2	Ryanodine Receptor 2	Protein Coding	53	GC01P237042	2.352290869	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RYR2
RHO	Rhodopsin	Protein Coding	55	GC03P134990	2.350380659	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RHO
HAVCR1	Hepatitis A Virus Cellular Receptor 1	Protein Coding	50	GC05M157028	2.349440813	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HAVCR1
OR51E2	Olfactory Receptor Family 51 Subfamily E Member 2	Protein Coding	38	GC11M004680	2.346513271	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OR51E2
CA14	Carbonic Anhydrase 14	Protein Coding	50	GC01P150436	2.342910767	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CA14
BCL2L11	BCL2 Like 11	Protein Coding	52	GC02P111119	2.341534853	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BCL2L11
IRF5	Interferon Regulatory Factor 5	Protein Coding	53	GC07P128937	2.339133978	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IRF5
GPRC6A	G Protein-Coupled Receptor Class C Group 6 Member A	Protein Coding	44	GC06M116793	2.336325645	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GPRC6A
S1PR1	Sphingosine-1-Phosphate Receptor 1	Protein Coding	52	GC01P101236	2.336192608	https://www.genecards.org/cgi-bin/carddisp.pl?gene=S1PR1
H2AX	H2A.X Variant Histone	Protein Coding	50	GC11M119285	2.332493782	https://www.genecards.org/cgi-bin/carddisp.pl?gene=H2AX
MITF	Melanocyte Inducing Transcription Factor	Protein Coding	55	GC03P069788	2.331109762	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MITF

RGS2	Regulator Of G Protein Signaling 2	Protein Coding	48	GC01P192809	2.330634117	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RGS2
LPAR3	Lysophosphatidic Acid Receptor 3	Protein Coding	50	GC01M084811	2.325584888	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LPAR3
TGFB3	Transforming Growth Factor Beta 3	Protein Coding	54	GC14M075958	2.324998617	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TGFB3
PTP4A2	Protein Tyrosine Phosphatase 4A2	Protein Coding	48	GC01M031910	2.324296236	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTP4A2
TNFRSF10B	TNF Receptor Superfamily Member 10b	Protein Coding	57	GC08M023020	2.323630333	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNFRSF10B
SLC15A2	Solute Carrier Family 15 Member 2	Protein Coding	47	GC03P121894	2.316164017	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC15A2
CLEC7A	C-Type Lectin Domain Containing 7A	Protein Coding	52	GC12M022628	2.315096617	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CLEC7A
OXSM	3-Oxoacyl-ACP Synthase, Mitochondrial	Protein Coding	44	GC03P025782	2.312613249	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OXSM
GNRHR	Gonadotropin Releasing Hormone Receptor	Protein Coding	54	GC04M067737	2.305584192	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GNRHR
PTPRD	Protein Tyrosine Phosphatase Receptor Type D	Protein Coding	52	GC09M008307	2.301552773	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPRD
NPHS2	NPHS2 Stomatin Family Member, Podocin	Protein Coding	50	GC01M179554	2.300552607	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPHS2
SLC9A3R1	SLC9A3 Regulator 1	Protein Coding	52	GC17P074749	2.29944706	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC9A3R1
KRT1	Keratin 1	Protein Coding	53	GC12M052674	2.297845602	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KRT1
EWSR1	EWS RNA Binding Protein 1	Protein Coding	51	GC22P044790	2.296663523	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EWSR1
SMG1	SMG1 Nonsense Mediated MRNA Decay Associated PI3K Related Kinase	Protein Coding	46	GC16M019413	2.292959452	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SMG1

CAMK2A	Calcium/Calmodulin Dependent Protein Kinase II Alpha	Protein Coding	59	GC05M150219	2.292059183	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CAMK2A
CHRNA7	Cholinergic Receptor Nicotinic Alpha 7 Subunit	Protein Coding	52	GC15P031923	2.290010691	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHRNA7
RAP1A	RAP1A, Member Of RAS Oncogene Family	Protein Coding	51	GC01P111542	2.289759874	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RAP1A
EIF2AK2	Eukaryotic Translation Initiation Factor 2 Alpha Kinase 2	Protein Coding	56	GC02M037099	2.28935051	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EIF2AK2
IGHG1	Immunoglobulin Heavy Constant Gamma 1 (G1m Marker)	Protein Coding	40	GC14M105736	2.288361549	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IGHG1
PKN2	Protein Kinase N2	Protein Coding	52	GC01P088684	2.288004875	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PKN2
KRT17	Keratin 17	Protein Coding	51	GC17M041619	2.285661221	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KRT17
PKN1	Protein Kinase N1	Protein Coding	56	GC19P014433	2.285643816	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PKN1
TTL	Tubulin Tyrosine Ligase	Protein Coding	46	GC02P123790	2.280835867	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TTL
GSTT2	Glutathione S-Transferase Theta 2 (Gene/Pseudogene)	Protein Coding	40	GC22P023980	2.280731201	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GSTT2
NPPC	Natriuretic Peptide C	Protein Coding	48	GC02M231921	2.280587196	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPPC
CR2	Complement C3d Receptor 2	Protein Coding	53	GC01P207454	2.280513048	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CR2
TUBB3	Tubulin Beta 3 Class III	Protein Coding	55	GC16P091607	2.279607296	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TUBB3
PHOX2B	Paired Like Homeobox 2B	Protein Coding	51	GC04M041746	2.278419018	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PHOX2B
VEGF	VEGF Nerve Growth Factor Inducible	Protein Coding	45	GC07M101162	2.278366566	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VEGF

SERPINH1	Serpin Family H Member 1	Protein Coding	53	GC11P075562	2.277401924	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SERPINH1
GYPB	Glycophorin B (MNS Blood Group)	Protein Coding	43	GC04M143996	2.275601149	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GYPB
WNT1	Wnt Family Member 1	Protein Coding	52	GC12P049566	2.275330067	https://www.genecards.org/cgi-bin/carddisp.pl?gene=WNT1
PTGER2	Prostaglandin E Receptor 2	Protein Coding	55	GC14P052314	2.275265217	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTGER2
JUNB	JunB Proto-Oncogene, AP-1 Transcription Factor Subunit	Protein Coding	48	GC19P012791	2.274892807	https://www.genecards.org/cgi-bin/carddisp.pl?gene=JUNB
CTNND1	Catenin Delta 1	Protein Coding	52	GC11P058206	2.270763636	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTNND1
VNN2	Vanin 2	Protein Coding	48	GC06M132743	2.269202709	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VNN2
KAT2A	Lysine Acetyltransferase 2A	Protein Coding	55	GC17M042113	2.268852472	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KAT2A
MST1R	Macrophage Stimulating 1 Receptor	Protein Coding	56	GC03M051598	2.268038988	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MST1R
SRF	Serum Response Factor	Protein Coding	50	GC06P043171	2.267645597	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SRF
GLCCI1	Glucocorticoid Induced 1	Protein Coding	43	GC07P007974	2.263047218	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GLCCI1
RPL3	Ribosomal Protein L3	Protein Coding	48	GC22M061482	2.262486219	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPL3
CHEK1	Checkpoint Kinase 1	Protein Coding	56	GC11P125625	2.262406826	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHEK1
NPY2R	Neuropeptide Y Receptor Y2	Protein Coding	51	GC04P155173	2.261928558	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPY2R
SSTR2	Somatostatin Receptor 2	Protein Coding	53	GC17P073165	2.258113146	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SSTR2

EPX	Eosinophil Peroxidase	Protein Coding	50	GC17P058192	2.257993698	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPX
CALCR	Calcitonin Receptor	Protein Coding	55	GC07M093424	2.256989479	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CALCR
CD33	CD33 Molecule	Protein Coding	52	GC19P073323	2.256884336	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD33
PLA2G2D	Phospholipase A2 Group IID	Protein Coding	49	GC01M020111	2.250037909	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLA2G2D
KRT4	Keratin 4	Protein Coding	48	GC12M052806	2.247910023	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KRT4
NCF2	Neutrophil Cytosolic Factor 2	Protein Coding	54	GC01M184057	2.243585348	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NCF2
TRB	T Cell Receptor Beta Locus	Protein Coding	25	GC07P150792	2.242851019	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRB
GRM2	Glutamate Metabotropic Receptor 2	Protein Coding	52	GC03P051707	2.236067772	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRM2
AXL	AXL Receptor Tyrosine Kinase	Protein Coding	59	GC19P041219	2.235015631	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AXL
FLT4	Fms Related Receptor Tyrosine Kinase 4	Protein Coding	59	GC05M180644	2.23460269	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FLT4
RASA1	RAS P21 Protein Activator 1	Protein Coding	52	GC05P087267	2.232948542	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RASA1
NOP2	NOP2 Nucleolar Protein	Protein Coding	44	GC12M006556	2.232879877	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NOP2
ANXA6	Annexin A6	Protein Coding	49	GC05M151100	2.230432749	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ANXA6
CD14	CD14 Molecule	Protein Coding	53	GC05M140631	2.229529858	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD14
SLC18A1	Solute Carrier Family 18 Member A1	Protein Coding	49	GC08M020144	2.224712849	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC18A1

PCM1	Pericentriolar Material 1	Protein Coding	48	GC08P017922	2.223807573	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PCM1
TSLP	Thymic Stromal Lymphopoietin	Protein Coding	46	GC05P111070	2.220189095	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TSLP
ITGAV	Integrin Subunit Alpha V	Protein Coding	55	GC02P186589	2.220042944	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGAV
CASP7	Caspase 7	Protein Coding	56	GC10P113679	2.215365887	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CASP7
RRAS2	RAS Related 2	Protein Coding	55	GC11M014299	2.213180065	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RRAS2
CANT1	Calcium Activated Nucleotidase 1	Protein Coding	51	GC17M078992	2.212469816	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CANT1
FGF9	Fibroblast Growth Factor 9	Protein Coding	51	GC13P021671	2.206700563	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGF9
NECTIN2	Nectin Cell Adhesion Molecule 2	Protein Coding	51	GC19P073053	2.205529928	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NECTIN2
P2RY2	Purinergic Receptor P2Y2	Protein Coding	51	GC11P073202	2.203983545	https://www.genecards.org/cgi-bin/carddisp.pl?gene=P2RY2
SLC5A12	Solute Carrier Family 5 Member 12	Protein Coding	43	GC11M026648	2.202407837	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC5A12
MTA1	Metastasis Associated 1	Protein Coding	50	GC14P105419	2.200025558	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MTA1
CD247	CD247 Molecule	Protein Coding	56	GC01M167399	2.198839188	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD247
CXCL1	C-X-C Motif Chemokine Ligand 1	Protein Coding	50	GC04P073869	2.19849968	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CXCL1
AP2B1	Adaptor Related Protein Complex 2 Subunit Beta 1	Protein Coding	49	GC17P035578	2.197745085	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AP2B1
PALLD	Palladin, Cytoskeletal Associated Protein	Protein Coding	49	GC04P168497	2.195952415	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PALLD

KCNJ6	Potassium Inwardly Rectifying Channel Subfamily J Member 6	Protein Coding	53	GC21M037607	2.194558859	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNJ6
PXN	Paxillin	Protein Coding	52	GC12M120210	2.194096565	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PXN
FGF1	Fibroblast Growth Factor 1	Protein Coding	54	GC05M142555	2.19223547	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGF1
TOR1A	Torsin Family 1 Member A	Protein Coding	52	GC09M129812	2.189523697	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TOR1A
IFNAR2	Interferon Alpha And Beta Receptor Subunit 2	Protein Coding	56	GC21P033229	2.188015223	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IFNAR2
LORICRIN	Loricrin Cornified Envelope Precursor Protein	Protein Coding	41	GC01P153262	2.187447548	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LORICRIN
UGT2A1	UDP Glucuronosyltransferase Family 2 Member A1 Complex Locus	Protein Coding	39	GC04M069588	2.187245607	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UGT2A1
DNAJA3	DnaJ Heat Shock Protein Family (Hsp40) Member A3	Protein Coding	47	GC16P004425	2.186523199	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DNAJA3
NPHP1	Nephrocystin 1	Protein Coding	50	GC02M110122	2.185429335	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPHP1
ELK1	ETS Transcription Factor ELK1	Protein Coding	50	GC0XM047635	2.183863878	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ELK1
GAS6	Growth Arrest Specific 6	Protein Coding	51	GC13M113820	2.181773901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GAS6
RPL8	Ribosomal Protein L8	Protein Coding	47	GC08M145667	2.181601048	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPL8
NBAS	NBAS Subunit Of NRZ Tethering Complex	Protein Coding	47	GC02M014791	2.18016696	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NBAS
HARS2	Histidyl-TRNA Synthetase 2, Mitochondrial	Protein Coding	51	GC05P146979	2.180040359	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HARS2
TIAM1	TIAM Rac1 Associated GEF 1	Protein Coding	51	GC21M031118	2.179636002	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TIAM1

TRAF2	TNF Receptor Associated Factor 2	Protein Coding	51	GC09P136881	2.178793192	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRAF2
RCAN1	Regulator Of Calcineurin 1	Protein Coding	49	GC21M034513	2.1757195	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RCAN1
TUBG1	Tubulin Gamma 1	Protein Coding	53	GC17P042609	2.174733877	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TUBG1
LAP3	Leucine Aminopeptidase 3	Protein Coding	48	GC04P019261	2.167632818	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LAP3
MMP12	Matrix Metallopeptidase 12	Protein Coding	53	GC11M102862	2.162835836	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMP12
APEH	Acylaminoacyl-Peptide Hydrolase	Protein Coding	47	GC03P049673	2.162119865	https://www.genecards.org/cgi-bin/carddisp.pl?gene=APEH
MOGAT3	Monoacylglycerol O-Acyltransferase 3	Protein Coding	38	GC07M101192	2.160770655	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MOGAT3
POU2F2	POU Class 2 Homeobox 2	Protein Coding	48	GC19M042086	2.157357693	https://www.genecards.org/cgi-bin/carddisp.pl?gene=POU2F2
KDM4A	Lysine Demethylase 4A	Protein Coding	51	GC01P043650	2.156814098	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KDM4A
CD86	CD86 Molecule	Protein Coding	51	GC03P122055	2.156406641	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD86
GRPR	Gastrin Releasing Peptide Receptor	Protein Coding	50	GC0XP016141	2.155606985	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRPR
CHRM2	Cholinergic Receptor Muscarinic 2	Protein Coding	55	GC07P136868	2.15210104	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHRM2
MSRB1	Methionine Sulfoxide Reductase B1	Protein Coding	45	GC16M008078	2.151757956	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MSRB1
SSBP1	Single Stranded DNA Binding Protein 1	Protein Coding	47	GC07P150787	2.150444269	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SSBP1
CXCL5	C-X-C Motif Chemokine Ligand 5	Protein Coding	47	GC04M073995	2.147365332	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CXCL5

PPP3CA	Protein Phosphatase 3 Catalytic Subunit Alpha	Protein Coding	59	GC04M101024	2.147106171	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PPP3CA
GUCA2B	Guanylate Cyclase Activator 2B	Protein Coding	44	GC01P042153	2.145024538	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GUCA2B
MIP	Major Intrinsic Protein Of Lens Fiber	Protein Coding	47	GC12M056449	2.14080596	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIP
GPR139	G Protein-Coupled Receptor 139	Protein Coding	41	GC16M020042	2.138799429	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GPR139
COX4I2	Cytochrome C Oxidase Subunit 4I2	Protein Coding	47	GC20P031637	2.136496305	https://www.genecards.org/cgi-bin/carddisp.pl?gene=COX4I2
ITGA4	Integrin Subunit Alpha 4	Protein Coding	55	GC02P181456	2.135978699	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGA4
SLC5A3	Solute Carrier Family 5 Member 3	Protein Coding	46	GC21P034139	2.13568759	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC5A3
CXCL9	C-X-C Motif Chemokine Ligand 9	Protein Coding	47	GC04M076001	2.134976625	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CXCL9
EEF2K	Eukaryotic Elongation Factor 2 Kinase	Protein Coding	53	GC16P024508	2.13412714	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EEF2K
MMP7	Matrix Metalloproteinase 7	Protein Coding	53	GC11M102425	2.130843878	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMP7
KAT2B	Lysine Acetyltransferase 2B	Protein Coding	55	GC03P020043	2.130774498	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KAT2B
CDC25C	Cell Division Cycle 25C	Protein Coding	54	GC05M138285	2.12878871	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDC25C
UTRN	Utrophin	Protein Coding	47	GC06P144285	2.123741865	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UTRN
TYRO3	TYRO3 Protein Tyrosine Kinase	Protein Coding	56	GC15P041557	2.121773958	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TYRO3
MAP2K3	Mitogen-Activated Protein Kinase Kinase 3	Protein Coding	55	GC17P061212	2.121331215	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAP2K3

DPYSL2	Dihydropyrimidinase Like 2	Protein Coding	52	GC08P026514	2.119753838	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DPYSL2
HDAC5	Histone Deacetylase 5	Protein Coding	56	GC17M044076	2.118413448	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HDAC5
TPST2	Tyrosylprotein Sulfotransferase 2	Protein Coding	47	GC22M061183	2.113404989	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TPST2
MERTK	MER Proto-Oncogene, Tyrosine Kinase	Protein Coding	59	GC02P111898	2.112577915	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MERTK
NGB	Neuroglobin	Protein Coding	43	GC14M077265	2.111859798	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NGB
PTP4A1	Protein Tyrosine Phosphatase 4A1	Protein Coding	47	GC06P092552	2.11169529	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTP4A1
GIT2	GIT ArfGAP 2	Protein Coding	48	GC12M109929	2.111174107	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GIT2
SH2D1A	SH2 Domain Containing 1A	Protein Coding	53	GC0XP124227	2.110352278	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SH2D1A
SORBS1	Sorbin And SH3 Domain Containing 1	Protein Coding	48	GC10M095311	2.107699394	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SORBS1
NR2E3	Nuclear Receptor Subfamily 2 Group E Member 3	Protein Coding	48	GC15P071792	2.107695341	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NR2E3
RNPC3	RNA Binding Region (RNP1, RRM) Containing 3	Protein Coding	42	GC01P103525	2.104146481	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RNPC3
PPT2	Palmitoyl-Protein Thioesterase 2	Protein Coding	44	GC06P032153	2.102693081	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PPT2
EPHA3	EPH Receptor A3	Protein Coding	53	GC03P089077	2.101714849	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPHA3
CD69	CD69 Molecule	Protein Coding	49	GC12M022623	2.100873947	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD69
NTRK3	Neurotrophic Receptor Tyrosine Kinase 3	Protein Coding	59	GC15M087859	2.100211382	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NTRK3

ARHGEF2	Rho/Rac Guanine Nucleotide Exchange Factor 2	Protein Coding	52	GC01M155946	2.094944477	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARHGEF2
TNFRSF9	TNF Receptor Superfamily Member 9	Protein Coding	50	GC01M007915	2.094399691	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNFRSF9
BID	BH3 Interacting Domain Death Agonist	Protein Coding	52	GC22M017734	2.09288168	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BID
RRAS	RAS Related	Protein Coding	48	GC19M049635	2.091985941	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RRAS
ITGA6	Integrin Subunit Alpha 6	Protein Coding	56	GC02P172427	2.089226961	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGA6
MTPN	Myotrophin	Protein Coding	41	GC07M135926	2.08886981	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MTPN
HCK	HCK Proto-Oncogene, Src Family Tyrosine Kinase	Protein Coding	54	GC20P032052	2.088297129	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HCK
FKBP1A	FKBP Prolyl Isomerase 1A	Protein Coding	54	GC20M001369	2.087401867	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FKBP1A
SLC18A3	Solute Carrier Family 18 Member A3	Protein Coding	50	GC10P049610	2.086946011	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC18A3
ADI1	Acireductone Dioxygenase 1	Protein Coding	46	GC02M003501	2.086838961	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADI1
COL4A1	Collagen Type IV Alpha 1 Chain	Protein Coding	55	GC13M110148	2.084783077	https://www.genecards.org/cgi-bin/carddisp.pl?gene=COL4A1
MASP1	MBL Associated Serine Protease 1	Protein Coding	55	GC03M187216	2.084374428	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MASP1
ADORA2B	Adenosine A2b Receptor	Protein Coding	55	GC17P017963	2.084364653	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADORA2B
DLG2	Discs Large MAGUK Scaffold Protein 2	Protein Coding	48	GC11M083455	2.081746817	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DLG2
PRG2	Proteoglycan 2, Pro Eosinophil Major Basic Protein	Protein Coding	47	GC11M057386	2.079038382	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRG2

KHDRBS2	KH RNA Binding Domain Containing, Signal Transduction Associated 2	Protein Coding	43	GC06M061542	2.074846268	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KHDRBS2
FOXP2	Forkhead Box P2	Protein Coding	50	GC07P114086	2.072494745	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FOXP2
POLK	DNA Polymerase Kappa	Protein Coding	49	GC05P075511	2.071971893	https://www.genecards.org/cgi-bin/carddisp.pl?gene=POLK
FCGR1A	Fc Gamma Receptor Ia	Protein Coding	48	GC01P150388	2.06972146	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FCGR1A
RPL23A	Ribosomal Protein L23a	Protein Coding	47	GC17P028719	2.064439297	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPL23A
ATN1	Atrophin 1	Protein Coding	50	GC12P023561	2.062030077	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATN1
SFTPA1	Surfactant Protein A1	Protein Coding	51	GC10P095475	2.061035395	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SFTPA1
CSF3R	Colony Stimulating Factor 3 Receptor	Protein Coding	54	GC01M036466	2.059127331	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CSF3R
MYO18A	Myosin XVIIIa	Protein Coding	44	GC17M051199	2.057760477	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYO18A
GP6	Glycoprotein VI Platelet	Protein Coding	53	GC19M055013	2.057397366	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GP6
HUWE1	HECT, UBA And WWE Domain Containing E3 Ubiquitin Protein Ligase 1	Protein Coding	52	GC0XM053532	2.05684495	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HUWE1
SLC9A3R2	SLC9A3 Regulator 2	Protein Coding	45	GC16P013511	2.05680871	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC9A3R2
NUDT1	Nudix Hydrolase 1	Protein Coding	48	GC07P002242	2.056804657	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NUDT1
CCL3	C-C Motif Chemokine Ligand 3	Protein Coding	46	GC17M036088	2.054622173	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCL3
PSIP1	PC4 And SRSF1 Interacting Protein 1	Protein Coding	47	GC09M015464	2.052438974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PSIP1

LMO2	LIM Domain Only 2	Protein Coding	47	GC11M033858	2.05214572	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LMO2
PTPRF	Protein Tyrosine Phosphatase Receptor Type F	Protein Coding	56	GC01P043527	2.049630642	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPRF
VEGFB	Vascular Endothelial Growth Factor B	Protein Coding	51	GC11P064234	2.048155546	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VEGFB
CPA1	Carboxypeptidase A1	Protein Coding	51	GC07P130380	2.048068523	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CPA1
SNAI2	Snail Family Transcriptional Repressor 2	Protein Coding	51	GC08M048917	2.047676325	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SNAI2
CEACAM1	CEA Cell Adhesion Molecule 1	Protein Coding	51	GC19M042507	2.047606945	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CEACAM1
TPST1	Tyrosylprotein Sulfotransferase 1	Protein Coding	47	GC07P071715	2.046896458	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TPST1
C3AR1	Complement C3a Receptor 1	Protein Coding	50	GC12M008059	2.04667449	https://www.genecards.org/cgi-bin/carddisp.pl?gene=C3AR1
EIF6	Eukaryotic Translation Initiation Factor 6	Protein Coding	47	GC20M035278	2.044235945	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EIF6
SUMO1	Small Ubiquitin Like Modifier 1	Protein Coding	53	GC02M202206	2.042767763	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SUMO1
TIE1	Tyrosine Kinase With Immunoglobulin Like And EGF Like Domains 1	Protein Coding	52	GC01P043300	2.041883707	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TIE1
CENPF	Centromere Protein F	Protein Coding	48	GC01P214603	2.041686535	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CENPF
TNC	Tenascin C	Protein Coding	56	GC09M115019	2.041381836	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNC
SERPINB2	Serpin Family B Member 2	Protein Coding	50	GC18P063871	2.040825367	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SERPINB2
SLC47A1	Solute Carrier Family 47 Member 1	Protein Coding	48	GC17P019495	2.040024042	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC47A1

MCAM	Melanoma Cell Adhesion Molecule	Protein Coding	49	GC11M119308	2.03592515	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MCAM
G3BP1	G3BP Stress Granule Assembly Factor 1	Protein Coding	47	GC05P151771	2.033505201	https://www.genecards.org/cgi-bin/carddisp.pl?gene=G3BP1
OPRD1	Opioid Receptor Delta 1	Protein Coding	50	GC01P028812	2.032579899	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OPRD1
KRT10	Keratin 10	Protein Coding	50	GC17M040818	2.029624939	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KRT10
DNM3	Dynamin 3	Protein Coding	50	GC01P171868	2.028045177	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DNM3
NOG	Noggin	Protein Coding	53	GC17P056593	2.026612282	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NOG
HIP1	Huntingtin Interacting Protein 1	Protein Coding	47	GC07M075533	2.025650978	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HIP1
DMPK	DM1 Protein Kinase	Protein Coding	55	GC19M045769	2.02176404	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DMPK
MUSK	Muscle Associated Receptor Tyrosine Kinase	Protein Coding	55	GC09P110668	2.02113533	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MUSK
USP1	Ubiquitin Specific Peptidase 1	Protein Coding	51	GC01P062436	2.019223452	https://www.genecards.org/cgi-bin/carddisp.pl?gene=USP1
CCNG1	Cyclin G1	Protein Coding	47	GC05P163438	2.017747879	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCNG1
BLZF1	Basic Leucine Zipper Nuclear Factor 1	Protein Coding	45	GC01P169367	2.013850212	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BLZF1
MYOD1	Myogenic Differentiation 1	Protein Coding	53	GC11P017741	2.008466005	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYOD1
SLX9	SLX9 Ribosome Biogenesis Factor	Protein Coding	35	GC21P044939	2.005723715	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLX9
LGALS4	Galectin 4	Protein Coding	44	GC19M070551	2.00537014	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LGALS4

ZBTB16	Zinc Finger And BTB Domain Containing 16	Protein Coding	50	GC11P114059	2.005048513	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZBTB16
PIGR	Polymeric Immunoglobulin Receptor	Protein Coding	48	GC01M206928	2.003614426	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PIGR
ROR2	Receptor Tyrosine Kinase Like Orphan Receptor 2	Protein Coding	55	GC09M096500	1.999219894	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ROR2
CA7	Carbonic Anhydrase 7	Protein Coding	44	GC16P066844	1.998595476	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CA7
IFNGR1	Interferon Gamma Receptor 1	Protein Coding	57	GC06M137197	1.997519255	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IFNGR1
CCL7	C-C Motif Chemokine Ligand 7	Protein Coding	50	GC17P034270	1.996502876	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCL7
SELPLG	Selectin P Ligand	Protein Coding	51	GC12M108621	1.995840073	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SELPLG
C4B	Complement C4B (Chido Blood Group)	Protein Coding	48	GC06P032014	1.993642092	https://www.genecards.org/cgi-bin/carddisp.pl?gene=C4B
WNT2	Wnt Family Member 2	Protein Coding	50	GC07M117313	1.993524075	https://www.genecards.org/cgi-bin/carddisp.pl?gene=WNT2
LMX1B	LIM Homeobox Transcription Factor 1 Beta	Protein Coding	51	GC09P126614	1.992806673	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LMX1B
RHOH	Ras Homolog Family Member H	Protein Coding	51	GC04P040192	1.990023136	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RHOH
IL9	Interleukin 9	Protein Coding	50	GC05M135891	1.989136219	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL9
GRB10	Growth Factor Receptor Bound Protein 10	Protein Coding	49	GC07M050590	1.986071348	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRB10
ROBO1	Roundabout Guidance Receptor 1	Protein Coding	51	GC03M078597	1.984625578	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ROBO1
COL20A1	Collagen Type XX Alpha 1 Chain	Protein Coding	44	GC20P063293	1.983115435	https://www.genecards.org/cgi-bin/carddisp.pl?gene=COL20A1

PDCD6IP	Programmed Cell Death 6 Interacting Protein	Protein Coding	50	GC03P033798	1.98204422	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDCD6IP
DCT	Dopachrome Tautomerase	Protein Coding	52	GC13M094436	1.978040814	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DCT
MARCKS	Myristoylated Alanine Rich Protein Kinase C Substrate	Protein Coding	46	GC06P113857	1.976188779	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MARCKS
SMAD1	SMAD Family Member 1	Protein Coding	51	GC04P145481	1.973513365	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SMAD1
CD63	CD63 Molecule	Protein Coding	50	GC12M055725	1.972302675	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD63
TOP2B	DNA Topoisomerase II Beta	Protein Coding	52	GC03M025598	1.970924854	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TOP2B
GADD45A	Growth Arrest And DNA Damage Inducible Alpha	Protein Coding	50	GC01P067685	1.970365047	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GADD45A
HLA-DMA	Major Histocompatibility Complex, Class II, DM Alpha	Protein Coding	46	GC06M071795	1.966271639	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HLA-DMA
TNFRSF8	TNF Receptor Superfamily Member 8	Protein Coding	50	GC01P012063	1.965282679	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNFRSF8
PTPRJ	Protein Tyrosine Phosphatase Receptor Type J	Protein Coding	55	GC11P048002	1.964123964	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPRJ
ADRA1A	Adrenoceptor Alpha 1A	Protein Coding	53	GC08M026747	1.963740349	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADRA1A
FKBP4	FKBP Prolyl Isomerase 4	Protein Coding	52	GC12P002795	1.963716984	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FKBP4
POLR3K	RNA Polymerase III Subunit K	Protein Coding	47	GC16M000046	1.963641405	https://www.genecards.org/cgi-bin/carddisp.pl?gene=POLR3K
MYO5A	Myosin VA	Protein Coding	51	GC15M123722	1.962192774	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYO5A
FRK	Fyn Related Src Family Tyrosine Kinase	Protein Coding	51	GC06M115931	1.962022543	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FRK

SLC6A6	Solute Carrier Family 6 Member 6	Protein Coding	52	GC03P014402	1.960782766	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC6A6
SEMA3A	Semaphorin 3A	Protein Coding	53	GC07M083955	1.9588871	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SEMA3A
FZD4	Frizzled Class Receptor 4	Protein Coding	56	GC11M086945	1.957341671	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FZD4
NAA10	N-Alpha-Acetyltransferase 10, NatA Catalytic Subunit	Protein Coding	52	GC0XM153929	1.954634666	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NAA10
S100A7	S100 Calcium Binding Protein A7	Protein Coding	46	GC01M153457	1.948243737	https://www.genecards.org/cgi-bin/carddisp.pl?gene=S100A7
FCER2	Fc Epsilon Receptor II	Protein Coding	50	GC19M007689	1.944807529	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FCER2
VASP	Vasodilator Stimulated Phosphoprotein	Protein Coding	50	GC19P073070	1.944025874	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VASP
TSG101	Tumor Susceptibility 101	Protein Coding	49	GC11M018468	1.943533421	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TSG101
S100A1	S100 Calcium Binding Protein A1	Protein Coding	47	GC01P153627	1.942153215	https://www.genecards.org/cgi-bin/carddisp.pl?gene=S100A1
LAT	Linker For Activation Of T Cells	Protein Coding	53	GC16P042656	1.938898325	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LAT
CCR1	C-C Motif Chemokine Receptor 1	Protein Coding	52	GC03M046218	1.938135386	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCR1
LYST	Lysosomal Trafficking Regulator	Protein Coding	45	GC01M235661	1.937011361	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LYST
ALCAM	Activated Leukocyte Cell Adhesion Molecule	Protein Coding	50	GC03P105366	1.936097383	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALCAM
TJP1	Tight Junction Protein 1	Protein Coding	51	GC15M029699	1.935941458	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TJP1
EFNB2	Ephrin B2	Protein Coding	50	GC13M106489	1.931266308	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EFNB2

STAT2	Signal Transducer And Activator Of Transcription 2	Protein Coding	55	GC12M056341	1.929269314	https://www.genecards.org/cgi-bin/carddisp.pl?gene=STAT2
RPL19	Ribosomal Protein L19	Protein Coding	48	GC17P039200	1.925439119	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPL19
HTR1B	5-Hydroxytryptamine Receptor 1B	Protein Coding	50	GC06M077488	1.925381422	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HTR1B
FER	FER Tyrosine Kinase	Protein Coding	52	GC05P108747	1.925205708	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FER
RAPGEF3	Rap Guanine Nucleotide Exchange Factor 3	Protein Coding	51	GC12M047736	1.919921637	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RAPGEF3
PATJ	PATJ Crumbs Cell Polarity Complex Component	Protein Coding	43	GC01P061743	1.919464111	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PATJ
PSMD4	Proteasome 26S Subunit Ubiquitin Receptor, Non-ATPase 4	Protein Coding	50	GC01P151378	1.917000532	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PSMD4
NRXN1	Neurexin 1	Protein Coding	55	GC02M049918	1.916447639	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NRXN1
RANBP9	RAN Binding Protein 9	Protein Coding	48	GC06M013621	1.916115046	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RANBP9
CEACAM3	CEA Cell Adhesion Molecule 3	Protein Coding	49	GC19P041796	1.915868282	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CEACAM3
MAP3K11	Mitogen-Activated Protein Kinase Kinase Kinase 11	Protein Coding	53	GC11M099713	1.914820433	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAP3K11
FGF8	Fibroblast Growth Factor 8	Protein Coding	54	GC10M101770	1.91269207	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGF8
LHX3	LIM Homeobox 3	Protein Coding	47	GC09M136196	1.912455797	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LHX3
MAP3K14	Mitogen-Activated Protein Kinase Kinase Kinase 14	Protein Coding	51	GC17M045263	1.910337448	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAP3K14
MPHOSPH	M-Phase Phosphoprotein 8	Protein Coding	43	GC13P019633	1.903998017	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MPHOSPH8

SOS2	SOS Ras/Rho Guanine Nucleotide Exchange Factor 2	Protein Coding	51	GC14M050117	1.903938532	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SOS2
NCAM1	Neural Cell Adhesion Molecule 1	Protein Coding	55	GC11P112961	1.903778315	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NCAM1
FPR1	Formyl Peptide Receptor 1	Protein Coding	54	GC19M051745	1.9031353	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FPR1
CEACAM7	CEA Cell Adhesion Molecule 7	Protein Coding	44	GC19M041673	1.902526498	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CEACAM7
BCAR1	BCAR1 Scaffold Protein, Cas Family Member	Protein Coding	50	GC16M075228	1.898793936	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BCAR1
MAP3K1	Mitogen-Activated Protein Kinase Kinase Kinase 1	Protein Coding	56	GC05P056815	1.898443699	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAP3K1
TRPC3	Transient Receptor Potential Cation Channel Subfamily C Member 3	Protein Coding	54	GC04M121879	1.893781662	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRPC3
DDR2	Discoidin Domain Receptor Tyrosine Kinase 2	Protein Coding	59	GC01P162631	1.891518831	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DDR2
RALA	RAS Like Proto-Oncogene A	Protein Coding	52	GC07P039622	1.891065836	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RALA
CCR7	C-C Motif Chemokine Receptor 7	Protein Coding	51	GC17M051716	1.886298895	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCR7
KRT9	Keratin 9	Protein Coding	48	GC17M041565	1.88619864	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KRT9
SSTR5	Somatostatin Receptor 5	Protein Coding	49	GC16P001072	1.884937763	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SSTR5
SEC23IP	SEC23 Interacting Protein	Protein Coding	46	GC10P119892	1.882997751	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SEC23IP
CD163	CD163 Molecule	Protein Coding	51	GC12M008027	1.878556132	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD163
DRD5	Dopamine Receptor D5	Protein Coding	53	GC04P009783	1.877865791	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DRD5

UBE3C	Ubiquitin Protein Ligase E3C	Protein Coding	46	GC07P157138	1.877578497	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UBE3C
CARNS1	Carnosine Synthase 1	Protein Coding	39	GC11P067414	1.877417564	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CARNS1
ARF6	ADP Ribosylation Factor 6	Protein Coding	49	GC14P049895	1.875149727	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARF6
KTN1	Kinectin 1	Protein Coding	48	GC14P055559	1.87413168	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KTN1
PRMT3	Protein Arginine Methyltransferase 3	Protein Coding	47	GC11P020409	1.873780608	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRMT3
NUCB1	Nucleobindin 1	Protein Coding	48	GC19P048900	1.873780489	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NUCB1
CDH23	Cadherin Related 23	Protein Coding	51	GC10P071396	1.872978449	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDH23
FGF10	Fibroblast Growth Factor 10	Protein Coding	53	GC05M044340	1.872734308	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGF10
HGS	Hepatocyte Growth Factor-Regulated Tyrosine Kinase Substrate	Protein Coding	50	GC17P081683	1.870378494	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HGS
ADRA1B	Adrenoceptor Alpha 1B	Protein Coding	53	GC05P159867	1.867448092	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADRA1B
BLNK	B Cell Linker	Protein Coding	53	GC10M096259	1.864344835	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BLNK
PTPN13	Protein Tyrosine Phosphatase Non-Receptor Type 13	Protein Coding	51	GC04P086594	1.858952284	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPN13
WASL	WASP Like Actin Nucleation Promoting Factor	Protein Coding	48	GC07M123681	1.858193636	https://www.genecards.org/cgi-bin/carddisp.pl?gene=WASL
RPL23	Ribosomal Protein L23	Protein Coding	47	GC17M038847	1.85684371	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPL23
NEDD4	NEDD4 E3 Ubiquitin Protein Ligase	Protein Coding	54	GC15M055826	1.856402278	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NEDD4

GREM1	Gremlin 1, DAN Family BMP Antagonist	Protein Coding	50	GC15P046226	1.855420828	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GREM1
CSN2	Casein Beta	Protein Coding	40	GC04M069955	1.854342461	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CSN2
CALB2	Calbindin 2	Protein Coding	46	GC16P071358	1.852124453	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CALB2
GLRB	Glycine Receptor Beta	Protein Coding	53	GC04P157076	1.851535916	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GLRB
SULT6B1	Sulfotransferase Family 6B Member 1	Protein Coding	40	GC02M037167	1.847799659	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SULT6B1
EDN3	Endothelin 3	Protein Coding	51	GC20P059300	1.847703934	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EDN3
S100A4	S100 Calcium Binding Protein A4	Protein Coding	52	GC01M153543	1.846493006	https://www.genecards.org/cgi-bin/carddisp.pl?gene=S100A4
NOLC1	Nucleolar And Coiled-Body Phosphoprotein 1	Protein Coding	47	GC10P102152	1.845025539	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NOLC1
THY1	Thy-1 Cell Surface Antigen	Protein Coding	50	GC11M119417	1.843530655	https://www.genecards.org/cgi-bin/carddisp.pl?gene=THY1
DLG3	Discs Large MAGUK Scaffold Protein 3	Protein Coding	49	GC0XP070444	1.843284726	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DLG3
GRK6	G Protein-Coupled Receptor Kinase 6	Protein Coding	53	GC05P177403	1.840342522	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRK6
TNFAIP6	TNF Alpha Induced Protein 6	Protein Coding	47	GC02P151357	1.840254068	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNFAIP6
EREG	Epiregulin	Protein Coding	50	GC04P074366	1.837180853	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EREG
PDGFA	Platelet Derived Growth Factor Subunit A	Protein Coding	50	GC07M000497	1.837180853	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDGFA
ABCC11	ATP Binding Cassette Subfamily C Member 11	Protein Coding	48	GC16M048166	1.835193396	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABCC11

RPL37	Ribosomal Protein L37	Protein Coding	45	GC05M040825	1.834323168	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPL37
PLCL1	Phospholipase C Like 1 (Inactive)	Protein Coding	46	GC02P197804	1.834127903	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLCL1
AQP1	Aquaporin 1 (Colton Blood Group)	Protein Coding	53	GC07P030911	1.833886862	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AQP1
FLOT2	Flotillin 2	Protein Coding	47	GC17M051195	1.832614422	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FLOT2
CREM	CAMP Responsive Element Modulator	Protein Coding	48	GC10P035126	1.831388235	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CREM
NRP2	Neuropilin 2	Protein Coding	52	GC02P205681	1.830303192	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NRP2
BDKRB1	Bradykinin Receptor B1	Protein Coding	48	GC14P096302	1.830173969	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BDKRB1
DIABLO	Diablo IAP-Binding Mitochondrial Protein	Protein Coding	53	GC12M122497	1.829569101	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DIABLO
OGDHL	Oxoglutarate Dehydrogenase L	Protein Coding	47	GC10M049734	1.827629805	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OGDHL
ATP2C1	ATPase Secretory Pathway Ca ²⁺ Transporting 1	Protein Coding	51	GC03P130850	1.827577353	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATP2C1
H1-2	H1.2 Linker Histone, Cluster Member	Protein Coding	46	GC06M026056	1.826867104	https://www.genecards.org/cgi-bin/carddisp.pl?gene=H1-2
HRH2	Histamine Receptor H2	Protein Coding	50	GC05P175659	1.824629188	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HRH2
PSME3	Proteasome Activator Subunit 3	Protein Coding	47	GC17P042824	1.823475361	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PSME3
PTPN12	Protein Tyrosine Phosphatase Non-Receptor Type 12	Protein Coding	55	GC07P077537	1.822618484	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPN12
RPS6KA5	Ribosomal Protein S6 Kinase A5	Protein Coding	52	GC14M090847	1.822618484	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPS6KA5

CAPN1	Calpain 1	Protein Coding	57	GC11P070846	1.822430849	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CAPN1
ARHGEF1	Rho Guanine Nucleotide Exchange Factor 1	Protein Coding	53	GC19P041883	1.820183396	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARHGEF1
SLC6A11	Solute Carrier Family 6 Member 11	Protein Coding	47	GC03P013696	1.819394827	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC6A11
MYOZ2	Myozenin 2	Protein Coding	46	GC04P119135	1.819327593	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYOZ2
HCAR3	Hydroxycarboxylic Acid Receptor 3	Protein Coding	42	GC12M122714	1.818952322	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HCAR3
NISCH	Nischarin	Protein Coding	50	GC03P052455	1.817929626	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NISCH
NRG4	Neuregulin 4	Protein Coding	46	GC15M075935	1.813503981	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NRG4
CHRM1	Cholinergic Receptor Muscarinic 1	Protein Coding	52	GC11M099605	1.81216979	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHRM1
PTPRA	Protein Tyrosine Phosphatase Receptor Type A	Protein Coding	52	GC20P002864	1.810213327	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPRA
MAPK12	Mitogen-Activated Protein Kinase 12	Protein Coding	54	GC22M061616	1.809207439	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAPK12
BMX	BMX Non-Receptor Tyrosine Kinase	Protein Coding	51	GC0XP015392	1.80903244	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BMX
PTPN6	Protein Tyrosine Phosphatase Non-Receptor Type 6	Protein Coding	56	GC12P023562	1.804846287	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPN6
PTPRS	Protein Tyrosine Phosphatase Receptor Type S	Protein Coding	52	GC19M006881	1.800232887	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPRS
CDH5	Cadherin 5	Protein Coding	52	GC16P066366	1.79877305	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDH5
IL10RA	Interleukin 10 Receptor Subunit Alpha	Protein Coding	53	GC11P117987	1.796459913	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL10RA

FES	FES Proto-Oncogene, Tyrosine Kinase	Protein Coding	54	GC15P090883	1.794123411	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FES
EPS15	Epidermal Growth Factor Receptor Pathway Substrate 15	Protein Coding	51	GC01M051354	1.792013168	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPS15
TPTE	Transmembrane Phosphatase With Tensin Homology	Protein Coding	43	GC21P010521	1.791667461	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TPTE
MAP1B	Microtubule Associated Protein 1B	Protein Coding	51	GC05P072107	1.789745569	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAP1B
DUSP2	Dual Specificity Phosphatase 2	Protein Coding	46	GC02M098753	1.78924489	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DUSP2
MCM7	Minichromosome Maintenance Complex Component 7	Protein Coding	52	GC07M100092	1.788851023	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MCM7
BBS9	Bardet-Biedl Syndrome 9	Protein Coding	45	GC07P033323	1.786626101	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BBS9
LCP2	Lymphocyte Cytosolic Protein 2	Protein Coding	50	GC05M170246	1.783881903	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LCP2
MAP4K4	Mitogen-Activated Protein Kinase Kinase Kinase Kinase 4	Protein Coding	54	GC02P101696	1.783666372	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAP4K4
MAGI3	Membrane Associated Guanylate Kinase, WW And PDZ Domain Containing 3	Protein Coding	40	GC01P113390	1.782776356	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAGI3
RELN	Reelin	Protein Coding	51	GC07M103471	1.78237772	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RELN
STAT4	Signal Transducer And Activator Of Transcription 4	Protein Coding	53	GC02M191029	1.777585745	https://www.genecards.org/cgi-bin/carddisp.pl?gene=STAT4
TTK	TTK Protein Kinase	Protein Coding	55	GC06P080003	1.777347088	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TTK
PNOC	Prepronociceptin	Protein Coding	44	GC08P028316	1.774571419	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PNOC
ARHGEF7	Rho Guanine Nucleotide Exchange Factor 7	Protein Coding	49	GC13P111114	1.77340126	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARHGEF7

PIP5KL1	Phosphatidylinositol-4-Phosphate 5-Kinase Like 1	Protein Coding	41	GC09M127920	1.773319483	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PIP5KL1
AP2M1	Adaptor Related Protein Complex 2 Subunit Mu 1	Protein Coding	52	GC03P184174	1.772878528	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AP2M1
SIGLEC7	Sialic Acid Binding Ig Like Lectin 7	Protein Coding	48	GC19P051142	1.770597219	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SIGLEC7
PTGFR	Prostaglandin F Receptor	Protein Coding	52	GC01P078303	1.767858982	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTGFR
OPRK1	Opioid Receptor Kappa 1	Protein Coding	52	GC08M053227	1.767608881	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OPRK1
NTF4	Neurotrophin 4	Protein Coding	53	GC19M070877	1.765598536	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NTF4
CD82	CD82 Molecule	Protein Coding	50	GC11P044586	1.765353203	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD82
BYSL	Bystin Like	Protein Coding	44	GC06P092335	1.764038563	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BYSL
LRPAP1	LDL Receptor Related Protein Associated Protein 1	Protein Coding	50	GC04M003508	1.763132095	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LRPAP1
DUSP4	Dual Specificity Phosphatase 4	Protein Coding	48	GC08M029334	1.76159811	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DUSP4
SHROOM3	Shroom Family Member 3	Protein Coding	44	GC04P076435	1.760527134	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SHROOM3
TUBA4A	Tubulin Alpha 4a	Protein Coding	53	GC02M219249	1.75995791	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TUBA4A
SSTR1	Somatostatin Receptor 1	Protein Coding	50	GC14P038207	1.759299755	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SSTR1
NES	Nestin	Protein Coding	47	GC01M156668	1.757391214	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NES
POLI	DNA Polymerase Iota	Protein Coding	48	GC18P054274	1.755850792	https://www.genecards.org/cgi-bin/carddisp.pl?gene=POLI

DDX60L	DExD/H-Box 60 Like	Protein Coding	38	GC04M168356	1.755546331	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DDX60L
C5	Complement C5	Protein Coding	53	GC09M120933	1.753865361	https://www.genecards.org/cgi-bin/carddisp.pl?gene=C5
IL18R1	Interleukin 18 Receptor 1	Protein Coding	50	GC02P102311	1.750156641	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL18R1
MYOG	Myogenin	Protein Coding	46	GC01M203083	1.747856379	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYOG
SEMA7A	Semaphorin 7A (John Milton Hagen Blood Group)	Protein Coding	51	GC15M074409	1.747343063	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SEMA7A
CD80	CD80 Molecule	Protein Coding	51	GC03M119524	1.745079517	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD80
DUSP6	Dual Specificity Phosphatase 6	Protein Coding	55	GC12M089347	1.744764328	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DUSP6
RPL26L1	Ribosomal Protein L26 Like 1	Protein Coding	40	GC05P172956	1.743719578	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPL26L1
NMUR1	Neuromedin U Receptor 1	Protein Coding	48	GC02M231986	1.743004799	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NMUR1
KAT6A	Lysine Acetyltransferase 6A	Protein Coding	52	GC08M041929	1.74228096	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KAT6A
SEMA3C	Semaphorin 3C	Protein Coding	51	GC07M080742	1.742024899	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SEMA3C
SIGLEC5	Sialic Acid Binding Ig Like Lectin 5	Protein Coding	47	GC19M071022	1.737704039	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SIGLEC5
H2BC12L	H2B Clustered Histone 12 Like	Protein Coding	34	GC21P043569	1.736407399	https://www.genecards.org/cgi-bin/carddisp.pl?gene=H2BC12L
GRIN3A	Glutamate Ionotropic Receptor NMDA Type Subunit 3A	Protein Coding	46	GC09M101569	1.736349583	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRIN3A
CORT	Cortistatin	Protein Coding	41	GC01P010529	1.734572053	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CORT

RGS4	Regulator Of G Protein Signaling 4	Protein Coding	48	GC01P163038	1.734306216	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RGS4
HAPLN1	Hyaluronan And Proteoglycan Link Protein 1	Protein Coding	48	GC05M083637	1.732725978	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HAPLN1
SCG2	Secretogranin II	Protein Coding	46	GC02M223596	1.731810331	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SCG2
GIT1	GIT ArfGAP 1	Protein Coding	49	GC17M029573	1.728217602	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GIT1
RAB9A	RAB9A, Member RAS Oncogene Family	Protein Coding	45	GC0XP013707	1.727880001	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RAB9A
TRIM27	Tripartite Motif Containing 27	Protein Coding	48	GC06M028903	1.726555586	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRIM27
PGAM4	Phosphoglycerate Mutase Family Member 4	Protein Coding	41	GC0XM077967	1.725485802	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PGAM4
IFNAR1	Interferon Alpha And Beta Receptor Subunit 1	Protein Coding	55	GC21P033324	1.725248218	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IFNAR1
HOXA10	Homeobox A10	Protein Coding	47	GC07M027673	1.723849893	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HOXA10
MAP2K6	Mitogen-Activated Protein Kinase Kinase 6	Protein Coding	53	GC17P069414	1.720388412	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAP2K6
PENK	Proenkephalin	Protein Coding	45	GC08M056436	1.717689514	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PENK
SNTA1	Syntrophin Alpha 1	Protein Coding	52	GC20M033407	1.717225552	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SNTA1
IRF8	Interferon Regulatory Factor 8	Protein Coding	52	GC16P085898	1.716549635	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IRF8
PTPDC1	Protein Tyrosine Phosphatase Domain Containing 1	Protein Coding	39	GC09P094030	1.710317612	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPDC1
ZDHHC13	Zinc Finger DHHC-Type Palmitoyltransferase 13	Protein Coding	44	GC11P019095	1.710026741	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZDHHC13

SSTR4	Somatostatin Receptor 4	Protein Coding	47	GC20P023035	1.70855999	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SSTR4
TLK2	Tousled Like Kinase 2	Protein Coding	52	GC17P062458	1.706749916	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TLK2
MPIG6B	Megakaryocyte And Platelet Inhibitory Receptor G6b	Protein Coding	44	GC06P094327	1.706351757	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MPIG6B
LIFR	LIF Receptor Subunit Alpha	Protein Coding	53	GC05M038475	1.704889536	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LIFR
ZDHHC2	Zinc Finger DHHC-Type Palmitoyltransferase 2	Protein Coding	44	GC08P017156	1.704699993	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZDHHC2
ZFP36	ZFP36 Ring Finger Protein	Protein Coding	44	GC19P039406	1.703535914	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZFP36
IL32	Interleukin 32	Protein Coding	45	GC16P013549	1.702359438	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL32
FPR2	Formyl Peptide Receptor 2	Protein Coding	53	GC19P051752	1.70159018	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FPR2
SNCG	Synuclein Gamma	Protein Coding	48	GC10P094523	1.700464964	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SNCG
LOC102724560	Cystathionine Beta-Synthase Like	Protein Coding	10	GC21M006444	1.700024605	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LOC102724560
DSG2	Desmoglein 2	Protein Coding	52	GC18P031498	1.697177649	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DSG2
PDLIM5	PDZ And LIM Domain 5	Protein Coding	47	GC04P094451	1.693854332	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDLIM5
OPRL1	Opioid Related Nociceptin Receptor 1	Protein Coding	53	GC20P064080	1.692744732	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OPRL1
SLC7A10	Solute Carrier Family 7 Member 10	Protein Coding	44	GC19M033208	1.691041231	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC7A10
EPHB2	EPH Receptor B2	Protein Coding	59	GC01P022710	1.688824892	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPHB2

PITX2	Paired Like Homeodomain 2	Protein Coding	52	GC04M110617	1.687981844	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PITX2
IL21	Interleukin 21	Protein Coding	51	GC04M122612	1.68727994	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL21
ZDHHC18	Zinc Finger DHHC-Type Palmitoyltransferase 18	Protein Coding	42	GC01P028385	1.686555862	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZDHHC18
DUSP3	Dual Specificity Phosphatase 3	Protein Coding	51	GC17M043766	1.68346417	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DUSP3
VIPR1	Vasoactive Intestinal Peptide Receptor 1	Protein Coding	52	GC03P042490	1.677259088	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VIPR1
RBL2	RB Transcriptional Corepressor Like 2	Protein Coding	52	GC16P053433	1.67690587	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RBL2
OMD	Osteomodulin	Protein Coding	46	GC09M096534	1.674594641	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OMD
EEA1	Early Endosome Antigen 1	Protein Coding	48	GC12M092770	1.672343969	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EEA1
LYVE1	Lymphatic Vessel Endothelial Hyaluronan Receptor 1	Protein Coding	49	GC11M011131	1.659945846	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LYVE1
CD2	CD2 Molecule	Protein Coding	51	GC01P116754	1.659570932	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD2
GAB2	GRB2 Associated Binding Protein 2	Protein Coding	50	GC11M078215	1.656756639	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GAB2
SRP19	Signal Recognition Particle 19	Protein Coding	46	GC05P112862	1.65417254	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SRP19
PTPRO	Protein Tyrosine Phosphatase Receptor Type O	Protein Coding	54	GC12P023827	1.647766829	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPRO
LIPI	Lipase I	Protein Coding	42	GC21M014108	1.644866705	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LIPI
PTGIR	Prostaglandin I2 Receptor	Protein Coding	54	GC19M070781	1.644169569	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTGIR

IL13RA1	Interleukin 13 Receptor Subunit Alpha 1	Protein Coding	48	GC0XP118727	1.643259287	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL13RA1
NRTN	Neurturin	Protein Coding	47	GC19P005805	1.643030405	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NRTN
PTGDR2	Prostaglandin D2 Receptor 2	Protein Coding	51	GC11M060850	1.642745137	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTGDR2
TGOLN2	Trans-Golgi Network Protein 2	Protein Coding	44	GC02M085318	1.642578602	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TGOLN2
EPHA7	EPH Receptor A7	Protein Coding	54	GC06M093240	1.64180851	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPHA7
LTK	Leukocyte Receptor Tyrosine Kinase	Protein Coding	49	GC15M041503	1.64180851	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LTK
CCNT1	Cyclin T1	Protein Coding	47	GC12M048688	1.640436649	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCNT1
GRM3	Glutamate Metabotropic Receptor 3	Protein Coding	53	GC07P086643	1.639108658	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRM3
ICA1	Islet Cell Autoantigen 1	Protein Coding	47	GC07M008428	1.638249993	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ICA1
OSMR	Oncostatin M Receptor	Protein Coding	52	GC05P038845	1.636943102	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OSMR
ICAM3	Intercellular Adhesion Molecule 3	Protein Coding	50	GC19M010421	1.635703325	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ICAM3
SFRP1	Secreted Frizzled Related Protein 1	Protein Coding	51	GC08M041262	1.635003924	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SFRP1
KCNJ4	Potassium Inwardly Rectifying Channel Subfamily J Member 4	Protein Coding	50	GC22M038426	1.631995916	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNJ4
LIMK2	LIM Domain Kinase 2	Protein Coding	52	GC22P031212	1.629135966	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LIMK2
HAND2	Heart And Neural Crest Derivatives Expressed 2	Protein Coding	50	GC04M173524	1.628247738	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HAND2

CDC37	Cell Division Cycle 37, HSP90 Cochaperone	Protein Coding	50	GC19M010391	1.62809515	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDC37
HOXA9	Homeobox A9	Protein Coding	45	GC07M027162	1.626486778	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HOXA9
CAPN2	Calpain 2	Protein Coding	54	GC01P223701	1.625161171	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CAPN2
BRD8	Bromodomain Containing 8	Protein Coding	45	GC05M138152	1.625022411	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BRD8
ASCL1	Achaete-Scute Family BHLH Transcription Factor 1	Protein Coding	50	GC12P102957	1.621473312	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ASCL1
EFNB1	Ephrin B1	Protein Coding	52	GC0XP068828	1.620697021	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EFNB1
POU2AF1	POU Class 2 Homeobox Associating Factor 1	Protein Coding	44	GC11M111352	1.620057344	https://www.genecards.org/cgi-bin/carddisp.pl?gene=POU2AF1
HMGN2	High Mobility Group Nucleosomal Binding Domain 2	Protein Coding	46	GC01P026473	1.617171049	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HMGN2
LGALS13	Galectin 13	Protein Coding	43	GC19P039602	1.616792679	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LGALS13
SULF1	Sulfatase 1	Protein Coding	49	GC08P069466	1.616624832	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SULF1
FGF4	Fibroblast Growth Factor 4	Protein Coding	50	GC11M099886	1.614102602	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGF4
AKAP1	A-Kinase Anchoring Protein 1	Protein Coding	47	GC17P057085	1.612334251	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AKAP1
RYK	Receptor Like Tyrosine Kinase	Protein Coding	50	GC03M134065	1.611094236	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RYK
CCNB2	Cyclin B2	Protein Coding	51	GC15P059105	1.610750675	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCNB2
TPPP3	Tubulin Polymerization Promoting Protein Family Member 3	Protein Coding	43	GC16M067389	1.609044194	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TPPP3

CASP14	Caspase 14	Protein Coding	53	GC19P015049	1.608549476	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CASP14
PTPRB	Protein Tyrosine Phosphatase Receptor Type B	Protein Coding	52	GC12M070516	1.608270049	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPRB
KCND3	Potassium Voltage-Gated Channel Subfamily D Member 3	Protein Coding	53	GC01M111770	1.607928157	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCND3
TOM1	Target Of Myb1 Membrane Trafficking Protein	Protein Coding	49	GC22P035299	1.60710144	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TOM1
C2CD5	C2 Calcium Dependent Domain Containing 5	Protein Coding	40	GC12M022448	1.606956601	https://www.genecards.org/cgi-bin/carddisp.pl?gene=C2CD5
TAC3	Tachykinin Precursor 3	Protein Coding	50	GC12M057108	1.605289936	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TAC3
ERG	ETS Transcription Factor ERG	Protein Coding	53	GC21M038367	1.603666306	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ERG
EN2	Engrailed Homeobox 2	Protein Coding	46	GC07P155459	1.602025986	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EN2
SAG	S-Antigen Visual Arrestin	Protein Coding	51	GC02P233400	1.600292444	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SAG
KIR3DL1	Killer Cell Immunoglobulin Like Receptor, Three Ig Domains And Long Cytoplasmic Tail 1	Protein Coding	46	GC19P073503	1.599633932	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KIR3DL1
CHRNA4	Cholinergic Receptor Nicotinic Alpha 4 Subunit	Protein Coding	56	GC20M063343	1.597695589	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHRNA4
CCL26	C-C Motif Chemokine Ligand 26	Protein Coding	44	GC07M075769	1.596167326	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCL26
RNF41	Ring Finger Protein 41	Protein Coding	46	GC12M056202	1.593486309	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RNF41
TLR5	Toll Like Receptor 5	Protein Coding	53	GC01M223109	1.591864109	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TLR5
PI3	Peptidase Inhibitor 3	Protein Coding	44	GC20P045174	1.590837479	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PI3

CD209	CD209 Molecule	Protein Coding	50	GC19M007739	1.590370893	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD209
MVP	Major Vault Protein	Protein Coding	47	GC16P042738	1.587863684	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MVP
REG1A	Regenerating Family Member 1 Alpha	Protein Coding	46	GC02P079120	1.587365627	https://www.genecards.org/cgi-bin/carddisp.pl?gene=REG1A
TDP1	Tyrosyl-DNA Phosphodiesterase 1	Protein Coding	51	GC14P089954	1.585007429	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TDP1
CHRNA1	Cholinergic Receptor Nicotinic Alpha 1 Subunit	Protein Coding	52	GC02M174747	1.583951354	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHRNA1
ANP32A	Acidic Nuclear Phosphoprotein 32 Family Member A	Protein Coding	50	GC15M068778	1.581532955	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ANP32A
GAP43	Growth Associated Protein 43	Protein Coding	50	GC03P115623	1.578776121	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GAP43
RBM14	RNA Binding Motif Protein 14	Protein Coding	45	GC11P070979	1.578552961	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RBM14
CSTA	Cystatin A	Protein Coding	51	GC03P122325	1.577850103	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CSTA
LMTK3	Lemur Tyrosine Kinase 3	Protein Coding	42	GC19M048485	1.575712204	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LMTK3
SH3KBP1	SH3 Domain Containing Kinase Binding Protein 1	Protein Coding	48	GC0XM019552	1.574989557	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SH3KBP1
SLIT3	Slit Guidance Ligand 3	Protein Coding	48	GC05M168661	1.573313236	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLIT3
WAS	WASP Actin Nucleation Promoting Factor	Protein Coding	55	GC0XP048676	1.572755575	https://www.genecards.org/cgi-bin/carddisp.pl?gene=WAS
FCGR2B	Fc Gamma Receptor IIb	Protein Coding	56	GC01P161823	1.570428848	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FCGR2B
PTPRU	Protein Tyrosine Phosphatase Receptor Type U	Protein Coding	50	GC01P029236	1.567531228	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPRU

ITSN1	Intersectin 1	Protein Coding	48	GC21P033642	1.564399242	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITSN1
ABI2	Abl Interactor 2	Protein Coding	45	GC02P203327	1.561905265	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABI2
VAV1	Vav Guanine Nucleotide Exchange Factor 1	Protein Coding	52	GC19P006772	1.559613466	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VAV1
BCL3	BCL3 Transcription Coactivator	Protein Coding	48	GC19P044747	1.558552265	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BCL3
STATH	Statherin	Protein Coding	38	GC04P069995	1.558440924	https://www.genecards.org/cgi-bin/carddisp.pl?gene=STATH
TOLLIP	Toll Interacting Protein	Protein Coding	51	GC11M001274	1.555968523	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TOLLIP
IL22RA2	Interleukin 22 Receptor Subunit Alpha 2	Protein Coding	47	GC06M137143	1.553938866	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL22RA2
THBS4	Thrombospondin 4	Protein Coding	50	GC05P079991	1.549686193	https://www.genecards.org/cgi-bin/carddisp.pl?gene=THBS4
TRPA1	Transient Receptor Potential Cation Channel Subfamily A Member 1	Protein Coding	53	GC08M072019	1.548540115	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRPA1
S100A10	S100 Calcium Binding Protein A10	Protein Coding	50	GC01M152817	1.548104286	https://www.genecards.org/cgi-bin/carddisp.pl?gene=S100A10
ABL2	ABL Proto-Oncogene 2, Non-Receptor Tyrosine Kinase	Protein Coding	52	GC01M179143	1.548074484	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABL2
PIGF	Phosphatidylinositol Glycan Anchor Biosynthesis Class F	Protein Coding	46	GC02M046580	1.547854424	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PIGF
EGR2	Early Growth Response 2	Protein Coding	51	GC10M062811	1.542626143	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EGR2
ZKSCAN7	Zinc Finger With KRAB And SCAN Domains 7	Protein Coding	39	GC03P044556	1.539433479	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZKSCAN7
CHRND	Cholinergic Receptor Nicotinic Delta Subunit	Protein Coding	50	GC02P232525	1.539049506	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHRND

ELP3	Elongator Acetyltransferase Complex Subunit 3	Protein Coding	48	GC08P028089	1.538787603	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ELP3
FCER1G	Fc Epsilon Receptor Ig	Protein Coding	48	GC01P161215	1.535698891	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FCER1G
SHB	SH2 Domain Containing Adaptor Protein B	Protein Coding	46	GC09M040554	1.535517454	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SHB
MSBP2	Minisatellite Binding Protein 2	Protein Coding	5	GC00U990214	1.533616304	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MSBP2
WNT11	Wnt Family Member 11	Protein Coding	50	GC11M076186	1.532100201	https://www.genecards.org/cgi-bin/carddisp.pl?gene=WNT11
TBXT	T-Box Transcription Factor T	Protein Coding	50	GC06M166158	1.531953096	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TBXT
MAP3K2	Mitogen-Activated Protein Kinase Kinase Kinase 2	Protein Coding	52	GC02M127298	1.531584501	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAP3K2
FGFRL1	Fibroblast Growth Factor Receptor Like 1	Protein Coding	50	GC04P001370	1.53033185	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGFRL1
CLEC12A	C-Type Lectin Domain Family 12 Member A	Protein Coding	46	GC12P009951	1.528077364	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CLEC12A
PTPN9	Protein Tyrosine Phosphatase Non-Receptor Type 9	Protein Coding	46	GC15M075463	1.525749922	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPN9
BAIAP2	BAR/IMD Domain Containing Adaptor Protein 2	Protein Coding	48	GC17P081035	1.525718451	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BAIAP2
CA11	Carbonic Anhydrase 11	Protein Coding	44	GC19M070852	1.523382664	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CA11
JPH4	Junctophilin 4	Protein Coding	41	GC14M023568	1.521375775	https://www.genecards.org/cgi-bin/carddisp.pl?gene=JPH4
GCAT	Glycine C-Acetyltransferase	Protein Coding	47	GC22P037807	1.521194458	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GCAT
PMP22	Peripheral Myelin Protein 22	Protein Coding	50	GC17M015229	1.517963052	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PMP22

MUC4	Mucin 4, Cell Surface Associated	Protein Coding	47	GC03M195746	1.517698765	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MUC4
GAB1	GRB2 Associated Binding Protein 1	Protein Coding	51	GC04P143336	1.514995813	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GAB1
FRS2	Fibroblast Growth Factor Receptor Substrate 2	Protein Coding	46	GC12P069471	1.51312685	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FRS2
SV2A	Synaptic Vesicle Glycoprotein 2A	Protein Coding	50	GC01M149903	1.510024309	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SV2A
MATK	Megakaryocyte-Associated Tyrosine Kinase	Protein Coding	51	GC19M003777	1.509203672	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MATK
ABI1	Abl Interactor 1	Protein Coding	50	GC10M026746	1.507948875	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABI1
SCYL1	SCY1 Like Pseudokinase 1	Protein Coding	49	GC11P065525	1.507302999	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SCYL1
CD22	CD22 Molecule	Protein Coding	53	GC19P035319	1.507148862	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD22
SNX9	Sorting Nexin 9	Protein Coding	47	GC06P157702	1.507115602	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SNX9
ZYX	Zyxin	Protein Coding	52	GC07P143381	1.506281376	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZYX
DUSP13	Dual Specificity Phosphatase 13	Protein Coding	45	GC10M075094	1.505273819	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DUSP13
PDPN	Podoplanin	Protein Coding	48	GC01P013583	1.504307032	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDPN
FKBP5	FKBP Prolyl Isomerase 5	Protein Coding	56	GC06M071862	1.503385782	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FKBP5
HECTD2	HECT Domain E3 Ubiquitin Protein Ligase 2	Protein Coding	42	GC10P091409	1.502227306	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HECTD2
SPN	Sialophorin	Protein Coding	47	GC16P029662	1.501608849	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SPN

TNR	Tenascin R	Protein Coding	50	GC01M175291	1.499696016	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNR
KTI12	KTI12 Chromatin Associated Homolog	Protein Coding	36	GC01M052032	1.497702956	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KTI12
MED30	Mediator Complex Subunit 30	Protein Coding	43	GC08P117521	1.497054815	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MED30
RNASE1	Ribonuclease A Family Member 1, Pancreatic	Protein Coding	48	GC14M020801	1.49683392	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RNASE1
P2RX3	Purinergic Receptor P2X 3	Protein Coding	50	GC11P057356	1.494965792	https://www.genecards.org/cgi-bin/carddisp.pl?gene=P2RX3
FYB1	FYN Binding Protein 1	Protein Coding	50	GC05M039105	1.491333246	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FYB1
TGFB111	Transforming Growth Factor Beta 1 Induced Transcript 1	Protein Coding	48	GC16P042867	1.490437984	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TGFB111
ACKR1	Atypical Chemokine Receptor 1 (Duffy Blood Group)	Protein Coding	48	GC01P159203	1.488973379	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACKR1
PTK7	Protein Tyrosine Kinase 7 (Inactive)	Protein Coding	52	GC06P043076	1.488434076	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTK7
CHRNA2	Cholinergic Receptor Nicotinic Beta 2 Subunit	Protein Coding	53	GC01P154568	1.48781085	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHRNA2
CTSW	Cathepsin W	Protein Coding	43	GC11P065879	1.486487627	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTSW
CCR4	C-C Motif Chemokine Receptor 4	Protein Coding	51	GC03P032951	1.486412525	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCR4
TRIP6	Thyroid Hormone Receptor Interactor 6	Protein Coding	46	GC07P100867	1.486283898	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRIP6
MPP1	MAGUK P55 Scaffold Protein 1	Protein Coding	46	GC0XM154779	1.485907793	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MPP1
GLRA1	Glycine Receptor Alpha 1	Protein Coding	53	GC05M151822	1.483913183	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GLRA1

EIF4H	Eukaryotic Translation Initiation Factor 4H	Protein Coding	48	GC07P074174	1.483606577	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EIF4H
HDAC8	Histone Deacetylase 8	Protein Coding	55	GC0XM072329	1.483047009	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HDAC8
MAP4K2	Mitogen-Activated Protein Kinase Kinase Kinase Kinase 2	Protein Coding	53	GC11M099661	1.471613169	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAP4K2
MRPL28	Mitochondrial Ribosomal Protein L28	Protein Coding	43	GC16M000366	1.47159481	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MRPL28
AQP5	Aquaporin 5	Protein Coding	53	GC12P049961	1.471539617	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AQP5
PPP2R3A	Protein Phosphatase 2 Regulatory Subunit B"Alpha	Protein Coding	43	GC03P135965	1.46496439	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PPP2R3A
TRIM22	Tripartite Motif Containing 22	Protein Coding	46	GC11P005689	1.461960793	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRIM22
SIT1	Signaling Threshold Regulating Transmembrane Adaptor 1	Protein Coding	43	GC09M035640	1.460095882	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SIT1
PDIA2	Protein Disulfide Isomerase Family A Member 2	Protein Coding	48	GC16P013436	1.459900379	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDIA2
ETV1	ETS Variant Transcription Factor 1	Protein Coding	51	GC07M013891	1.45987165	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ETV1
VEGFD	Vascular Endothelial Growth Factor D	Protein Coding	47	GC0XM015345	1.458869696	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VEGFD
LRIG1	Leucine Rich Repeats And Immunoglobulin Like Domains 1	Protein Coding	49	GC03M066379	1.458433747	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LRIG1
ACTR3	Actin Related Protein 3	Protein Coding	47	GC02P113889	1.458372474	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACTR3
PTPRK	Protein Tyrosine Phosphatase Receptor Type K	Protein Coding	51	GC06M127949	1.45528698	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPRK
DCTN2	Dynactin Subunit 2	Protein Coding	47	GC12M057771	1.454296112	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DCTN2

TDGF1	Teratocarcinoma-Derived Growth Factor 1	Protein Coding	49	GC03P047633	1.454260468	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TDGF1
TEC	Tec Protein Tyrosine Kinase	Protein Coding	52	GC04M048177	1.453444481	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TEC
EIF3B	Eukaryotic Translation Initiation Factor 3 Subunit B	Protein Coding	45	GC07P002354	1.452422142	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EIF3B
NRGN	Neurogranin	Protein Coding	44	GC11P124739	1.450027466	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NRGN
FIP1L1	Factor Interacting With PAPOLA And CPSF1	Protein Coding	47	GC04P053435	1.449950576	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FIP1L1
EFNA3	Ephrin A3	Protein Coding	51	GC01P155078	1.446974158	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EFNA3
GLI2	GLI Family Zinc Finger 2	Protein Coding	56	GC02P120735	1.444097519	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GLI2
CIT	Citron Rho-Interacting Serine/Threonine Kinase	Protein Coding	54	GC12M119687	1.443084955	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CIT
KIFAP3	Kinesin Associated Protein 3	Protein Coding	46	GC01M169921	1.442029834	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KIFAP3
GJB2	Gap Junction Protein Beta 2	Protein Coding	52	GC13M020187	1.441787243	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GJB2
KAT7	Lysine Acetyltransferase 7	Protein Coding	49	GC17P049788	1.440423012	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KAT7
DOK1	Docking Protein 1	Protein Coding	50	GC02P074549	1.440416574	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DOK1
MIR26A2	MicroRNA 26a-2	RNA Gene	22	GC12M057824	1.43974936	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR26A2
RDX	Radixin	Protein Coding	53	GC11M109864	1.43893826	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RDX
CLUH	Clustered Mitochondria Homolog	Protein Coding	43	GC17M002689	1.43893826	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CLUH

PTPRG	Protein Tyrosine Phosphatase Receptor Type G	Protein Coding	51	GC03P061561	1.437517405	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPRG
TRMT6	TRNA Methyltransferase 6 Non-Catalytic Subunit	Protein Coding	40	GC20M005937	1.436141014	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRMT6
FOSB	FosB Proto-Oncogene, AP-1 Transcription Factor Subunit	Protein Coding	49	GC19P045467	1.435516	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FOSB
EFNA2	Ephrin A2	Protein Coding	48	GC19P003719	1.432334781	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EFNA2
HEMK1	HemK Methyltransferase Family Member 1	Protein Coding	42	GC03P050569	1.430846691	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HEMK1
CLCF1	Cardiotrophin Like Cytokine Factor 1	Protein Coding	49	GC11M067364	1.427292824	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CLCF1
CEBPZ	CCAAT Enhancer Binding Protein Zeta	Protein Coding	46	GC02M037201	1.425809264	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CEBPZ
CRIP1	Cysteine Rich Protein 1	Protein Coding	43	GC14P105486	1.425279856	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CRIP1
ICAM2	Intercellular Adhesion Molecule 2	Protein Coding	51	GC17M064002	1.424790382	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ICAM2
PTK6	Protein Tyrosine Kinase 6	Protein Coding	54	GC20M063528	1.424619913	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTK6
RGS19	Regulator Of G Protein Signaling 19	Protein Coding	48	GC20M064073	1.423856258	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RGS19
CALD1	Caldesmon 1	Protein Coding	50	GC07P134744	1.423612356	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CALD1
CTRB1	Chymotrypsinogen B1	Protein Coding	44	GC16P075218	1.420039415	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTRB1
SIRPA	Signal Regulatory Protein Alpha	Protein Coding	52	GC20P001894	1.419333458	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SIRPA
NDN	Necdin, MAGE Family Member	Protein Coding	48	GC15M024541	1.415067673	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NDN

UBE2E2	Ubiquitin Conjugating Enzyme E2 E2	Protein Coding	46	GC03P023221	1.414947867	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UBE2E2
CDY1	Chromodomain Y-Linked 1	Protein Coding	35	GC0YP026181	1.41431427	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDY1
HECA	Hdc Homolog, Cell Cycle Regulator	Protein Coding	39	GC06P139135	1.412382364	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HECA
S1PR3	Sphingosine-1-Phosphate Receptor 3	Protein Coding	52	GC09P089518	1.411020994	https://www.genecards.org/cgi-bin/carddisp.pl?gene=S1PR3
ID1	Inhibitor Of DNA Binding 1	Protein Coding	47	GC20P031605	1.410467505	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ID1
SLC38A5	Solute Carrier Family 38 Member 5	Protein Coding	44	GC0XM048458	1.409354568	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC38A5
CCDC6	Coiled-Coil Domain Containing 6	Protein Coding	47	GC10M059788	1.406749368	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCDC6
TIRAP	TIR Domain Containing Adaptor Protein	Protein Coding	50	GC11P126284	1.405854225	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TIRAP
ADAD1	Adenosine Deaminase Domain Containing 1	Protein Coding	41	GC04P122378	1.405854225	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADAD1
GLYATL2	Glycine-N-Acyltransferase Like 2	Protein Coding	38	GC11M099448	1.405657053	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GLYATL2
GOLGA5	Golgin A5	Protein Coding	44	GC14P092794	1.404361129	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GOLGA5
CXCL2	C-X-C Motif Chemokine Ligand 2	Protein Coding	46	GC04M074097	1.401093721	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CXCL2
INSRR	Insulin Receptor Related Receptor	Protein Coding	50	GC01M156840	1.400798559	https://www.genecards.org/cgi-bin/carddisp.pl?gene=INSRR
UGT2A3	UDP Glucuronosyltransferase Family 2 Member A3	Protein Coding	44	GC04M068928	1.396822453	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UGT2A3
GJB1	Gap Junction Protein Beta 1	Protein Coding	53	GC0XP071212	1.396408558	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GJB1

AZU1	Azurocidin 1	Protein Coding	46	GC19P000825	1.392551899	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AZU1
LILRB2	Leukocyte Immunoglobulin Like Receptor B2	Protein Coding	46	GC19M071132	1.392198324	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LILRB2
PHOX2A	Paired Like Homeobox 2A	Protein Coding	48	GC11M072239	1.391584873	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PHOX2A
ADARB1	Adenosine Deaminase RNA Specific B1	Protein Coding	51	GC21P045073	1.391404986	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADARB1
CD160	CD160 Molecule	Protein Coding	48	GC01P145719	1.386499882	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD160
CD226	CD226 Molecule	Protein Coding	48	GC18M069831	1.386499882	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD226
FLT3LG	Fms Related Receptor Tyrosine Kinase 3 Ligand	Protein Coding	46	GC19P073231	1.38465929	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FLT3LG
SNX13	Sorting Nexin 13	Protein Coding	43	GC07M017798	1.38465929	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SNX13
PTPRH	Protein Tyrosine Phosphatase Receptor Type H	Protein Coding	46	GC19M055181	1.382741332	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPRH
CLDN4	Claudin 4	Protein Coding	46	GC07P073799	1.380390525	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CLDN4
GET1	Guided Entry Of Tail-Anchored Proteins Factor 1	Protein Coding	41	GC21P039377	1.379169941	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GET1
MFAP2	Microfibril Associated Protein 2	Protein Coding	47	GC01M016974	1.378049135	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MFAP2
CASQ2	Calsequestrin 2	Protein Coding	51	GC01M115700	1.377944827	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CASQ2
ANXA4	Annexin A4	Protein Coding	48	GC02P069644	1.377457976	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ANXA4
TMPRSS2	Transmembrane Serine Protease 2	Protein Coding	55	GC21M041464	1.37644577	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TMPRSS2

MYBL2	MYB Proto-Oncogene Like 2	Protein Coding	49	GC20P043667	1.375777125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYBL2
ERC1	ELKS/RAB6-Interacting/CAST Family Member 1	Protein Coding	48	GC12P000972	1.375777125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ERC1
RASA2	RAS P21 Protein Activator 2	Protein Coding	46	GC03P141487	1.37325263	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RASA2
CD244	CD244 Molecule	Protein Coding	50	GC01M160830	1.372381926	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD244
GTF2B	General Transcription Factor IIB	Protein Coding	47	GC01M088853	1.372071028	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GTF2B
GFRA1	GDNF Family Receptor Alpha 1	Protein Coding	53	GC10M116056	1.371281862	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GFRA1
BAG1	BAG Cochaperone 1	Protein Coding	47	GC09M033245	1.370138407	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BAG1
CDC25B	Cell Division Cycle 25B	Protein Coding	52	GC20P004512	1.369985104	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDC25B
DEFB4A	Defensin Beta 4A	Protein Coding	42	GC08P007900	1.367897034	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DEFB4A
SPAG9	Sperm Associated Antigen 9	Protein Coding	47	GC17M050962	1.366934896	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SPAG9
ITGB5	Integrin Subunit Beta 5	Protein Coding	53	GC03M124761	1.364701748	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGB5
EPS15L1	Epidermal Growth Factor Receptor Pathway Substrate 15 Like 1	Protein Coding	46	GC19M016333	1.364116907	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPS15L1
CTNNA1	Catenin Alpha 1	Protein Coding	52	GC05P138613	1.36270237	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTNNA1
TAGLN	Transgelin	Protein Coding	50	GC11P117199	1.360505223	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TAGLN
ARHGDIB	Rho GDP Dissociation Inhibitor Beta	Protein Coding	48	GC12M014942	1.357345819	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARHGDIB

MSMB	Microseminoprotein Beta	Protein Coding	47	GC10M046033	1.356166363	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MSMB
PTN	Pleiotrophin	Protein Coding	47	GC07M137227	1.355832815	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTN
MEIS1	Meis Homeobox 1	Protein Coding	48	GC02P066433	1.35497427	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MEIS1
EPHA1	EPH Receptor A1	Protein Coding	54	GC07M143390	1.35342288	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPHA1
YES1	YES Proto-Oncogene 1, Src Family Tyrosine Kinase	Protein Coding	54	GC18M000721	1.35342288	https://www.genecards.org/cgi-bin/carddisp.pl?gene=YES1
LAIR1	Leukocyte Associated Immunoglobulin Like Receptor 1	Protein Coding	48	GC19M054351	1.353043079	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LAIR1
TFPT	TCF3 Fusion Partner	Protein Coding	42	GC19M054107	1.352261066	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TFPT
SH2B2	SH2B Adaptor Protein 2	Protein Coding	44	GC07P102286	1.35112071	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SH2B2
GRIN2C	Glutamate Ionotropic Receptor NMDA Type Subunit 2C	Protein Coding	52	GC17M074842	1.350762725	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRIN2C
P2RY1	Purinergic Receptor P2Y1	Protein Coding	53	GC03P152835	1.347520828	https://www.genecards.org/cgi-bin/carddisp.pl?gene=P2RY1
IL3RA	Interleukin 3 Receptor Subunit Alpha	Protein Coding	51	GC0XP001336	1.346916914	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL3RA
IL1RAP	Interleukin 1 Receptor Accessory Protein	Protein Coding	53	GC03P190514	1.346740007	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL1RAP
EFNA1	Ephrin A1	Protein Coding	51	GC01P155127	1.343958974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EFNA1
GLI1	GLI Family Zinc Finger 1	Protein Coding	56	GC12P057616	1.343919992	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GLI1
RHOD	Ras Homolog Family Member D	Protein Coding	43	GC11P071007	1.342387915	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RHOD

PTPRM	Protein Tyrosine Phosphatase Receptor Type M	Protein Coding	51	GC18P007557	1.341762543	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPRM
ZDHHC20	Zinc Finger DHHC-Type Palmitoyltransferase 20	Protein Coding	42	GC13M021570	1.341608047	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZDHHC20
CD72	CD72 Molecule	Protein Coding	46	GC09M035610	1.341193438	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD72
IRF2	Interferon Regulatory Factor 2	Protein Coding	49	GC04M184387	1.339345694	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IRF2
ETF1	Eukaryotic Translation Termination Factor 1	Protein Coding	49	GC05M138506	1.33785367	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ETF1
CD3G	CD3 Gamma Subunit Of T-Cell Receptor Complex	Protein Coding	54	GC11P118344	1.336899042	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD3G
CACNG2	Calcium Voltage-Gated Channel Auxiliary Subunit Gamma 2	Protein Coding	51	GC22M061447	1.336666226	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CACNG2
CASP6	Caspase 6	Protein Coding	55	GC04M109688	1.335477829	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CASP6
DST	Dystonin	Protein Coding	49	GC06M056457	1.333791614	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DST
SIGLEC1	Sialic Acid Binding Ig Like Lectin 1	Protein Coding	47	GC20M003686	1.33364892	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SIGLEC1
SPIB	Spi-B Transcription Factor	Protein Coding	46	GC19P050418	1.333257198	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SPIB
CBLB	Cbl Proto-Oncogene B	Protein Coding	52	GC03M105655	1.332267404	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CBLB
CBLC	Cbl Proto-Oncogene C	Protein Coding	44	GC19P044777	1.332267404	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CBLC
ISG20	Interferon Stimulated Exonuclease Gene 20	Protein Coding	46	GC15P088635	1.330898881	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ISG20
TGFBR3	Transforming Growth Factor Beta Receptor 3	Protein Coding	53	GC01M091680	1.329393387	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TGFBR3

PTPRE	Protein Tyrosine Phosphatase Receptor Type E	Protein Coding	49	GC10P127907	1.328865051	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPRE
HMG1	High Mobility Group Nucleosome Binding Domain 1	Protein Coding	47	GC21M039342	1.328797698	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HMG1
LPAR2	Lysophosphatidic Acid Receptor 2	Protein Coding	52	GC19M019624	1.32547009	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LPAR2
TM9SF2	Transmembrane 9 Superfamily Member 2	Protein Coding	42	GC13P099446	1.323809385	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TM9SF2
CCL8	C-C Motif Chemokine Ligand 8	Protein Coding	46	GC17P034319	1.31999135	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCL8
NPSR1	Neuropeptide S Receptor 1	Protein Coding	47	GC07P034664	1.319486618	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPSR1
AGFG1	ArfGAP With FG Repeats 1	Protein Coding	47	GC02P227473	1.318310976	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AGFG1
RECQL	RecQ Like Helicase	Protein Coding	48	GC12M021468	1.316822648	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RECQL
GAK	Cyclin G Associated Kinase	Protein Coding	51	GC04M000849	1.314225674	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GAK
MAP3K4	Mitogen-Activated Protein Kinase Kinase Kinase 4	Protein Coding	50	GC06P160991	1.314225674	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAP3K4
DUSP5	Dual Specificity Phosphatase 5	Protein Coding	48	GC10P110497	1.314225674	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DUSP5
FSCN1	Fascin Actin-Bundling Protein 1	Protein Coding	51	GC07P005592	1.31301713	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FSCN1
PAX3	Paired Box 3	Protein Coding	52	GC02M222199	1.312791586	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PAX3
STYX	Serine/Threonine/Tyrosine Interacting Protein	Protein Coding	41	GC14P052730	1.310669065	https://www.genecards.org/cgi-bin/carddisp.pl?gene=STYX
GNPNAT1	Glucosamine-Phosphate N-Acetyltransferase 1	Protein Coding	46	GC14M052775	1.30973053	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GNPNAT1

HOXA1	Homeobox A1	Protein Coding	48	GC07M027092	1.308444142	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HOXA1
ZP3	Zona Pellucida Glycoprotein 3	Protein Coding	50	GC07P076837	1.305477381	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZP3
PAK3	P21 (RAC1) Activated Kinase 3	Protein Coding	57	GC0XP110944	1.301856756	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PAK3
EFNA4	Ephrin A4	Protein Coding	50	GC01P155063	1.301198006	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EFNA4
CD84	CD84 Molecule	Protein Coding	49	GC01M160541	1.301198006	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD84
CTNND2	Catenin Delta 2	Protein Coding	49	GC05M010971	1.297608376	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTNND2
CYTH1	Cytohesin 1	Protein Coding	48	GC17M078674	1.297608376	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYTH1
TESK1	Testis Associated Actin Remodelling Kinase 1	Protein Coding	48	GC09P035605	1.296860695	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TESK1
NECTIN1	Nectin Cell Adhesion Molecule 1	Protein Coding	53	GC11M119624	1.296584606	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NECTIN1
WASF2	WASP Family Member 2	Protein Coding	50	GC01M027404	1.296584606	https://www.genecards.org/cgi-bin/carddisp.pl?gene=WASF2
NCOA4	Nuclear Receptor Coactivator 4	Protein Coding	46	GC10M046005	1.295899391	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NCOA4
TRIP10	Thyroid Hormone Receptor Interactor 10	Protein Coding	47	GC19P006737	1.292088509	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRIP10
PRSS3	Serine Protease 3	Protein Coding	50	GC09P033750	1.290347695	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRSS3
GRIN2D	Glutamate Ionotropic Receptor NMDA Type Subunit 2D	Protein Coding	55	GC19P073182	1.288183808	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRIN2D
KLRD1	Killer Cell Lectin Like Receptor D1	Protein Coding	48	GC12P010226	1.287742376	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KLRD1

MAP4K1	Mitogen-Activated Protein Kinase Kinase Kinase Kinase 1	Protein Coding	50	GC19M038587	1.286914349	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAP4K1
KIF5A	Kinesin Family Member 5A	Protein Coding	51	GC12P057555	1.28510344	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KIF5A
GYPC	Glycophorin C (Gerbich Blood Group)	Protein Coding	50	GC02P126655	1.281240463	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GYPC
SORBS2	Sorbin And SH3 Domain Containing 2	Protein Coding	47	GC04M185585	1.275793552	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SORBS2
EFS	Embryonal Fyn-Associated Substrate	Protein Coding	41	GC14M023356	1.274370074	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EFS
PTPRT	Protein Tyrosine Phosphatase Receptor Type T	Protein Coding	51	GC20M042072	1.274230242	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPRT
MAP3K13	Mitogen-Activated Protein Kinase Kinase Kinase 13	Protein Coding	48	GC03P185282	1.274230242	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAP3K13
ABCC10	ATP Binding Cassette Subfamily C Member 10	Protein Coding	45	GC06P043427	1.270961523	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABCC10
SH2D4B	SH2 Domain Containing 4B	Protein Coding	38	GC10P094472	1.270071507	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SH2D4B
PLCXD3	Phosphatidylinositol Specific Phospholipase C X Domain Containing 3	Protein Coding	43	GC05M041306	1.269739866	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLCXD3
GMNN	Geminin DNA Replication Inhibitor	Protein Coding	51	GC06P024779	1.268566847	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GMNN
NFE2	Nuclear Factor, Erythroid 2	Protein Coding	46	GC12M054292	1.266424775	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NFE2
SLC15A4	Solute Carrier Family 15 Member 4	Protein Coding	44	GC12M128793	1.263706923	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC15A4
RPL10L	Ribosomal Protein L10 Like	Protein Coding	42	GC14M046651	1.262371421	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPL10L
GRM6	Glutamate Metabotropic Receptor 6	Protein Coding	53	GC05M178978	1.260549188	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRM6

DOCK1	Dedicator Of Cytokinesis 1	Protein Coding	50	GC10P126905	1.260548592	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DOCK1
GRIP2	Glutamate Receptor Interacting Protein 2	Protein Coding	42	GC03M021835	1.258551359	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRIP2
NRBF2	Nuclear Receptor Binding Factor 2	Protein Coding	43	GC10P063133	1.257070303	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NRBF2
ADD2	Adducin 2	Protein Coding	47	GC02M070626	1.252891302	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADD2
CNTNAP1	Contactin Associated Protein 1	Protein Coding	50	GC17P042682	1.252706528	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CNTNAP1
MDK	Midkine	Protein Coding	50	GC11P046380	1.25058341	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MDK
ZBTB11	Zinc Finger And BTB Domain Containing 11	Protein Coding	42	GC03M101648	1.248044372	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZBTB11
CNTNAP2	Contactin Associated Protein 2	Protein Coding	51	GC07P146116	1.244960666	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CNTNAP2
ZDHHC21	Zinc Finger DHHC-Type Palmitoyltransferase 21	Protein Coding	40	GC09M014590	1.242198229	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZDHHC21
TSC22D3	TSC22 Domain Family Member 3	Protein Coding	46	GC0XM107713	1.240224838	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TSC22D3
KAT6B	Lysine Acetyltransferase 6B	Protein Coding	52	GC10P074873	1.239717484	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KAT6B
DFFB	DNA Fragmentation Factor Subunit Beta	Protein Coding	50	GC01P003857	1.237127662	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DFFB
CD6	CD6 Molecule	Protein Coding	48	GC11P060971	1.236596346	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD6
GRB7	Growth Factor Receptor Bound Protein 7	Protein Coding	50	GC17P061875	1.234689474	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRB7
CDYL	Chromodomain Y Like	Protein Coding	46	GC06P004706	1.230699301	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDYL

EPHB6	EPH Receptor B6	Protein Coding	51	GC07P149981	1.230352283	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPHB6
STAM	Signal Transducing Adaptor Molecule	Protein Coding	47	GC10P017698	1.228438377	https://www.genecards.org/cgi-bin/carddisp.pl?gene=STAM
CYRIB	CYFIP Related Rac1 Interactor B	Protein Coding	40	GC08M132565	1.221472621	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYRIB
GLRA2	Glycine Receptor Alpha 2	Protein Coding	52	GC0XP014448	1.221354008	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GLRA2
SNU13	Small Nuclear Ribonucleoprotein 13	Protein Coding	46	GC22M061492	1.218278646	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SNU13
TREM1	Triggering Receptor Expressed On Myeloid Cells 1	Protein Coding	48	GC06M041267	1.218127251	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TREM1
ZDHHC1	Zinc Finger DHHC-Type Containing 1	Protein Coding	42	GC16M067394	1.217028856	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZDHHC1
NFASC	Neurofascin	Protein Coding	50	GC01P204828	1.212895989	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NFASC
TYROBP	Transmembrane Immune Signaling Adaptor TYROBP	Protein Coding	50	GC19M035904	1.212895989	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TYROBP
RHOQ	Ras Homolog Family Member Q	Protein Coding	48	GC02P046543	1.205293775	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RHOQ
NEDD9	Neural Precursor Cell Expressed, Developmentally Down-Regulated 9	Protein Coding	48	GC06M011183	1.203222752	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NEDD9
ZDHHC17	Zinc Finger DHHC-Type Palmitoyltransferase 17	Protein Coding	44	GC12P076763	1.20134306	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZDHHC17
MARCKSL1	MARCKS Like 1	Protein Coding	43	GC01M032334	1.201022148	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MARCKSL1
GUCA2A	Guanylate Cyclase Activator 2A	Protein Coding	43	GC01M042162	1.200126886	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GUCA2A
SLC15A3	Solute Carrier Family 15 Member 3	Protein Coding	43	GC11M099519	1.196174622	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC15A3

METTL6	Methyltransferase 6, Methylcytidine	Protein Coding	40	GC03M021855	1.196174622	https://www.genecards.org/cgi-bin/carddisp.pl?gene=METTL6
STX4	Syntaxin 4	Protein Coding	48	GC16P042831	1.193569422	https://www.genecards.org/cgi-bin/carddisp.pl?gene=STX4
DNASE1	Deoxyribonuclease 1	Protein Coding	50	GC16P003611	1.188389778	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DNASE1
SIGMAR1	Sigma Non-Opioid Intracellular Receptor 1	Protein Coding	54	GC09M034634	1.185390472	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SIGMAR1
CDH3	Cadherin 3	Protein Coding	54	GC16P068637	1.185385942	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDH3
BAMBI	BMP And Activin Membrane Bound Inhibitor	Protein Coding	50	GC10P028685	1.185385942	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BAMBI
TLX1	T Cell Leukemia Homeobox 1	Protein Coding	46	GC10P101130	1.180054665	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TLX1
KIR2DL1	Killer Cell Immunoglobulin Like Receptor, Two Ig Domains And Long Cytoplasmic Tail 1	Protein Coding	42	GC19P073500	1.180054665	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KIR2DL1
FGR	FGR Proto-Oncogene, Src Family Tyrosine Kinase	Protein Coding	53	GC01M028092	1.177772641	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGR
ARHGEF1	Rho Guanine Nucleotide Exchange Factor 12	Protein Coding	49	GC11P120336	1.177476287	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARHGEF12
ERVK-6	Endogenous Retrovirus Group K Member 6, Envelope	Protein Coding	21	GC07U903184	1.177476287	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ERVK-6
CDY2A	Chromodomain Y-Linked 2A	Protein Coding	31	GC0YP018025	1.177319527	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDY2A
KAT8	Lysine Acetyltransferase 8	Protein Coding	51	GC16P042841	1.171679974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KAT8
UBFD1	Ubiquitin Family Domain Containing 1	Protein Coding	39	GC16P023557	1.170049906	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UBFD1
ETV4	ETS Variant Transcription Factor 4	Protein Coding	49	GC17M043527	1.163003087	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ETV4

GFRA2	GDNF Family Receptor Alpha 2	Protein Coding	51	GC08M021690	1.161565185	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GFRA2
CBFA2T2	CBFA2/RUNX1 Partner Transcriptional Co-Repressor 2	Protein Coding	43	GC20P033490	1.158389688	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CBFA2T2
LACRT	Lacritin	Protein Coding	38	GC12M055055	1.158389688	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LACRT
CRIPT	CXXC Repeat Containing Interactor Of PDZ3 Domain	Protein Coding	46	GC02P046616	1.155421019	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CRIPT
HDAC11	Histone Deacetylase 11	Protein Coding	51	GC03P013749	1.151618719	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HDAC11
S100A2	S100 Calcium Binding Protein A2	Protein Coding	47	GC01M153561	1.150105476	https://www.genecards.org/cgi-bin/carddisp.pl?gene=S100A2
CD96	CD96 Molecule	Protein Coding	51	GC03P111292	1.148190379	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD96
MMP20	Matrix Metalloproteinase 20	Protein Coding	51	GC11M102576	1.147861481	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMP20
STK10	Serine/Threonine Kinase 10	Protein Coding	50	GC05M172042	1.147695661	https://www.genecards.org/cgi-bin/carddisp.pl?gene=STK10
CCDC26	CCDC26 Long Non-Coding RNA	RNA Gene	31	GC08M132556	1.144457102	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCDC26
ITGA1	Integrin Subunit Alpha 1	Protein Coding	51	GC05P052788	1.142069697	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGA1
CLEC4D	C-Type Lectin Domain Family 4 Member D	Protein Coding	44	GC12P008509	1.141966224	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CLEC4D
PSPN	Persephin	Protein Coding	43	GC19M006375	1.141966224	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PSPN
QPCT	Glutaminyl-Peptide Cyclotransferase	Protein Coding	50	GC02P037344	1.141539812	https://www.genecards.org/cgi-bin/carddisp.pl?gene=QPCT
KCNK3	Potassium Two Pore Domain Channel Subfamily K Member 3	Protein Coding	57	GC02P026692	1.140071511	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNK3

KLRC1	Killer Cell Lectin Like Receptor C1	Protein Coding	48	GC12M022635	1.138934731	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KLRC1
SPINT1	Serine Peptidase Inhibitor, Kunitz Type 1	Protein Coding	48	GC15P040844	1.138934731	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SPINT1
SS18	SS18 Subunit Of BAF Chromatin Remodeling Complex	Protein Coding	46	GC18M026016	1.138934731	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SS18
TSPAN32	Tetraspanin 32	Protein Coding	42	GC11P002302	1.138934731	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TSPAN32
GRM4	Glutamate Metabotropic Receptor 4	Protein Coding	52	GC06M071850	1.136897206	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRM4
TNK2	Tyrosine Kinase Non Receptor 2	Protein Coding	54	GC03M195863	1.136035442	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNK2
NSUN5	NOP2/Sun RNA Methyltransferase 5	Protein Coding	45	GC07M073302	1.136035442	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NSUN5
AFAP1	Actin Filament Associated Protein 1	Protein Coding	45	GC04M007758	1.135466218	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AFAP1
ARHGEF1	Rho Guanine Nucleotide Exchange Factor 11	Protein Coding	48	GC01M156934	1.134341598	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARHGEF11
CTRL	Chymotrypsin Like	Protein Coding	47	GC16M067927	1.133171082	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTRL
MCF2	MCF.2 Cell Line Derived Transforming Sequence	Protein Coding	47	GC0XM139581	1.130852818	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MCF2
GLRA4	Glycine Receptor Alpha 4 (Pseudogene)	Pseudogene	32	GC0XM103707	1.126724005	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GLRA4
NCK1	NCK Adaptor Protein 1	Protein Coding	50	GC03P136862	1.126284242	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NCK1
FGF5	Fibroblast Growth Factor 5	Protein Coding	50	GC04P080266	1.118101239	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGF5
HDAC10	Histone Deacetylase 10	Protein Coding	51	GC22M050245	1.117851496	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HDAC10

VGLL3	Vestigial Like Family Member 3	Protein Coding	41	GC03M086876	1.116021156	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VGLL3
HCLS1	Hematopoietic Cell-Specific Lyn Substrate 1	Protein Coding	50	GC03M121631	1.114315152	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HCLS1
LY9	Lymphocyte Antigen 9	Protein Coding	47	GC01P160796	1.113487959	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LY9
MYO6	Myosin VI	Protein Coding	51	GC06P075749	1.11263597	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYO6
MMP16	Matrix Metalloproteinase 16	Protein Coding	52	GC08M088032	1.110368371	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMP16
CARD16	Caspase Recruitment Domain Family Member 16	Protein Coding	40	GC11M105041	1.109456182	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CARD16
IL12RB2	Interleukin 12 Receptor Subunit Beta 2	Protein Coding	51	GC01P067307	1.108985543	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL12RB2
EPHB1	EPH Receptor B1	Protein Coding	55	GC03P134795	1.108498573	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPHB1
EPHA8	EPH Receptor A8	Protein Coding	51	GC01P022563	1.108498573	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPHA8
PTPN7	Protein Tyrosine Phosphatase Non-Receptor Type 7	Protein Coding	51	GC01M202147	1.108498573	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPN7
ARC	Activity Regulated Cytoskeleton Associated Protein	Protein Coding	43	GC08M142611	1.108227015	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARC
AKAP12	A-Kinase Anchoring Protein 12	Protein Coding	48	GC06P151239	1.107064486	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AKAP12
TRPC1	Transient Receptor Potential Cation Channel Subfamily C Member 1	Protein Coding	48	GC03P142724	1.106306195	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRPC1
C19orf48	Chromosome 19 Putative Open Reading Frame 48	Pseudogene	36	GC19M050797	1.105926037	https://www.genecards.org/cgi-bin/carddisp.pl?gene=C19orf48
MUC2	Mucin 2, Oligomeric Mucus/Gel-Forming	Protein Coding	44	GC11P001074	1.104578614	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MUC2

KRT20	Keratin 20	Protein Coding	46	GC17M040875	1.095470786	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KRT20
KIR2DS4	Killer Cell Immunoglobulin Like Receptor, Two Ig Domains And Short Cytoplasmic Tail 4	Protein Coding	37	GC19P073504	1.095470786	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KIR2DS4
NAA30	N-Alpha-Acetyltransferase 30, NatC Catalytic Subunit	Protein Coding	44	GC14P057390	1.092493534	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NAA30
EPHB3	EPH Receptor B3	Protein Coding	53	GC03P184561	1.091133595	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPHB3
CDK20	Cyclin Dependent Kinase 20	Protein Coding	49	GC09M087966	1.091133595	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDK20
PTPRR	Protein Tyrosine Phosphatase Receptor Type R	Protein Coding	45	GC12M070638	1.091133595	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPRR
ZFP36L1	ZFP36 Ring Finger Protein Like 1	Protein Coding	47	GC14M068787	1.089681864	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZFP36L1
RAP1B	RAP1B, Member Of RAS Oncogene Family	Protein Coding	50	GC12P068610	1.089631319	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RAP1B
STMN2	Stathmin 2	Protein Coding	45	GC08P079610	1.086361289	https://www.genecards.org/cgi-bin/carddisp.pl?gene=STMN2
ADGRE5	Adhesion G Protein-Coupled Receptor E5	Protein Coding	51	GC19P014880	1.082407951	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADGRE5
GDF5	Growth Differentiation Factor 5	Protein Coding	52	GC20M035433	1.08078897	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GDF5
VAV3	Vav Guanine Nucleotide Exchange Factor 3	Protein Coding	50	GC01M107571	1.078908563	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VAV3
F2RL2	Coagulation Factor II Thrombin Receptor Like 2	Protein Coding	47	GC05M076615	1.078908563	https://www.genecards.org/cgi-bin/carddisp.pl?gene=F2RL2
ANGPTL1	Angiopoietin Like 1	Protein Coding	46	GC01M178849	1.078908563	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ANGPTL1
RGS16	Regulator Of G Protein Signaling 16	Protein Coding	46	GC01M182598	1.078908563	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RGS16

OAS3	2'-5'-Oligoadenylate Synthetase 3	Protein Coding	46	GC12P112938	1.077958465	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OAS3
NMT2	N-Myristoyltransferase 2	Protein Coding	45	GC10M015206	1.072276354	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NMT2
PTPRZ1	Protein Tyrosine Phosphatase Receptor Type Z1	Protein Coding	52	GC07P121873	1.068503141	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPRZ1
PTPN4	Protein Tyrosine Phosphatase Non-Receptor Type 4	Protein Coding	47	GC02P119759	1.068503141	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPN4
MT1E	Metallothionein 1E	Protein Coding	43	GC16P056625	1.067718744	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MT1E
F2RL3	F2R Like Thrombin Or Trypsin Receptor 3	Protein Coding	53	GC19P016888	1.067248344	https://www.genecards.org/cgi-bin/carddisp.pl?gene=F2RL3
WWC1	WW And C2 Domain Containing 1	Protein Coding	47	GC05P168291	1.058328509	https://www.genecards.org/cgi-bin/carddisp.pl?gene=WWC1
BTC	Betacellulin	Protein Coding	51	GC04M074744	1.054350853	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BTC
IRF9	Interferon Regulatory Factor 9	Protein Coding	51	GC14P024161	1.054350853	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IRF9
KRT15	Keratin 15	Protein Coding	44	GC17M041513	1.054350853	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KRT15
GTF3A	General Transcription Factor IIIA	Protein Coding	42	GC13P027429	1.052797198	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GTF3A
C1S	Complement C1s	Protein Coding	54	GC12P023568	1.051964879	https://www.genecards.org/cgi-bin/carddisp.pl?gene=C1S
UNC13C	Unc-13 Homolog C	Protein Coding	40	GC15P053838	1.048702359	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UNC13C
ITGB7	Integrin Subunit Beta 7	Protein Coding	52	GC12M053191	1.042477012	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGB7
CD177	CD177 Molecule	Protein Coding	46	GC19P043353	1.040836096	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD177

GSDMC	Gasdermin C	Protein Coding	40	GC08M129705	1.03986001	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GSDMC
HRG	Histidine Rich Glycoprotein	Protein Coding	52	GC03P186660	1.039795876	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HRG
EFNA5	Ephrin A5	Protein Coding	51	GC05M107376	1.039711475	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EFNA5
RASGRF1	Ras Protein Specific Guanine Nucleotide Releasing Factor 1	Protein Coding	50	GC15M078959	1.039711475	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RASGRF1
VAV2	Vav Guanine Nucleotide Exchange Factor 2	Protein Coding	49	GC09M133761	1.039711475	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VAV2
DSG3	Desmoglein 3	Protein Coding	48	GC18P031447	1.039711475	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DSG3
NCK2	NCK Adaptor Protein 2	Protein Coding	48	GC02P105744	1.039711475	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NCK2
SLAMF6	SLAM Family Member 6	Protein Coding	47	GC01M160454	1.039711475	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLAMF6
GEM	GTP Binding Protein Overexpressed In Skeletal Muscle	Protein Coding	46	GC08M094249	1.039711475	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GEM
RHBDF1	Rhomoid 5 Homolog 1	Protein Coding	45	GC16M000058	1.039711475	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RHBDF1
SIGLEC12	Sialic Acid Binding Ig Like Lectin 12	Protein Coding	45	GC19M051491	1.039711475	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SIGLEC12
ERRFI1	ERBB Receptor Feedback Inhibitor 1	Protein Coding	43	GC01M008004	1.039711475	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ERRFI1
GRM8	Glutamate Metabotropic Receptor 8	Protein Coding	53	GC07M126438	1.037789106	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRM8
IL17RD	Interleukin 17 Receptor D	Protein Coding	52	GC03M057089	1.029799223	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL17RD
LOC111674472	DNase I Hypersensitive Sites In Introns 16 And 17a Of CFTR	Functional Element	4	GC07P117607	1.027813554	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LOC111674472

NRCAM	Neuronal Cell Adhesion Molecule	Protein Coding	51	GC07M108147	1.022346497	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NRCAM
CD300A	CD300a Molecule	Protein Coding	47	GC17P074466	1.022346497	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD300A
HTN3	Histatin 3	Protein Coding	38	GC04P070028	1.022087574	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HTN3
GJA4	Gap Junction Protein Alpha 4	Protein Coding	50	GC01P034792	1.019160032	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GJA4
EPHA5	EPH Receptor A5	Protein Coding	53	GC04M065319	1.013868332	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPHA5
CDKL1	Cyclin Dependent Kinase Like 1	Protein Coding	46	GC14M050330	1.013868332	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDKL1
SEMA3B	Semaphorin 3B	Protein Coding	47	GC03P050267	1.013504267	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SEMA3B
METTL2B	Methyltransferase 2B, Methylcytidine	Protein Coding	40	GC07P132479	1.013077974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=METTL2B
PAG1	Phosphoprotein Membrane Anchor With Glycosphingolipid Microdomains 1	Protein Coding	46	GC08M080967	1.012400031	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PAG1
INA	Internexin Neuronal Intermediate Filament Protein Alpha	Protein Coding	45	GC10P103277	1.011909842	https://www.genecards.org/cgi-bin/carddisp.pl?gene=INA
SLC17A6	Solute Carrier Family 17 Member 6	Protein Coding	47	GC11P022359	1.005619407	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC17A6
NPTX1	Neuronal Pentraxin 1	Protein Coding	47	GC17M080466	1.002447128	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPTX1
IL5RA	Interleukin 5 Receptor Subunit Alpha	Protein Coding	53	GC03M003066	1.001373172	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL5RA
LGR6	Leucine Rich Repeat Containing G Protein-Coupled Receptor 6	Protein Coding	48	GC01P202193	1.000739813	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LGR6
SNX1	Sorting Nexin 1	Protein Coding	46	GC15P064094	1.000739813	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SNX1

KIR2DL3	Killer Cell Immunoglobulin Like Receptor, Two Ig Domains And Long Cytoplasmic Tail 3	Protein Coding	43	GC19P074381	1.000186682	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KIR2DL3
KLRB1	Killer Cell Lectin Like Receptor B1	Protein Coding	47	GC12M022622	0.999716043	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KLRB1
PITX3	Paired Like Homeodomain 3	Protein Coding	46	GC10M102230	0.999716043	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PITX3
GPR182	G Protein-Coupled Receptor 182	Protein Coding	44	GC12P056994	0.999716043	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GPR182
CHRNE	Cholinergic Receptor Nicotinic Epsilon Subunit	Protein Coding	51	GC17M004897	0.999406278	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHRNE
TUB	TUB Bipartite Transcription Factor	Protein Coding	50	GC11P008040	0.994702637	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TUB
EPS8	Epidermal Growth Factor Receptor Pathway Substrate 8	Protein Coding	52	GC12M022709	0.987842262	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPS8
UBASH3B	Ubiquitin Associated And SH3 Domain Containing B	Protein Coding	48	GC11P122655	0.987842262	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UBASH3B
ASAP1	ArfGAP With SH3 Domain, Ankyrin Repeat And PH Domain 1	Protein Coding	47	GC08M130052	0.987842262	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ASAP1
SKAP2	Src Kinase Associated Phosphoprotein 2	Protein Coding	46	GC07M026654	0.987842262	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SKAP2
KCNA2	Potassium Voltage-Gated Channel Subfamily A Member 2	Protein Coding	53	GC01M110519	0.985289454	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNA2
IGF2BP2-AS1	IGF2BP2 Antisense RNA 1	RNA Gene	26	GC03P185620	0.982193828	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IGF2BP2-AS1
SKAP1	Src Kinase Associated Phosphoprotein 1	Protein Coding	45	GC17M048133	0.980487883	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SKAP1
NAA60	N-Alpha-Acetyltransferase 60, NatF Catalytic Subunit	Protein Coding	43	GC16P003443	0.97929728	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NAA60
PURA	Purine Rich Element Binding Protein A	Protein Coding	51	GC05P140076	0.976546884	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PURA

MEOX2	Mesenchyme Homeobox 2	Protein Coding	46	GC07M015617	0.976295114	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MEOX2
OXER1	Oxoecosanoid Receptor 1	Protein Coding	45	GC02M042762	0.973202944	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OXER1
GRIN3B	Glutamate Ionotropic Receptor NMDA Type Subunit 3B	Protein Coding	49	GC19P001000	0.957497299	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRIN3B
RIN1	Ras And Rab Interactor 1	Protein Coding	44	GC11M099757	0.955837965	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RIN1
TOM1L1	Target Of Myb1 Like 1 Membrane Trafficking Protein	Protein Coding	42	GC17P062999	0.955837965	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TOM1L1
SH3BGRL	SH3 Domain Binding Glutamate Rich Protein Like 2	Protein Coding	40	GC06P092694	0.955837965	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SH3BGRL2
FZD9	Frizzled Class Receptor 9	Protein Coding	51	GC07P073433	0.95253402	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FZD9
CADM2	Cell Adhesion Molecule 2	Protein Coding	47	GC03P084961	0.952244639	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CADM2
NUDT6	Nudix Hydrolase 6	Protein Coding	43	GC04M122888	0.950953603	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NUDT6
ZDHHC3	Zinc Finger DHHC-Type Palmitoyltransferase 3	Protein Coding	43	GC03M044915	0.950109363	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZDHHC3
PCDH15	Protocadherin Related 15	Protein Coding	48	GC10M053802	0.946790814	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PCDH15
HGFAC	HGF Activator	Protein Coding	48	GC04P003443	0.945081234	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HGFAC
PLXNC1	Plexin C1	Protein Coding	47	GC12P094150	0.945081234	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLXNC1
SLA2	Src Like Adaptor 2	Protein Coding	46	GC20M036613	0.945081234	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLA2
LILRB4	Leukocyte Immunoglobulin Like Receptor B4	Protein Coding	44	GC19P054643	0.945081234	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LILRB4

RASA3	RAS P21 Protein Activator 3	Protein Coding	44	GC13M113977	0.945081234	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RASA3
FCGR2C	Fc Gamma Receptor IIc (Gene/Pseudogene)	Protein Coding	40	GC01P161818	0.945081234	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FCGR2C
SPAG4	Sperm Associated Antigen 4	Protein Coding	40	GC20P035615	0.945081234	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SPAG4
GYPE	Glycophorin E (MNS Blood Group)	Protein Coding	35	GC04M143870	0.941309452	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GYPE
GFRA3	GDNF Family Receptor Alpha 3	Protein Coding	50	GC05M138263	0.933207512	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GFRA3
GRAP2	GRB2 Related Adaptor Protein 2	Protein Coding	50	GC22P045214	0.933207512	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRAP2
STON2	Stonin 2	Protein Coding	41	GC14M081260	0.933207512	https://www.genecards.org/cgi-bin/carddisp.pl?gene=STON2
GNRH2	Gonadotropin Releasing Hormone 2	Protein Coding	40	GC20P003043	0.933207512	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GNRH2
MSLN	Mesothelin	Protein Coding	50	GC16P013455	0.93258357	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MSLN
ECE2	Endothelin Converting Enzyme 2	Protein Coding	46	GC03P184276	0.928997397	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ECE2
S100G	S100 Calcium Binding Protein G	Protein Coding	42	GC0XP016668	0.925257087	https://www.genecards.org/cgi-bin/carddisp.pl?gene=S100G
COL17A1	Collagen Type XVII Alpha 1 Chain	Protein Coding	51	GC10M104031	0.92325455	https://www.genecards.org/cgi-bin/carddisp.pl?gene=COL17A1
LNX1	Ligand Of Numb-Protein X 1	Protein Coding	48	GC04M053459	0.92325455	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LNX1
GPR17	G Protein-Coupled Receptor 17	Protein Coding	48	GC02P127645	0.922787964	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GPR17
UBE2NL	Ubiquitin Conjugating Enzyme E2 N Like (Gene/Pseudogene)	Protein Coding	31	GC0XP143884	0.920240343	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UBE2NL

AKAP5	A-Kinase Anchoring Protein 5	Protein Coding	47	GC14P064465	0.917392969	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AKAP5
DAB1	DAB Adaptor Protein 1	Protein Coding	50	GC01M056994	0.912124336	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DAB1
AFDN	Afadin, Adherens Junction Formation Factor	Protein Coding	48	GC06P167827	0.912124336	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AFDN
SLC9A6	Solute Carrier Family 9 Member A6	Protein Coding	53	GC0XP135985	0.905902743	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC9A6
ZDHHC7	Zinc Finger DHHC-Type Palmitoyltransferase 7	Protein Coding	43	GC16M084975	0.905520856	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZDHHC7
ZDHHC4	Zinc Finger DHHC-Type Palmitoyltransferase 4	Protein Coding	40	GC07P006577	0.905520856	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZDHHC4
JMJD6	Jumonji Domain Containing 6, Arginine Demethylase And Lysine Hydroxylase	Protein Coding	49	GC17M076718	0.904907465	https://www.genecards.org/cgi-bin/carddisp.pl?gene=JMJD6
METAP2	Methionyl Aminopeptidase 2	Protein Coding	52	GC12P095473	0.903258324	https://www.genecards.org/cgi-bin/carddisp.pl?gene=METAP2
ABT1	Activator Of Basal Transcription 1	Protein Coding	41	GC06P091965	0.903258324	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABT1
EDN2	Endothelin 2	Protein Coding	47	GC01M041478	0.900304377	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EDN2
ZC2HC1A	Zinc Finger C2HC-Type Containing 1A	Protein Coding	38	GC08P078666	0.89760989	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZC2HC1A
RAB39B	RAB39B, Member RAS Oncogene Family	Protein Coding	44	GC0XM155259	0.896075845	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RAB39B
SLC24A3	Solute Carrier Family 24 Member 3	Protein Coding	46	GC20P019212	0.889909029	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC24A3
DRAM1	DNA Damage Regulated Autophagy Modulator 1	Protein Coding	37	GC12P101877	0.887507498	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DRAM1
LOC108663987	Ataxin 3 Repeat Instability Region	Functional Element	4	GC14P092071	0.887507498	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LOC108663987

ERBIN	ErbB2 Interacting Protein	Protein Coding	46	GC05P065884	0.88390404	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ERBIN
TRPC4	Transient Receptor Potential Cation Channel Subfamily C Member 4	Protein Coding	50	GC13M037638	0.878572762	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRPC4
ARTN	Artemin	Protein Coding	47	GC01P043933	0.878572762	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARTN
LILRA4	Leukocyte Immunoglobulin Like Receptor A4	Protein Coding	46	GC19M054333	0.878572762	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LILRA4
MUC3B	Mucin 3B, Cell Surface Associated	Protein Coding	22	GC07U903146	0.878572762	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MUC3B
ATP6V1D	ATPase H ⁺ Transporting V1 Subunit D	Protein Coding	47	GC14M067294	0.878209412	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATP6V1D
MMP25	Matrix Metalloproteinase 25	Protein Coding	47	GC16P013548	0.873746693	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMP25
NTN1	Netrin 1	Protein Coding	52	GC17P011813	0.873181343	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NTN1
ZMYM2	Zinc Finger MYM-Type Containing 2	Protein Coding	48	GC13P020139	0.873181343	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZMYM2
P2RX1	Purinergic Receptor P2X 1	Protein Coding	50	GC17M003896	0.867829382	https://www.genecards.org/cgi-bin/carddisp.pl?gene=P2RX1
CNTN2	Contactin 2	Protein Coding	52	GC01P205043	0.861521125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CNTN2
LILRB1	Leukocyte Immunoglobulin Like Receptor B1	Protein Coding	50	GC19P073495	0.861521125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LILRB1
PAEP	Progesterone Associated Endometrial Protein	Protein Coding	47	GC09P135561	0.861521125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PAEP
TOB1	Transducer Of ERBB2, 1	Protein Coding	47	GC17M050862	0.861521125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TOB1
SLC17A7	Solute Carrier Family 17 Member 7	Protein Coding	47	GC19M049429	0.850808859	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC17A7

	RXFP1	Relaxin Family Peptide Receptor 1	Protein Coding	51	GC04P158315	0.848623574	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RXFP1
5	ARHGAP3	Rho GTPase Activating Protein 35	Protein Coding	46	GC19P046860	0.848623574	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARHGAP35
	SHC3	SHC Adaptor Protein 3	Protein Coding	46	GC09M089005	0.848623574	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SHC3
	SWAP70	Switching B Cell Complex Subunit SWAP70	Protein Coding	46	GC11P009664	0.848623574	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SWAP70
	SH2D2A	SH2 Domain Containing 2A	Protein Coding	45	GC01M156952	0.848623574	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SH2D2A
	SH3BP5	SH3 Domain Binding Protein 5	Protein Coding	44	GC03M021849	0.848623574	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SH3BP5
	TCEAL1	Transcription Elongation Factor A Like 1	Protein Coding	42	GC0XP103628	0.848623574	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TCEAL1
	ETV7	ETS Variant Transcription Factor 7	Protein Coding	40	GC06M071871	0.848623574	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ETV7
7	LOC34496	Acyl-CoA Thioesterase 7 Pseudogene	Pseudogene	15	GC04M040045	0.848313689	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LOC344967
	KIF5C	Kinesin Family Member 5C	Protein Coding	48	GC02P148875	0.842474699	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KIF5C
	ANGPT4	Angiopoietin 4	Protein Coding	49	GC20M000869	0.833984256	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ANGPT4
	DOK2	Docking Protein 2	Protein Coding	49	GC08M021908	0.833984256	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DOK2
	CD48	CD48 Molecule	Protein Coding	47	GC01M160648	0.833984256	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD48
	FCAR	Fc Alpha Receptor	Protein Coding	47	GC19P073506	0.833984256	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FCAR
	ADRA1D	Adrenoceptor Alpha 1D	Protein Coding	51	GC20M004220	0.828397751	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADRA1D

CHRNA4	Cholinergic Receptor Nicotinic Beta 4 Subunit	Protein Coding	51	GC15M078624	0.817885756	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHRNA4	
SLAMF1	Signaling Lymphocytic Activation Molecule Family Member 1	Protein Coding	49	GC01M160608	0.816619277	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLAMF1	
EFNB3	Ephrin B3	Protein Coding	48	GC17P011746	0.816619277	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EFNB3	
GRAP	GRB2 Related Adaptor Protein	Protein Coding	48	GC17M050970	0.816619277	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRAP	
2	ARHGAP3	Rho GTPase Activating Protein 32	Protein Coding	46	GC11M128965	0.816619277	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARHGAP32
	SH2D1B	SH2 Domain Containing 1B	Protein Coding	44	GC01M162395	0.816619277	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SH2D1B
	ERVW-1	Endogenous Retrovirus Group W Member 1, Envelope	Protein Coding	42	GC07M092468	0.816619277	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ERVW-1
	INSL4	Insulin Like 4	Protein Coding	39	GC09P005231	0.816619277	https://www.genecards.org/cgi-bin/carddisp.pl?gene=INSL4
	ZDHHC9	Zinc Finger DHHC-Type Palmitoyltransferase 9	Protein Coding	50	GC0XM129803	0.810890675	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZDHHC9
	ZDHHC11	Zinc Finger DHHC-Type Containing 11	Protein Coding	41	GC05M000795	0.810890675	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZDHHC11
B	ZDHHC11	Zinc Finger DHHC-Type Containing 11B	Protein Coding	32	GC05M000710	0.810890675	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZDHHC11B
	INTS2	Integrator Complex Subunit 2	Protein Coding	40	GC17M061865	0.804532051	https://www.genecards.org/cgi-bin/carddisp.pl?gene=INTS2
	DPYSL3	Dihydropyrimidinase Like 3	Protein Coding	46	GC05M147390	0.798763692	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DPYSL3
	GZMA	Granzyme A	Protein Coding	50	GC05P055102	0.793988824	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GZMA
	RPH3A	Rabphilin 3A	Protein Coding	46	GC12P112570	0.793988824	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPH3A

SEZ6L2	Seizure Related 6 Homolog Like 2	Protein Coding	46	GC16M038421	0.793988824	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SEZ6L2
CNKSR1	Connector Enhancer Of Kinase Suppressor Of Ras 1	Protein Coding	44	GC01P026178	0.793988824	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CNKSR1
FRS3	Fibroblast Growth Factor Receptor Substrate 3	Protein Coding	40	GC06M071935	0.793988824	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FRS3
PTPRCAP	Protein Tyrosine Phosphatase Receptor Type C Associated Protein	Protein Coding	40	GC11M099809	0.793988824	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPRCAP
OCM2	Oncomodulin 2	Protein Coding	33	GC07M097984	0.793988824	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OCM2
AAVS1	Adeno-Associated Virus Integration Site 1	Genetic Locus	6	GC19U990001	0.793988824	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AAVS1
NM	Neutrophil Migration	Genetic Locus	6	GC07U990060	0.793988824	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NM
ZFP36L2	ZFP36 Ring Finger Protein Like 2	Protein Coding	44	GC02M043184	0.773427129	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZFP36L2
SLC1A6	Solute Carrier Family 1 Member 6	Protein Coding	51	GC19M014921	0.773018479	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC1A6
LDC1P	Leucine Decarboxylase 1, Pseudogene	Pseudogene	13	GC01P031501	0.771194696	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LDC1P
PDCD1LG	Programmed Cell Death 1 Ligand 2	Protein Coding	50	GC09P005510	0.767283797	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDCD1LG2
IL1RL1	Interleukin 1 Receptor Like 1	Protein Coding	48	GC02P102294	0.767182589	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL1RL1
C1R	Complement C1r	Protein Coding	53	GC12M007993	0.765953422	https://www.genecards.org/cgi-bin/carddisp.pl?gene=C1R
PGGT1B	Protein Geranylgeranyltransferase Type I Subunit Beta	Protein Coding	42	GC05M115200	0.741063714	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PGGT1B
TAPBP	TAP Binding Protein	Protein Coding	51	GC06M033299	0.738563597	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TAPBP

HEBP1	Heme Binding Protein 1	Protein Coding	40	GC12M012974	0.737105608	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HEBP1
GRIK5	Glutamate Ionotropic Receptor Kainate Type Subunit 5	Protein Coding	52	GC19M041998	0.736668408	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRIK5
POLH	DNA Polymerase Eta	Protein Coding	55	GC06P043576	0.727330506	https://www.genecards.org/cgi-bin/carddisp.pl?gene=POLH
GTF3C4	General Transcription Factor IIIC Subunit 4	Protein Coding	44	GC09P132671	0.727330506	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GTF3C4
SHANK3	SH3 And Multiple Ankyrin Repeat Domains 3	Protein Coding	45	GC22P050674	0.725786924	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SHANK3
H3-4	H3.4 Histone, Cluster Member	Protein Coding	44	GC01M228427	0.722606659	https://www.genecards.org/cgi-bin/carddisp.pl?gene=H3-4
ZDHHC24	Zinc Finger DHHC-Type Containing 24	Protein Coding	40	GC11M099766	0.714433014	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZDHHC24
PADI4	Peptidyl Arginine Deiminase 4	Protein Coding	51	GC01P017308	0.704137444	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PADI4
NAA20	N-Alpha-Acetyltransferase 20, NatB Catalytic Subunit	Protein Coding	47	GC20P020018	0.699793696	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NAA20
ZDHHC8	Zinc Finger DHHC-Type Palmitoyltransferase 8	Protein Coding	46	GC22P020129	0.699793696	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZDHHC8
MPDZ	Multiple PDZ Domain Crumbs Cell Polarity Complex Component	Protein Coding	50	GC09M013105	0.69947648	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MPDZ
PTMA	Prothymosin Alpha	Protein Coding	48	GC02P231838	0.692750692	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTMA
ZDHHC6	Zinc Finger DHHC-Type Palmitoyltransferase 6	Protein Coding	43	GC10M112430	0.682428718	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZDHHC6
JUND	JunD Proto-Oncogene, AP-1 Transcription Factor Subunit	Protein Coding	48	GC19M018279	0.682285666	https://www.genecards.org/cgi-bin/carddisp.pl?gene=JUND
GRIK3	Glutamate Ionotropic Receptor Kainate Type Subunit 3	Protein Coding	51	GC01M036795	0.680615485	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRIK3

HSPE1	Heat Shock Protein Family E (Hsp10) Member 1	Protein Coding	49	GC02P197501	0.67894119	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSPE1
PDS5B	PDS5 Cohesin Associated Factor B	Protein Coding	44	GC13P032586	0.66158253	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDS5B
ZDHHC14	Zinc Finger DHHC-Type Palmitoyltransferase 14	Protein Coding	43	GC06P157381	0.659798265	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZDHHC14
ZDHHC12	Zinc Finger DHHC-Type Palmitoyltransferase 12	Protein Coding	36	GC09M128720	0.659798265	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZDHHC12
RLN2	Relaxin 2	Protein Coding	42	GC09M005438	0.655414581	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RLN2
OMP	Olfactory Marker Protein	Protein Coding	42	GC11P077102	0.645645916	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OMP
NPTX2	Neuronal Pentraxin 2	Protein Coding	49	GC07P098620	0.642618299	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPTX2
PPP1R9B	Protein Phosphatase 1 Regulatory Subunit 9B	Protein Coding	47	GC17M050133	0.628742099	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PPP1R9B
TNXA	Tenascin XA (Pseudogene)	Pseudogene	27	GC06M071744	0.625919342	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNXA
MYO7A	Myosin VIIA	Protein Coding	50	GC11P077128	0.625438094	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYO7A
ACKR2	Atypical Chemokine Receptor 2	Protein Coding	47	GC03P042804	0.619987786	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACKR2
SLC4A10	Solute Carrier Family 4 Member 10	Protein Coding	47	GC02P161425	0.609507203	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC4A10
ZDHHC15	Zinc Finger DHHC-Type Palmitoyltransferase 15	Protein Coding	44	GC0XM075368	0.605163455	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZDHHC15
ZDHHC19	Zinc Finger DHHC-Type Palmitoyltransferase 19	Protein Coding	43	GC03M196197	0.605163455	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZDHHC19
ZDHHC16	Zinc Finger DHHC-Type Palmitoyltransferase 16	Protein Coding	40	GC10P097446	0.605163455	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZDHHC16

ZDHHC23	Zinc Finger DHHC-Type Palmitoyltransferase 23	Protein Coding	40	GC03P113947	0.605163455	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZDHHC23
NAA11	N-Alpha-Acetyltransferase 11, NatA Catalytic Subunit	Protein Coding	38	GC04M079155	0.605163455	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NAA11
ZDHHC22	Zinc Finger DHHC-Type Palmitoyltransferase 22	Protein Coding	35	GC14M077159	0.605163455	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZDHHC22
GRIK4	Glutamate Ionotropic Receptor Kainate Type Subunit 4	Protein Coding	52	GC11P120512	0.604043722	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRIK4
GJB6	Gap Junction Protein Beta 6	Protein Coding	49	GC13M020221	0.599481165	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GJB6
AGAP2	ArfGAP With GTPase Domain, Ankyrin Repeat And PH Domain 2	Protein Coding	47	GC12M057723	0.596378684	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AGAP2
CACNG3	Calcium Voltage-Gated Channel Auxiliary Subunit Gamma 3	Protein Coding	48	GC16P024615	0.595825553	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CACNG3
DCAF4	DDB1 And CUL4 Associated Factor 4	Protein Coding	38	GC14P072926	0.595719576	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DCAF4
TACR2	Tachykinin Receptor 2	Protein Coding	50	GC10M069403	0.584081471	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TACR2
TRAK1	Trafficking Kinesin Protein 1	Protein Coding	48	GC03P042020	0.580011547	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRAK1
CCR10	C-C Motif Chemokine Receptor 10	Protein Coding	42	GC17M042678	0.534312725	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCR10
TMC2	Transmembrane Channel Like 2	Protein Coding	42	GC20P002536	0.529317021	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TMC2
TRPM1	Transient Receptor Potential Cation Channel Subfamily M Member 1	Protein Coding	51	GC15M031001	0.490211636	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRPM1
RSL24D1	Ribosomal L24 Domain Containing 1	Protein Coding	43	GC15M055180	0.482226133	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RSL24D1
TMEM37	Transmembrane Protein 37	Protein Coding	38	GC02P119429	0.465801805	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TMEM37

DEFA1	Defensin Alpha 1	Protein Coding	44	GC08M006977	0.45585534	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DEFA1
KEL	Kell Metallo-Endopeptidase (Kell Blood Group)	Protein Coding	48	GC07M143027	0.439531475	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KEL
GRINA	Glutamate Ionotropic Receptor NMDA Type Subunit Associated Protein 1	Protein Coding	40	GC08P143990	0.43129757	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRINA
C4BPA	Complement Component 4 Binding Protein Alpha	Protein Coding	49	GC01P207105	0.429623127	https://www.genecards.org/cgi-bin/carddisp.pl?gene=C4BPA
RCOR1	REST Corepressor 1	Protein Coding	49	GC14P102592	0.429034412	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RCOR1
TMC1	Transmembrane Channel Like 1	Protein Coding	46	GC09P072521	0.390098333	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TMC1
CRYBA1	Crystallin Beta A1	Protein Coding	46	GC17P029246	0.389627695	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CRYBA1
TAAR6	Trace Amine Associated Receptor 6	Protein Coding	40	GC06P132570	0.389627695	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TAAR6
ZNF521	Zinc Finger Protein 521	Protein Coding	43	GC18M025061	0.345749646	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZNF521
CACNG1	Calcium Voltage-Gated Channel Auxiliary Subunit Gamma 1	Protein Coding	48	GC17P067044	0.342445672	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CACNG1
P2RY4	Pyrimidinergic Receptor P2Y4	Protein Coding	46	GC0XM070258	0.340865254	https://www.genecards.org/cgi-bin/carddisp.pl?gene=P2RY4
USH1C	USH1 Protein Network Component Harmonin	Protein Coding	50	GC11M017665	0.334992945	https://www.genecards.org/cgi-bin/carddisp.pl?gene=USH1C
P2RY6	Pyrimidinergic Receptor P2Y6	Protein Coding	48	GC11P073264	0.310468733	https://www.genecards.org/cgi-bin/carddisp.pl?gene=P2RY6
TRAK2	Trafficking Kinesin Protein 2	Protein Coding	47	GC02M201377	0.304976404	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRAK2
MRGPRD	MAS Related GPR Family Member D	Protein Coding	43	GC11M068980	0.288439035	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MRGPRD

HBB-LCR	Beta-Globin Locus Control Region	Functional Element	7	GC11P005434	0.260074615	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HBB-LCR
GRIPAP1	GRIP1 Associated Protein 1	Protein Coding	41	GC0XM048973	0.23853527	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRIPAP1
CACNG8	Calcium Voltage-Gated Channel Auxiliary Subunit Gamma 8	Protein Coding	43	GC19P073470	0.237444133	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CACNG8
CACNG4	Calcium Voltage-Gated Channel Auxiliary Subunit Gamma 4	Protein Coding	48	GC17P066964	0.223895937	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CACNG4
OR51E1	Olfactory Receptor Family 51 Subfamily E Member 1	Protein Coding	40	GC11P004643	0.206530973	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OR51E1
PCDHGC3	Protocadherin Gamma Subfamily C, 3	Protein Coding	45	GC05P141475	0.183900505	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PCDHGC3
CST2	Cystatin SA	Protein Coding	39	GC20M023805	0.183900505	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CST2

Supplementary Table 2 Patient informations in the verification study part

Pathology number	Gender	Age	Hospital number	Pathological diagnosis
100175	M	44	15110190	(Hepatic) Hepatocellular Carcinoma. Immunomarkers: Hepa+, Glypican+, AFP+, CD34 sinusoidal vessels+, CK19-, Ki67+ 10%.
100183	M	69	15104457	(Left Liver) Clusters of epithelioid cells are observed in the coagulation tissue, with abundant sinusoids in between. Immunomarkers: Glypican weakly positive, CD34 sinusoidal vessels positive, Hepa negative, CK negative, Vimentin negative, CK19 negative, AFP negative, Ki67 positive 5%. Considering the combined immunomarker results, the diagnosis is suggestive of hepatocellular carcinoma with extensive intrastromal hemorrhage.
100310	M	45	15110944	(Hepatic) Hepatocellular Carcinoma. Immunomarkers: AFP positive, Glypican-3 positive, Hepa negative, CK19 negative, CD34 vessels positive, Ki-67 positive 20%.
100953	M	58	15114170	(Hepatic) Hepatocellular Carcinoma. Immunomarkers: Hepa positive, AFP positive, Glypican-3 positive, CD34 sinusoidal vessels positive, CK19 negative, Ki-67 positive 40%.
101268	F	67	15121477	Well-differentiated Hepatocellular Carcinoma with necrosis identified within the liver. The tumor measures 12x9x7cm in size. The carcinoma displays infiltrative growth pattern, involving the surrounding hepatic tissue, but without breaching the capsule. Intravascular tumor emboli are evident, while the margins show no evidence of malignancy.
101277	M	64	15121550	(Hepatic) Hepatocellular Carcinoma.

				Immunomarkers: HEP positive, Galectin-3 positive, AFP positive, CD34 vessels positive, CK19 negative, Ki67 positive 40%.
101807	M	70	15124649	<p>(Left Lobe) Adjacent to the capsule, well-differentiated hepatocellular carcinoma with localized necrosis is observed, measuring 13x5x4cm. The carcinoma displays infiltrative growth, penetrating the capsule and extending into the surrounding adipose fibrous tissue. Peripheral portions of the liver show sinusoidal dilation and congestion, resembling nodular cirrhotic changes.</p> <p>Immunohistochemistry: Hepatocyte positive, CD34 sinusoids positive, Glypican-3 positive, CK19 negative, AFP negative, Ki-67 positive with focal areas showing 30% staining.</p>
102058	F	52	16010728	<p>1. Gallbladder Specimen: Chronic cholecystitis with partial glandular invagination.</p> <p>2. Partial Liver Specimen: Moderately differentiated hepatocellular carcinoma, measuring 1.8x1.7x0.5cm.</p> <p>Immunomarkers: HepPar-1 positive, Glypican-3 positive, AFP negative, CD34 sinusoidal vessels positive, CK19 negative, Ki67 positive 30%.</p>
102222	M	69	16011086	<p>(Right Lobe of Liver) Moderately differentiated hepatocellular carcinoma, measuring 4.0x3.5x3.2cm. The carcinoma exhibits infiltrative growth, invading the liver capsule and focal penetration of the capsule. There is no evidence of malignancy at the liver margins. The surrounding liver tissue shows nodular cirrhotic changes.</p> <p>Immunomarkers: Hepatocyte positive, Glypican-3 positive, CD34 sinusoidal vessels positive, CK19 negative, Ki-67 positive 10%.</p>

103702	F	65	16030849	(Hepatic) Infiltration of carcinoma is observed within the liver tissue. Considering the immunomarker results: Focal Hep positive, AFP positive, Glypican-3 positive, CK19 positive, focal CK7 positive, CD34 stromal vessels positive, Ki67 positive 50%. Diagnosis: Hepatocellular Carcinoma.
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Supplement Tab 3 132 propionate metabolism-related genes

PCCA

CYP3A4

CYP2C19

MMAA

ACADM

OTC

CYP2C9

LDLR

ALB

CYP2C8

CYP1A2

IL6

LIPC

LPL

APOB

UGT1A1

CYP1A1

GCDH

CYP2B6

IGF1

CYP2A6

CBS

HMGCL

CYP2E1

PAH

CPT2

ETFDH

ACADS

PC

CRP

GGT1

APOA1

BCKDHB

CES1

UGT1A6

ASS1

IVD

HIBCH

CETP

CPS1

GPT

GLDC

IL1B

HSD11B1

ENPP1

CYP27B1

XDH

CA5A

MAT1A

LEPR

ABCA1

UGT1A9

FGF23

CYP17A1

APOC3

DPYD

ADRB2

ALDH2

NR3C2

SLCO1B1

IL10

CASR

SHBG

CYP19A1

HPD

VKORC1

FBP1

ALDH5A1

FTCD

ESR1

PTGS2

PON1

FAH

CP

COMT

G6PD

DDC

APOA5

UGT1A3

MLYCD

UGT1A10

NAT2

PLA2G4A

NR1H2

QDPR

ALDH6A1

F2

HBB

CCL2

SERPINE1

ALDOB

PNP

ALPL

GATM

BCHE

MPO

ARG1

SLC4A1

FABP4

CAT

NQO1

SULT1A1

TF

CYP3A7
ACAT1
CTH
AR
GCSH
TAT
EHHADH
CFTR
UPB1
PTGS1
RBP4
HMOX1
ABCG2
UGT2B7
CYP27A1
SLC25A20
UGT1A4
KYNU
SRD5A2
PCK2
HMGCS2
FFAR2
EPHX2
GOT2
KCNJ11
NR1H3

IGFBP3

SERPINA1

TTR

Supplementary Table 4 The KEGG pathways enriched in the high-risk group

D	Description	setSize
KEGG_COMPLEMENT_AND_COAGULATION_CASCADES	KEGG_COMPLEMENT_AND_COAGULATION_CASCADES	68
KEGG_RETINOL_METABOLISM	KEGG_RETINOL_METABOLISM	62
KEGG_DRUG_METABOLISM_CYTOCHROME_P450	KEGG_DRUG_METABOLISM_CYTOCHROME_P450	71
KEGG_FATTY_ACID_METABOLISM	KEGG_FATTY_ACID_METABOLISM	40
KEGG_PEROXISOME	KEGG_PEROXISOME	77
KEGG_METABOLISM_OF_XENOBIOTICS_BY_CYTOCHROME_P450	KEGG_METABOLISM_OF_XENOBIOTICS_BY_CYTOCHROME_P450	69
KEGG_GLYCINE_SERINE_AND_THREONINE_METABOLISM	KEGG_GLYCINE_SERINE_AND_THREONINE_METABOLISM	31
KEGG_TRYPTOPHAN_METABOLISM	KEGG_TRYPTOPHAN_METABOLISM	38
KEGG_PPAR_SIGNALING_PATHWAY	KEGG_PPAR_SIGNALING_PATHWAY	69
KEGG_VALINE_LEUCINE_AND_ISOLEUCINE_DEGRADATION	KEGG_VALINE_LEUCINE_AND_ISOLEUCINE_DEGRADATION	43
KEGG_STEROID_HORMONE_BIOSYNTHESIS	KEGG_STEROID_HORMONE_BIOSYNTHESIS	54
KEGG_PROPANOATE_METABOLISM	KEGG_PROPANOATE_METABOLISM	31
KEGG_DRUG_METABOLISM_OTHER_ENZYMES	KEGG_DRUG_METABOLISM_OTHER_ENZYMES	49
KEGG_PRIMARY_BILE_ACID_BIOSYNTHESIS	KEGG_PRIMARY_BILE_ACID_BIOSYNTHESIS	16
KEGG_TYROSINE_METABOLISM	KEGG_TYROSINE_METABOLISM	40
KEGG_HISTIDINE_METABOLISM	KEGG_HISTIDINE_METABOLISM	27
KEGG_ARGININE_AND_PROLINE_METABOLISM	KEGG_ARGININE_AND_PROLINE_METABOLISM	51
KEGG_LYSINE_DEGRADATION	KEGG_LYSINE_DEGRADATION	39
KEGG_LINOLEIC_ACID_METABOLISM	KEGG_LINOLEIC_ACID_METABOLISM	27
KEGG_BETA_ALANINE_METABOLISM	KEGG_BETA_ALANINE_METABOLISM	22
KEGG_CITRATE_CYCLE_TCA_CYCLE	KEGG_CITRATE_CYCLE_TCA_CYCLE	30
KEGG_GLYCOLYSIS_GLUconeogenesis	KEGG_GLYCOLYSIS_GLUconeogenesis	61
KEGG_CYSTEINE_AND_METHIONINE_METABOLISM	KEGG_CYSTEINE_AND_METHIONINE_METABOLISM	34
KEGG_BUTANOATE_METABOLISM	KEGG_BUTANOATE_METABOLISM	34
KEGG_RENIN_ANGIOTENSIN_SYSTEM	KEGG_RENIN_ANGIOTENSIN_SYSTEM	17
KEGG_PYRUVATE_METABOLISM	KEGG_PYRUVATE_METABOLISM	39
KEGG_ALANINE_ASPARTATE_AND_GLUTAMATE_METABOLISM	KEGG_ALANINE_ASPARTATE_AND_GLUTAMATE_METABOLISM	30
KEGG_STARCH_AND_SUCROSE_METABOLISM	KEGG_STARCH_AND_SUCROSE_METABOLISM	49
KEGG_ADIPOCYTOKINE_SIGNALING_PATHWAY	KEGG_ADIPOCYTOKINE_SIGNALING_PATHWAY	67

KEGG_ARACHIDONIC_ACID_METABOLISM	KEGG_ARACHIDONIC_ACID_METABOLISM	56
KEGG_ASCORBATE_AND_ALDARATE_METABOLISM	KEGG_ASCORBATE_AND_ALDARATE_METABOLISM	24
KEGG_PORPHYRIN_AND_CHLOROPHYLL_METABOLISM	KEGG_PORPHYRIN_AND_CHLOROPHYLL_METABOLISM	39
KEGG_BIOSYNTHESIS_OF_UNSATURATED_FATTY_ACIDS	KEGG_BIOSYNTHESIS_OF_UNSATURATED_FATTY_ACIDS	20
KEGG_GLYOXYLATE_AND_DICARBOXYLATE_METABOLISM	KEGG_GLYOXYLATE_AND_DICARBOXYLATE_METABOLISM	16
KEGG_PENTOSE_AND_GLUCURONATE_INTERCONVERSIONS	KEGG_PENTOSE_AND_GLUCURONATE_INTERCONVERSIONS	26
KEGG_ABC_TRANSPORTERS	KEGG_ABC_TRANSPORTERS	44
KEGG_INSULIN_SIGNALING_PATHWAY	KEGG_INSULIN_SIGNALING_PATHWAY	137
KEGG_CYTOKINE_CYTOKINE_RECEPTOR_INTERACTION	KEGG_CYTOKINE_CYTOKINE_RECEPTOR_INTERACTION	258
KEGG_RIBOSOME	KEGG_RIBOSOME	87
KEGG_SPLICEOSOME	KEGG_SPLICEOSOME	110
KEGG_BLADDER_CANCER	KEGG_BLADDER_CANCER	40
KEGG_HEMATOPOIETIC_CELL_LINEAGE	KEGG_HEMATOPOIETIC_CELL_LINEAGE	81
KEGG_NOD_LIKE_RECEPTOR_SIGNALING_PATHWAY	KEGG_NOD_LIKE_RECEPTOR_SIGNALING_PATHWAY	60
KEGG_T_CELL_RECEPTOR_SIGNALING_PATHWAY	KEGG_T_CELL_RECEPTOR_SIGNALING_PATHWAY	106
KEGG_LEISHMANIA_INFECTION	KEGG_LEISHMANIA_INFECTION	58
KEGG_FC_GAMMA_R_MEDIATED_PHAGOCYTOSIS	KEGG_FC_GAMMA_R_MEDIATED_PHAGOCYTOSIS	92
KEGG_DNA_REPLICATION	KEGG_DNA_REPLICATION	36
KEGG_HOMOLOGOUS_RECOMBINATION	KEGG_HOMOLOGOUS_RECOMBINATION	24
KEGG_PRIMARY_IMMUNODEFICIENCY	KEGG_PRIMARY_IMMUNODEFICIENCY	35
KEGG_CELL_CYCLE	KEGG_CELL_CYCLE	118

enrichmentScore	NES	pvalue	p.adjust	qvalue	rank	leading_edge
0.788294802	2.905109152	1.00E-10	3.07E-09	2.07E-09	1211	tags=65%, list=6%, signal=61%
0.790863606	2.881537498	1.00E-10	3.07E-09	2.07E-09	1399	tags=63%, list=7%, signal=59%
0.769050646	2.861852322	1.00E-10	3.07E-09	2.07E-09	1873	tags=69%, list=9%, signal=63%
0.827121517	2.711756282	1.00E-10	3.07E-09	2.07E-09	2063	tags=80%, list=10%, signal=72%
0.714519557	2.682391932	1.00E-10	3.07E-09	2.07E-09	2899	tags=60%, list=14%, signal=51%
0.720961101	2.664541795	1.00E-10	3.07E-09	2.07E-09	1676	tags=58%, list=8%, signal=53%
0.826903637	2.604613273	1.82E-09	3.35E-08	2.26E-08	1873	tags=68%, list=9%, signal=62%
0.783167053	2.547139856	1.19E-09	2.61E-08	1.77E-08	1964	tags=66%, list=10%, signal=60%
0.686401358	2.536815238	2.07E-10	5.44E-09	3.67E-09	1434	tags=46%, list=7%, signal=43%
0.753409377	2.50583156	1.28E-09	2.61E-08	1.77E-08	2298	tags=79%, list=11%, signal=70%
0.696286839	2.485800035	4.93E-09	8.25E-08	5.57E-08	1532	tags=52%, list=7%, signal=48%
0.774359506	2.439107725	2.58E-07	3.17E-06	2.14E-06	1816	tags=68%, list=9%, signal=62%
0.703668761	2.434773325	1.13E-08	1.73E-07	1.17E-07	1455	tags=53%, list=7%, signal=49%
0.902818381	2.391952314	3.01E-08	4.26E-07	2.87E-07	1026	tags=81%, list=5%, signal=77%
0.709338585	2.325599475	4.14E-07	4.76E-06	3.21E-06	2063	tags=52%, list=10%, signal=47%
0.743080427	2.275653714	8.36E-06	7.70E-05	5.19E-05	1873	tags=63%, list=9%, signal=57%
0.636052208	2.234209557	3.58E-06	3.66E-05	2.47E-05	1873	tags=59%, list=9%, signal=54%
0.67673533	2.212433221	6.23E-06	6.04E-05	4.07E-05	2298	tags=46%, list=11%, signal=41%
0.718577072	2.200613181	2.86E-05	0.0002285	0.00015	1348	tags=52%, list=7%, signal=49%
0.752764199	2.194873047	1.79E-05	0.000157	0.00011	1816	tags=68%, list=9%, signal=62%
0.701264387	2.173474809	3.79E-05	0.0002906	0.0002	3225	tags=57%, list=16%, signal=48%
0.591038316	2.153496931	3.38E-06	3.66E-05	2.47E-05	1816	tags=38%, list=9%, signal=34%
0.684592294	2.149705519	2.43E-05	0.0002034	0.00014	582	tags=32%, list=3%, signal=31%
0.672052139	2.110327861	5.33E-05	0.000392	0.00026	2298	tags=65%, list=11%, signal=58%
0.757644379	2.039809237	0.000361	0.0020132	0.00136	2095	tags=47%, list=10%, signal=42%
0.62127775	2.031127196	0.000115	0.0007856	0.00053	1816	tags=46%, list=9%, signal=42%
0.649079204	2.011733841	0.000429	0.0023209	0.00157	582	tags=47%, list=3%, signal=45%
0.577082576	1.996770841	7.54E-05	0.0005334	0.00036	1773	tags=45%, list=9%, signal=41%
0.51169839	1.894299896	0.00015	0.000983	0.00066	2222	tags=28%, list=11%, signal=25%

0.529661084	1.887827873	0.000174	0.0011014	0.00074	1645 tags=36%, list=8%, signal=33%
0.607228746	1.810319867	0.002841	0.012751	0.00861	1399 tags=58%, list=7%, signal=54%
0.544636647	1.78056643	0.001881	0.0086528	0.00584	1399 tags=36%, list=7%, signal=34%
0.628306485	1.770704381	0.005887	0.0235473	0.0159	3618 tags=65%, list=18%, signal=54%
0.665263318	1.762567274	0.007824	0.0305146	0.0206	807 tags=38%, list=4%, signal=36%
0.570517401	1.72671532	0.00796	0.0305146	0.0206	1668 tags=54%, list=8%, signal=50%
0.505467489	1.691518725	0.004047	0.016925	0.01143	881 tags=25%, list=4%, signal=24%
0.382956963	1.573519429	0.001383	0.0066966	0.00452	3020 tags=24%, list=15%, signal=21%
-0.412535696	-1.493985916	0.00029	0.0016702	0.00113	4663 tags=35%, list=23%, signal=28%
-0.459618292	-1.494554868	0.008456	0.0317549	0.02144	8169 tags=79%, list=40%, signal=48%
-0.447748426	-1.4983352	0.005081	0.0207776	0.01403	9637 tags=69%, list=47%, signal=37%
-0.537372565	-1.536481093	0.012295	0.0452462	0.03054	2553 tags=45%, list=12%, signal=39%
-0.484048951	-1.555207354	0.003483	0.0152569	0.0103	4231 tags=44%, list=21%, signal=35%
-0.513676221	-1.577795467	0.003733	0.0159746	0.01078	5320 tags=43%, list=26%, signal=32%
-0.490743824	-1.636592064	0.000557	0.002927	0.00198	5554 tags=42%, list=27%, signal=31%
-0.546988358	-1.668129741	0.001058	0.0052607	0.00355	5554 tags=53%, list=27%, signal=39%
-0.509982735	-1.676812586	0.000284	0.0016702	0.00113	5797 tags=53%, list=28%, signal=38%
-0.603936721	-1.704712566	0.001871	0.0086528	0.00584	4027 tags=53%, list=20%, signal=43%
-0.686129063	-1.759340902	0.000762	0.0038932	0.00263	1982 tags=38%, list=10%, signal=34%
-0.637161836	-1.78934473	0.000274	0.0016702	0.00113	4515 tags=66%, list=22%, signal=51%
-0.576708489	-1.947909513	4.41E-08	5.80E-07	3.91E-07	4163 tags=47%, list=20%, signal=37%

core_enrichment

SERPINC1/MASP2/C6/F9/C7/C8A/F13B/KNG1/F12/PLG/F11/KLKB1/C4BPA/MBL2/C8B/FGA/MASP1/CPB2/SERPIND1/FGB/FGG/SERPINF2/F7/SERPINA5/C1S
CYP2A6/CYP3A4/CYP2A7/CYP1A2/ADH4/CYP2C8/ADH1C/CYP2A13/ADH1B/CYP2C9/UGT1A4/CYP1A1/CYP4A22/CYP4A11/UGT2B10/UGT2B15/CYP2B6/UGT
CYP2A6/CYP3A4/CYP2A7/CYP1A2/ADH4/CYP2C8/ADH1C/CYP2A13/ADH1B/CYP2C9/UGT1A4/GSTM1/UGT2B10/UGT2B15/CYP2B6/UGT1A3/ADH1A/GSTA1/
ADH4/ADH1C/ADH1B/CYP4A22/ACADL/CYP4A11/ADH1A/EHHADH/ALDH2/ACSL1/ADH6/GCDH/ACADSB/ACAT1/ALDH7A1/ACAA2/ECHS1/ACSL6/ACSL5/HA
HAO2/AGXT/DAO/HAO1/SLC27A2/XDH/EHHADH/EPHX2/BAAT/ACSL1/PIPOX/PEX11G/ACOX2/SCP2/PXMP2/PHYH/CAT/MLYCD/ACSL6/PECR/ACSL5/ACOX1,
CYP3A4/CYP1A2/ADH4/CYP2C8/ADH1C/ADH1B/CYP2C9/UGT1A4/CYP1A1/GSTM1/UGT2B10/UGT2B15/CYP2B6/UGT1A3/ADH1A/GSTA1/CYP3A43/GSTA2/L
GNMT/SDS/BHMT/CTH/AGXT/DAO/DMGDH/AGXT2/SHMT1/PIPOX/SARDH/ALAS1/CBS/GLYCK/GATM/GAMT/GCAT/MAOB/SRR/AOC3/MAOA
CYP1A2/CYP1A1/OGDHL/KMO/ACMSD/EHHADH/AOX1/ALDH2/HAAO/TDO2/GCDH/IDO2/AADAT/CAT/ACAT1/INMT/ALDH7A1/ECHS1/HADH/ALDH9A1/ALC
CYP8B1/SLC27A5/FABP4/PCK1/APOA5/CYP4A22/ACADL/CYP7A1/CYP4A11/APOC3/SLC27A2/PCK2/EHHADH/HMGCS2/ACSL1/ANGPTL4/ACOX2/APOA1/SCP
ABAT/ALDH6A1/EHHADH/AOX1/HMGCS2/ALDH2/ACADSB/ACAT1/ALDH7A1/IVD/ACAA2/ECHS1/BCKDHB/HADH/MCEE/ACAA1/ACADM/PCCB/BCKDHA/HIB
CYP3A4/HSD11B1/AKR1D1/HSD17B6/UGT1A4/CYP1A1/CYP7A1/UGT2B10/UGT2B15/UGT1A3/SRD5A2/CYP3A43/UGT2B7/CYP11A1/CYP3A5/UGT1A1/CYP3
ABAT/ALDH6A1/EHHADH/ALDH2/ACAT1/ALDH7A1/MLYCD/ECHS1/MCEE/ACADM/SUCLG2/PCCB/ACACB/HIBCH/ALDH9A1/ALDH3A2/LDHC/ACSS3/ACSS2/P
CYP2A6/CYP3A4/CYP2A7/CYP2A13/UGT1A4/UPB1/UGT2B10/UGT2B15/UGT1A3/NAT2/CYP3A43/XDH/UPP2/CES2/UGT2B7/CYP3A5/DPYS/UGT1A1/CYP3A7
CYP8B1/SLC27A5/AKR1D1/CYP7A1/CYP39A1/BAAT/ACOX2/SCP2/CYP27A1/AKR1C4/HSD17B4/AMACR/CH25H
TAT/ADH4/ADH1C/HPD/ADH1B/ADH1A/AOX1/HGD/GOT2/ADH6/GSTZ1/GOT1/DBH/PNMT/FAH/MAOB/ADH7/ALDH1A3/AOC3/MAOA/ADH5
UROC1/CNDP1/FTCD/AMDHD1/ALDH2/HDC/ACY3/ALDH7A1/ASPA/HAL/ALDH9A1/HNMT/ALDH3A2/MAOB/ALDH1A3/ALDH1B1/MAOA
CPS1/GLS2/PRODH/OTC/DAO/ARG1/ALDH2/GOT2/NAGS/ASL/ASS1/ALDH7A1/GOT1/GATM/ACY1/GAMT/ALDH9A1/NOS2/PRODH2/SAT1/ALDH4A1/ALDH3
AASS/OGDHL/EHHADH/ALDH2/PIPOX/GCDH/AADAT/ACAT1/ALDH7A1/ECHS1/HADH/BBOX1/ALDH9A1/ALDH3A2/SETD7/ALDH1B1/DLST/ACAT2
CYP3A4/CYP1A2/CYP2C8/CYP2C9/CYP3A43/CYP3A5/CYP2E1/CYP2C19/CYP3A7/CYP2J2/PLA2G2A/PLA2G12B/PLA2G5/CYP2C18
CNDP1/UPB1/ABAT/EHHADH/ALDH2/DPYS/ALDH7A1/MLYCD/ECHS1/ACADM/HIBCH/ALDH9A1/ALDH3A2/AOC3/ALDH1B1
PCK1/OGDHL/PCK2/PC/ACO1/SUCLG2/FH/SDHD/SDHA/SDHB/DLST/IDH2/SDHC/DLD/OGDH/SUCLG1/MDH2
ADH4/ADH1C/ADH1B/PCK1/ALDOB/G6PC/ADH1A/FBP1/GCK/PCK2/ALDH2/ADH6/ALDH7A1/PKLR/ENO3/ALDH9A1/PGM1/ALDH3A2/LDHC/ADH7/ACSS2/AI
TAT/SDS/BHMT/CTH/CDO1/DNMT3L/GOT2/MAT1A/ADI1/CBS/GOT1
ACSM2A/ACSM5/ABAT/EHHADH/HMGCS2/ALDH2/BDH1/ACAT1/ALDH5A1/ACSM3/ALDH7A1/ECHS1/ACSM1/HADH/ALDH9A1/HMGCL/ACADS/ALDH3A2/A
REN/ACE2/MME/ENPEP/CTSG/AGTR1/CMA1/ANPEP
PCK1/ACOT12/PCK2/LDHD/ALDH2/HAGH/ACAT1/ALDH7A1/GRHPR/PKLR/PC/ACYP2/ACACB/ALDH9A1/ALDH3A2/LDHC/ACSS2/ALDH1B1
CPS1/GLS2/AGXT/GPT2/ABAT/AGXT2/GPT/GOT2/ASL/ALDH5A1/ASS1/ACY3/ASPA/GOT1
GYS2/UGT1A4/G6PC/GBA3/UGT2B10/UGT2B15/UGT1A3/GCK/TREH/UGT2B7/UGT1A1/UGT1A5/UGP2/UGT2B4/AMY2B/PGM1/AGL/UGT1A9/UGT2B28/EN
PCK1/G6PC/PPARGC1A/LEPR/PCK2/ACSL1/SLC2A4/ACSL6/PRKAG2/ACSL5/IRS2/ACACB/CPT1A/IRS1/PPARA/RXRA/ADIPOR2/CD36/AGRP

CYP2C8/CYP2C9/CYP4F2/CYP4A22/CYP4A11/CYP2B6/CYP4F3/EPHX2/CYP2E1/CYP2C19/CYP2J2/PLA2G2A/PLA2G12B/PLA2G5/GGT5/CYP2C18/LTC4S/CYP2U
UGT1A4/UGT2B10/UGT2B15/UGT1A3/UGT2B7/ALDH2/UGT1A1/ALDH7A1/UGT1A5/UGT2B4/ALDH9A1/UGT1A9/ALDH3A2/UGT2B28
UGT1A4/UGT2B10/UGT2B15/UGT1A3/UGT2B7/UGT1A1/ALAS1/ALAD/UGT1A5/UGT2B4/UGT1A9/CP/BLVRB/UGT2B28
BAAT/PECR/ACOX1/ACAA1/ACOT2/ACOT1/ELOVL6/ELOVL2/ACOT4/ACOX3/HSD17B12/HADHA/TECR
HAO2/HAO1/MTHFD1/GRHPR/GLYCTK/ACO1
UGT1A4/UGT2B10/UGT2B15/UGT1A3/DCXR/UGT2B7/UGT1A1/CRYL1/UGT1A5/UGP2/UGT2B4/UGT1A9/UGT2B28/XYLB
ABCA8/ABCB11/ABCB4/ABCA6/ABCA9/ABCG2/ABCG8/ABCC9/ABCG5/ABCC6/ABCC11
GYS2/PCK1/G6PC/FBP1/PPARGC1A/GCK/PCK2/SOCS2/SLC2A4/PKLR/PRKAG2/IRS2/FOXO1/PIK3R1/PPP1R3B/PDE3B/ACACB/IRS1/INSR/PYGL/LIPE/CALML3/
AMH/CCL3L3/IL23R/CD40LG/IL22RA2/PF4V1/TNFRSF12A/XCL2/CXCR6/CCL22/KITLG/CCR1/IL2RB/CCR4/CCL5/CCL13/CSF2RB/IL11/IL20RB/CSF1R/TNFRSF13
RPL11/RPL15/RPL36/RPL31/RPL10/RPL21/RPL22/RPLP1/RPS15/RPS9/RPL10A/RPS3A/RPL12/RPL24/RPS11/RPL19/RPL4/RPL30/MRPL13/RPS17/RPL37A/RPS
THOC3/SF3B2/SART1/SF3B3/DDX46/TRA2B/SF3B5/SF3B1/CRNKL1/RBM8A/PRPF4/TRA2A/SNRPD3/HNRNPC/SMNDC1/PRPF40A/PPIE/CCDC12/RBM25/PRP
MAPK3/NRAS/VEGFA/RASSF1/HRAS/MYC/PGF/THBS1/CDK4/CDKN2A/FGFR3/E2F3/VEGFB/E2F1/EGF/E2F2/MMP1/MMP9
MS4A1/TFRC/KITLG/CD33/IL11/CSF1R/CR1/ITGA4/CD5/CD8A/CD1E/CD37/CD3E/ITGA3/CD44/CD3G/TNF/CD2/CSF1/CD22/CD8B/CD1B/CSF2RA/IL1B/CD19/
NOD1/NLRC4/CASP8/MAPK3/CARD6/HSP90AB1/NAIP/CCL5/CCL13/PYDC1/NLRP3/CARD18/TNFAIP3/MAPK12/CASP5/TNF/NOD2/BIRC3/RIPK2/PSTPIP1/IL1
PTPN6/PLCG1/PIK3R5/IL10/MAPK3/NRAS/CD40LG/HRAS/PIK3CG/CD28/LCP2/ZAP70/PRKCQ/PAK4/PTPRC/NFATC2/MAP3K8/LAT/VAV3/CBL/CD8A/CHP2/LC
PTPN6/IRAK1/IL10/MAPK3/FCGR2C/IL1A/FCGR3B/STAT1/CR1/TGFB2/ITGA4/FCGR3A/PRKCB/MAPK12/FCGR2A/TLR2/TNF/ITGB2/NCF4/IFNGR2/TGFB1/IFN
CFL1/ARPC2/DNM1L/PIP5K1B/PLCG1/LYN/PIK3R5/MAPK3/WAS/PIP5K1C/LIMK2/FCGR2C/PRKCG/ARPC4/PIK3CG/PLA2G6/INPP5D/ARPC3/WASF2/PLA2G4A
PCNA/RFC3/LIG1/POLA2/PRIM2/DNA2/MCM5/POLE2/POLA1/RNASEH2A/FEN1/MCM7/PRIM1/POLD1/MCM3/MCM6/RFC4/MCM4/MCM2
XRCC3/RAD54B/POLD1/BRCA2/EME1/XRCC2/BLM/RAD51/RAD54L
CD40LG/AICDA/RFXANK/ZAP70/RFXAP/TNFRSF13C/PTPRC/CD8A/LCK/TAP1/BTK/CIITA/CD3E/ADA/TNFRSF13B/DCLRE1C/CD8B/CD79A/JAK3/CD19/ICOS/IL2
CCND2/RAD21/PCNA/CDKN2B/CDK2/HDAC2/CDKN2D/ANAPC7/MYC/CDKN2C/TGFB2/PTTG2/SKP2/CDC14A/PRKDC/DBF4/MCM5/YWHAZ/TGFB1/MCM7/C

/SERPING1/F2/CFH/C4BPB/C3/CFB/PROC/C1R/VWF/F8/F5/C2/CFI/F10/C8G/A2M/THBD/C5/PROS1
1A3/ADH1A/CYP3A43/RDH16/UGT2B7/CYP3A5/CYP2C19/RDH5/UGT1A1/ADH6/CYP3A7/CYP26A1/UGT1A5/DGAT2/UGT2B4/DHRS4/ALDH1A1/DHRS4L2/U
/CYP3A43/GSTA2/FMO3/UGT2B7/AOX1/CYP2D6/CYP3A5/FMO4/CYP2E1/GSTM2/CYP2C19/UGT1A1/ADH6/CYP3A7/GSTZ1/FMO2/FMO5/UGT1A5/MGST1/G
.DH/ACOX1/ACAA1/ACADM/CPT1A/ALDH9A1/ACADS/CPT2/ALDH3A2/ADH7/ALDH1B1/HADHB/ADH5
/HSD17B4/ACAA1/AMACR/SOD1/DHRS4/NOS2/HMGCL/DECR2/PAOX/CRAT/GSTK1/ECH1/PEX19/PEX11A/IDH2/PEX1/PEX7/NUDT12/PEX12/HACL1/PEX14/I
JGT2B7/CYP3A5/CYP2E1/GSTM2/CYP2C19/UGT1A1/ADH6/EPHX1/CYP3A7/GSTZ1/UGT1A5/AKR1C4/MGST1/GSTM5/UGT2B4/UGT1A9/CYP2C18/MGST2/UC

2/CYP27A1/ACSL6/ACSL5/ACOX1/APOA2/AQP7/ACAA1/ACADM/CPT1A/PLIN1/CPT2/FABP1/PPARA
ICH/ALDH9A1/HMGCL/ACADS/HIBADH/DBT/ALDH3A2/HSD17B10/MCCC2/PCCA/ALDH1B1/HADHB/ACAD8/AUH/ACAT2
A7/SRD5A1/HSD17B8/HSD3B1/UGT1A5/AKR1C4/CYP17A1/UGT2B4/HSD17B2/UGT1A9/UGT2B28/HSD3B2

SORBS1/PIK3R3/PRKACA/CBLC/CALML6/SHC4/CRK/G6PC2/PHKG1/PRKCZ/PHKB
C/CRLF2/CCR2/IL15RA/TGFB2/TNFSF4/TNFRSF25/CCL17/CXCL9/CCL3L1/TNFRSF17/TNFSF13B/BMP7/OSMR/CXCR5/CXCR4/TNFRSF8/TNF/CCR5/TNFRSF13B,
16/RPL27A/RPL38/RPS6/RPL29/RPS12/RPS27/RPS18/RPL35/RPL18A/RPL37/RPS20/RPL17/RPL7A/RPL32/RPL14/RPS24/RPLP2/RPS23/RPL18/RPS4X/RPL5/RP
F19/SNRNP200/U2AF1/PQBP1/PHF5A/DDX23/EIF4A3/DHX15/USP39/BUD31/HNRNPM/MAGOH/TXNL4A/PRPF31/PRPF6/SF3A3/HSPA2/ISY1/ACIN1/SNRPG,

CK/PIK3R2/MAPK12/CD3E/PAK1/RASGRP1/CD3G/NFATC4/TNF/CD8B/PIK3CD/CDK4/VAV1/IFNG/NCK2/NFKBIE/CARD11/ICOS/CD3D/PDCD1/PAK6/CTLA4/M,
V/PTPRC/FCGR3A/LAT/VAV3/PIK3R2/PRKCB/PLA2G4D/FCGR2A/PAK1/VASP/WASF1/ARPC1B/HCK/DOCK2/PIK3CD/VAV1/PLA2G4F/RAC2/ASAP1/MARCKSL1/

DK4/CDKN2A/MCM3/CDC25B/E2F3/RBL1/SMC1B/MCM6/CHEK1/CCNE2/MCM4/CCNA2/ESPL1/CDC7/MAD2L1/E2F5/E2F1/MCM2/PKMYT1/CCNE1/CDC6/C

STM5/UGT2B4/UGT1A9/CYP2C18/MGST2/UGT2B28/MAOB/GSTK1/ADH7/ALDH1A3/GSTO1/MAOA

/CXCR3/CCL4L2/IL12RB1/CSF1/IFNGR2/TGFB1/CLCF1/IL15/CXCL13/CCR10/TNFRSF10C/EDA/CD70/CCR8/IFNG/TNFRSF4/LTA/OSM/CCL28/CSF2RA/RELT/IL1B
S10/RPS27A/RPL6/RPL13A/RPL28/RPS2/RPL39/RPL23A/RPL35A/RPS19/RPL7/RPL23/RPS5/RPL27/RPS7/RPS21/RPLP0/RPS3/RPS8/RPL22L1/RPSA/RPL8/RPL9
/PRPF38B/RBM17/PUF60/SNRNP70/SNRNP40/HNRNPU/LSM4/LSM7/RBMX/PRPF38A/HNRNPA1L2/THOC2/THOC1/HNRNPA1/SNRPB2/HSPA1B/PRPF40B/PI

DC25A/E2F2/CDK1/CDC45/CCNB1/CDC25C/PTTG1/CCNB2/PLK1/SFN/BUB1B/BUB1/TTK/CDC20

IL18/VEGFB/CCR6/CD27/IL2RG/TNFRSF11B/CCL26/XCL1/CSF3R/IL12A/IL2RA/TNFSF15/TNFSF9/LTB/IL21R/TNFRSF11A/CCR3/TNFRSF9/CXCL6/TNFRSF18/EC
RPF3/SNRPC/HNRNPA3/SNRPE/PPIL1/EFTUD2/LSM2/U2AF2/TCERG1/SNRPF/PPIH/SNRPA/NCBP2/SNRPA1/SNRPD2/SF3B4/SF3A2/SNRPD1/HSPA6/SNRPB

GF/CXCL3/TNFRSF21/CXCL1/IL20RA/LIF/EPO/CCL20/CXCL5