

Supplementary Table 1. List of Upregulated genes and their fold change in metastatic set

Gene Name	Fold Change
RXRG	2.88
SYTL5	2.68
KLK10	2.65
HMGA2	2.61
DCSTAMP	2.60
GABRB2	2.58
PRR15	2.54
CLDN10	2.48
METTL7B	2.43
PDZK1IP1	2.40
LINC02555	2.37
LAMB3	2.32
EGFEM1P	2.30
ZCCHC12	2.30
NMU	2.29
FAXC	2.28
LEMD1	2.26
ARHGAP36	2.22
GOLT1A	2.22
LRRK2-DT	2.15
SYT12	2.15
KLHDC8A	2.14
TMPRSS4	2.12
PRSS2	2.11
NGEF	2.09
RYR1	2.09
AHNAK2	2.08
SCEL	2.07
PDZRN4	2.06
ST6GALNAC5	2.05
CLDN16	2.03
CDH3	2.00
SLC27A6	2.00
CITED1	1.97
TRDC	1.97
FAM230B	1.97
KCNN4	1.97
LRRC52-AS1	1.95
KCNQ3	1.94
GLT1D1	1.92
ADORA1	1.92
TENM1	1.92
FAM20A	1.91

MIR31HG	1.91
ABCC3	1.90
KCNJ2	1.90
HPCAL4	1.89
LAMP5	1.87
TM4SF4	1.87
THRSP	1.87
GDF15	1.85
LRP4	1.85
ALOX15B	1.85
LINC00891	1.85
LCN2	1.84
AGR2	1.83
KLK11	1.80
RAB27B	1.80
ECM1	1.80
GALE	1.79
EVA1A	1.76
DPP4	1.76
TUSC3	1.75
COMP	1.74
NFE2L3	1.74
PLPP2	1.73
ULBP2	1.73
NR2F1-AS1	1.73
CD1A	1.72
LIPH	1.72
CRLF1	1.72
GAP43	1.71
CTXND1	1.70
SYT1	1.70
CEACAM6	1.69
SPTBN2	1.69
HS6ST2	1.69
SLC34A2	1.69
CCL13	1.68
ALDH1A3	1.67
ETV4	1.67
TDO2	1.67
DOCK9-DT	1.67
NOD1	1.66
KISS1R	1.65
GLDN	1.65
ETNK2	1.65
STK32A	1.63
TIAM1	1.63

KRT19	1.63
TMEM79	1.63
PCSK1N	1.62
ABTB2	1.62
CHI3L1	1.62
IGSF1	1.62
S100A5	1.62
TESC	1.62
TNFRSF12A	1.61
SLIT1	1.60
LPAR5	1.59
PLAU	1.59
BRINP1	1.59
MMP16	1.59
LRRK2	1.58
CLDN1	1.58
TMEM163	1.58
MFAP2	1.57
INAVA	1.57
SHROOM4	1.57
B3GNT3	1.57
MIR100HG	1.57
HLA-DQB2	1.56
NPTXR	1.56
CDKN2B	1.56
CYP1B1	1.55
NAPSA	1.55
MAMLD1	1.55
TRIM29	1.55
IL17RD	1.55
SYTL1	1.55
TACSTD2	1.55
RIMS2	1.55
ACP5	1.54
NAT8L	1.54
PC	1.54
C19orf33	1.53
CORO2A	1.53
SPOCK1	1.53
MACC1	1.53
NRCAM	1.53
PLEKHA4	1.52
NHSL2	1.52
MEX3D	1.52
ADTRP	1.52
NOX4	1.52

KRT80	1.52
EMILIN2	1.52
H2BC8	1.51
KLK7	1.50

Supplementary Table 2. List of downregulated genes and their fold change in metastatic set

Gene Name	Fold Change
CRABP1	0.49
DIRAS2	0.49
PLA2R1	0.49
SEMA3D	0.49
RYR2	0.48
TMEM139	0.48
STXBP5L	0.48
TFF3	0.47
DGKI	0.47
CDH16	0.47
ADH1B	0.46
SERTM1	0.45
IGFBPL1	0.45
PKHD1L1	0.45
IPCEF1	0.44
ZMAT4	0.43
MRO	0.43
SCARA5	0.43
SNORD3B-1	0.41
LRP1B	0.39

Supplementary Table 3. List of upregulated genes and their fold change in non-aggressive set

Gene Name	Fold Change
DCSTAMP	3.09
KLK10	2.94
GABRB2	2.87
RXRG	2.81
SYTL5	2.80
CLDN10	2.61
PRSS2	2.59
HMGA2	2.55
PRR15	2.55
LRRC52-AS1	2.54
PDZK1IP1	2.44
ARHGAP36	2.40
TMPRSS4	2.33
AHNAK2	2.29

ST6GALNAC5	2.29
GAP43	2.29
LAMB3	2.27
METTL7B	2.25
LEMD1	2.24
FAXC	2.20
FAM230B	2.19
SYT12	2.19
GOLT1A	2.18
LAMP5	2.17
ZCCHC12	2.15
KLHDC8A	2.14
CITED1	2.10
NGEF	2.09
LRRK2-DT	2.08
GDF15	2.05
RIMS2	2.04
KCNQ3	2.03
SCEL	2.03
LCN2	2.00
CDH3	2.00
SLC27A6	1.99
LINC02555	1.99
KLK7	1.98
ABCC3	1.97
KCNJ2	1.97
KCNN4	1.96
EGFEM1P	1.96
RAB27B	1.95
NMU	1.95
TRDC	1.95
CD1A	1.94
BRINP1	1.92
LIPH	1.91
FAM20A	1.90
TENM1	1.90
KLK11	1.89
PDZRN4	1.88
CDKN2B	1.87
RYR1	1.86
LRP4	1.84
MIR31HG	1.83
TMEM163	1.82
SPTBN2	1.82
SLC34A2	1.81
ADTRP	1.80

ADORA1	1.79
THRSP	1.78
ALOX15B	1.78
CHI3L1	1.75
BEAN1	1.75
GLDN	1.75
STK32A	1.74
CTXND1	1.74
ALDH1A3	1.74
TIAM1	1.73
SYT1	1.72
COMP	1.72
SHROOM4	1.72
CEACAM6	1.72
AGR2	1.71
GLT1D1	1.71
GALE	1.71
CLDN16	1.71
HRH1	1.70
HLA-DQB2	1.69
NOD1	1.69
NR2F1-AS1	1.69
DPP4	1.69
CXCL17	1.69
LPAR5	1.68
ULBP2	1.68
S100B	1.67
MMP16	1.67
KISS1R	1.67
EVA1A	1.65
PTP4A3	1.65
SDK1	1.65
DEPDC1B	1.65
NFE2L3	1.65
DOK7	1.65
CCL13	1.64
MAMLD1	1.64
CYP1B1	1.63
MKX	1.63
IGSF1	1.63
COL10A1	1.62
ABTB2	1.62
MIR100HG	1.62
TUSC3	1.62
LRRK2	1.61
TMEM79	1.61

PDLIM4	1.61
NOX4	1.60
COL13A1	1.60
DOCK9-DT	1.59
CPA3	1.59
B3GNT3	1.59
CORO2A	1.59
LRATD1	1.58
HPCAL4	1.58
ECM1	1.58
TMEM92	1.58
NRCAM	1.58
PLAU	1.58
RUNX2	1.57
TNFAIP6	1.57
TACSTD2	1.57
PCSK1N	1.57
KCNJ5	1.56
ALOX5	1.56
LINC00891	1.55
NHSL2	1.54
POU2F3	1.54
INAVA	1.54
SFTPB	1.54
CRLF1	1.53
CLDN1	1.53
EPPK1	1.53
KRT19	1.53
RUNX1	1.53
ADAMTS9	1.53
NAT8L	1.53
PRSS3P2	1.52
IL17RD	1.52
JAK3	1.52
PRSS3	1.52
PCSK2	1.52
FAP	1.52
TNFRSF12A	1.50

Supplementary Table 4. List of downregulated genes and their fold change in non-aggressive set

Gene Name	Fold Change
MPPED2	0.50
ELAPOR1	0.50
ADH1B	0.50
PKHD1L1	0.50
TFCP2L1	0.49
COL23A1	0.49
NEB	0.49
GPM6A	0.49
DIRAS2	0.48
TFF3	0.48
SPX	0.48
KCNIP4	0.48
GJB6	0.48
LYVE1	0.47
RGS8	0.47
DIO1	0.47
SERTM1	0.47
RYR2	0.46
DGKI	0.45
IRS4	0.45
CDH16	0.45
STXBP5L	0.44
ZMAT4	0.42
MRO	0.42
IGFBPL1	0.41
MMRN1	0.40
SNORD3B-1	0.38
LRP1B	0.38

Supplementary Table 5. List of genes and their frequency in metastatic set

Gene	Frequency
EGFR	26
PTK2B	25
RYR2	24
BCL2	23
CACNA1D	23
SFRP1	23
CXCL12	22
GPB1	22
KCNJ2	22
KCNQ1	22
RYR1	22
ABL1	21

ADRA2A	21
SLC8A1	21
CDK5	20
DMD	20
EDN1	20
FKBP1B	20
ITPR1	20
RGS2	20
SRC	20
ANK2	19
CRABP2	19
FYN	19
AGT	18
AKT1	18
CACNA1A	18
CAV1	18
CX3CL1	18
EFEMP1	18
FGFR3	18
HBEGF	18
INHBB	18
KIT	18
PSEN1	18
ADRB2	17
ANXA6	17
CACNA2D1	17
FGF13	17
KCNJ5	17
KCNMA1	17
KCNN4	17
MCOLN3	17
NTRK2	17
P2RX7	17
SCN4B	17
BAX	16
CACNA2D2	16
CACNB3	16
CALM3	16
CRABP1	16
CYP1B1	16
CYP26B1	16
FGFR1	16
IRS1	16
ITPR2	16
ITPR3	16
KCNK5	16
KCNQ3	16
MYO5A	16
NRP1	16
PTN	16

RELN	16
SRI	16
ADORA1	15
AKR1C3	15
ATP1B1	15
CALM1	15
CALM2	15
CAMK2D	15
ERBB2	15
F2R	15
GHR	15
GRIN2C	15
KCNAB1	15
KCNE3	15
KCNE4	15
LCK	15
P2RX4	15
PPARG	15
PTEN	15
RGS4	15
S100A1	15
S100A9	15
SCNN1A	15
TRPC1	15
ALDH1A1	14
APOE	14
CACNG6	14
CCN2	14
CHRNA7	14
DUOX1	14
ERBB4	14
FGFR2	14
FHL1	14
FLNA	14
GAS6	14
GRIK2	14
HCN4	14
HTT	14
IL1B	14
KCNIP4	14
KCNJ8	14
LPL	14
LYN	14
NEDD4L	14
NRCAM	14
PAK1	14
PLCG1	14
PLN	14
S100A8	14
SNCA	14

TREM2	14
VEGFA	14
ABCC3	13
ACKR3	13
AGR2	13
ANGPTL4	13
ANO1	13
CACNA1I	13
CCN3	13
CXADR	13
DUSP4	13
DUSP6	13
EDN3	13
EHD3	13
EPHB3	13
ESR1	13
FXYD1	13
GABRB3	13
GAS1	13
IGF1	13
INSR	13
JAK2	13
KCNAB2	13
KCNJ15	13
KCNJ16	13
KCNK1	13
KCNS3	13
LRRK2	13
NR2F2	13
PDGFRA	13
PLCB1	13
PPARD	13
PRKACA	13
PRKCE	13
PTPRC	13
RET	13
SCNN1G	13
SEMA6D	13
SFN	13
SLC1A1	13
SLC30A4	13
SPP1	13
TMEM38B	13
TNFRSF12A	13
TRPV2	13
ACACB	12
ALDH1A3	12
AQP1	12
AR	12
ATP1B2	12

ATP2A2	12
CD44	12
CLIC2	12
CXCL10	12
CYBA	12
DPP6	12
FABP4	12
FGFBP1	12
FXD3	12
GATA3	12
GDF15	12
GSK3B	12
HSPA2	12
IGFBP2	12
KCNIP3	12
KCNK3	12
KLF4	12
LRP8	12
MCOLN1	12
MEF2C	12
NTRK3	12
PDE4D	12
PTPN3	12
SLC39A8	12
STIM2	12
TGFA	12
THY1	12
TRPC6	12
VAV3	12
ABCA8	11
ACVR1	11
ADM	11
AKR1C1	11
AREG	11
ATP2B1	11
ATP2C2	11
BID	11
BMP7	11
CAPN3	11
CCL5	11
CD36	11
CDH16	11
CDKN2A	11
CHP1	11
CHRM3	11
CLIC4	11
CORO1A	11
CRLF1	11
CXCL14	11
DAPK1	11

DPT	11
EFNA5	11
EPHA3	11
EPHA4	11
FGF1	11
FGF7	11
FLT1	11
FOXO3	11
GABRB2	11
GABRE	11
GLRB	11
GNA14	11
GSTO1	11
HPN	11
HYAL2	11
ICAM1	11
IGF1R	11
IGF2	11
INHBA	11
ITIH5	11
JPH1	11
KCNK17	11
KCNMB1	11
KCNQ5	11
KITLG	11
LRP1	11
MAP2K6	11
MST1R	11
MYLK	11
NCS1	11
NDUFA4L2	11
NLGN2	11
NMU	11
NR4A3	11
NRP2	11
PAK2	11
PDE4B	11
PDGFB	11
PDPK1	11
PINK1	11
PLCG2	11
RAF1	11
RAMP3	11
RARA	11
RARB	11
RBP1	11
S100A6	11
SHANK3	11
SHC1	11
SLC19A1	11

SLC1A4	11
SLC24A1	11
SLC24A3	11
SLC26A4	11
SLC6A6	11
SLC8B1	11
SNTA1	11
SOX9	11
SREBF1	11
ST6GALNAC2	11
STK39	11
SYT17	11
TCIRG1	11
TENM1	11
TGFB2	11
THBS4	11
TNFRSF21	11
TTYH2	11

Supplementary Table 6. List of genes and their frequency in non-aggressive set

Gene	Frequency
KCNQ1	38
CACNA1D	37
PTK2B	35
EDN1	34
SFRP1	33
ABAT	32
KCNJ2	32
KCNJ5	32
KCNS3	32
ADRA2A	31
ANO1	31
BCL2	31
CACNA2D2	31
FKBP1B	31
GPER1	31
AGT	30
CACNB3	30
HCN4	30
ITPR1	30
KIT	30
CACNA1A	29
EDN3	29
EGFR	29
KCNAB1	29
KCNE4	29
RYR2	29
KCNE3	27

KCNJ8	27
KCNK1	27
KCNMA1	27
KCNQ3	27
SCN4B	27
ADORA1	26
CXCL12	26
GRIN2C	26
PTEN	26
RGS4	26
AKR1C3	25
GRIK2	25
ITPR3	25
KCNK3	25
KCNK5	25
KCNN4	25
RELN	25
RYR1	25
SCNN1A	25
SLC1A1	25
CHRNA7	24
HPN	24
ITPR2	24
KCNAB2	24
KCNJ15	24
KCNJ16	24
ALDH1A1	23
CAV1	23
CDK5	23
DUSP6	23
IL1B	23
ITGA2	23
P2RX4	23
P2RX7	23
ADRB2	22
AKT1	22
BMP2	22
CACNA1I	22
CARTPT	22
CCN3	22
EFEMP1	22
FHL1	22
GHR	22
INHBB	22
KCNIP4	22
NMU	22
SCNN1G	22
SLC8A1	22
ANXA6	21
APOE	21

CACNA2D1	21
CLIC6	21
CYP1B1	21
DPP6	21
IGF1	21
IRS1	21
NLGN2	21
NTRK2	21
RGS2	21
SLC27A2	21
SRI	21
SYT1	21
ADM	20
AKR1C1	20
ALDH1A3	20
AQP1	20
CCL5	20
CRABP2	20
CXCL14	20
FGF13	20
FXD1	20
KCNIP3	20
MCOLN3	20
NTRK3	20
REST	20
RET	20
SLC26A4	20
SNCA	20
BMP7	19
CRABP1	19
DHRS3	19
DUSP4	19
FGFR3	19
FXD3	19
FYN	19
GABRB3	19
KCNJ13	19
KCNQ5	19
LPL	19
PPARD	19
PSEN1	19
TFF3	19
TRPV2	19
VDR	19
ANXA9	18
AQP3	18
ATP1B1	18
ATP1B2	18
AVPR1A	18
CACNG6	18

CALM1	18
CHRN1	18
CLIC5	18
COMP	18
FGFR1	18
FLT1	18
GABRE	18
GLRB	18
GPC3	18
KCNMB1	18
KCNMB4	18
MYLK	18
NRCAM	18
NRP1	18
PPARG	18
PRKCE	18
SERPINE2	18
SLC1A3	18
SLC1A4	18
SLC24A1	18
SLC8B1	18
SPTBN2	18
ANK2	17
BEST1	17
CCN2	17
CD36	17
CDKN1A	17
CDKN2A	17
CLIC3	17
CXCR4	17
DMD	17
DPT	17
EPHB1	17
EPHB3	17
ERBB4	17
F2R	17
FAM155B	17
FBP1	17
FLNA	17
GABRB2	17
GCH1	17
GPM6A	17
JAK2	17
KALRN	17
LRRK2	17
MAP2K6	17
PDGFRA	17
PIEZO2	17
RARB	17
RGN	17

RRAD	17
SEMA6D	17
SLC24A3	17
SLC6A6	17
SLIT2	17
SYT17	17
TBX3	17
TMEM38B	17
TRPC1	17
ABL1	16
ADH1B	16
ANO6	16
BACE2	16
CAMK2B	16
CCL3	16
CLIC2	16
CLTRN	16
CYP26B1	16
DPP4	16
EPHA4	16
ESR1	16
FABP5	16
FOS	16
GAS1	16
GAS6	16
GATA3	16
GDF15	16
GNA14	16
HEY1	16
IGF2	16
KCNK17	16
KCNT2	16
KIF5C	16
LGALS3	16
MEF2C	16
NEDD4L	16
PDGFB	16
PRKG1	16
PROM1	16
PTGS2	16
PTN	16
PTPN11	16
PTPRN2	16
SHANK2	16
SLC16A2	16
SLC30A4	16
SLC39A8	16
SLC9A3	16
SPP1	16
SREBF1	16

STK39	16
TPCN1	16
TRPC6	16
TSPOAP1	16
ZBTB16	16
ABCC3	15
AGR2	15
AGTR1	15
AKT2	15
ANGPTL4	15
BIN1	15
CACHD1	15
CAMK2D	15
CCL2	15
CD44	15
CDH3	15
CES1	15
CLCN4	15
CLCN5	15
CLCNKA	15
CLCNKB	15
CUX2	15
CYP27B1	15
DUOX1	15
GATA6	15
HBEGF	15
ITIH5	15
LAMC2	15
LRP2	15
LTF	15
LYN	15
MMP9	15
PLCG2	15
PPARGC1A	15
PPP1R3C	15
PRKACA	15
PRNP	15
RARRES1	15
RIMS2	15
S100A1	15
S100A6	15
SFN	15
SHANK3	15
SLC4A4	15
SRC	15
STC1	15
SYT12	15
TACSTD2	15
TNFRSF21	15
TREM2	15

YWHAE	15
ACE	14
ADORA2A	14
AKAP9	14
ANK3	14
AQP4	14
ARRB1	14
ATP2A2	14
ATP2B1	14
ATP2C2	14
BAX	14
BMP8A	14
CALM3	14
CATSPER2	14
CCND1	14
CLIC4	14
CRLF1	14
CYP2E1	14
DMPK	14
DSG2	14
EFNA5	14
EGR1	14
EHD3	14
EPHA3	14
EPHX2	14
ERBB2	14
HBA1	14
HGF	14
HMGCR	14
IGFBP3	14
INHBA	14
JUN	14
LCN2	14
MCOLN1	14
MLPH	14
MUC1	14
MYO5A	14
NALCN	14
NCAM1	14
NCS1	14
NELL2	14
NR2F2	14
PAK3	14
PARM1	14
PCLO	14
PDCD4	14
PDE4B	14
PDE4D	14
PEG3	14
PLN	14

PTPN3	14
RAB11FIP1	14
RDH10	14
RDH5	14
RGS16	14
RTN1	14
SFRP4	14
SHROOM2	14
SLC12A2	14
SLC12A4	14
SLC12A8	14
SLC16A1	14
SLC34A2	14
SLC47A1	14
SLIT3	14
SNTA1	14
SOCS2	14
SORBS2	14
ST3GAL6	14
ST6GALNAC2	14
SYBU	14
SYK	14
TESC	14
TGFB2	14
TIAM1	14
TMEM37	14
TNFRSF12A	14
TSPAN1	14

Supplementary Table 7. List of highly expressed genes in papillary thyroid samples from Ukraine, Brazil and South Korean population with log fold change >2.

Ukraine	Brazil	South Korea
CRABP1	TFF3	LAMB3
TFF3	MAPK4	TBC1D2
MMRN1	LRP1B	TGFA
LYVE1	TBX22	STRA6
CDH16	ZMAT4	RYR1
IPCEF1	STXBP5L	NGEF
ADH1B	LOC646736	LRP4
LYVE1	KHDRBS2	NAB2
BEX1	ADH1A	ALDH3B1
PKHD1L1	SLC4A4	MPZL2
CCL21	SLC26A4	MXRA8
DGKI	SLC4A4	METTL7B
ADH1B	KIT	SHROOM4
DPP6	SLC26A7	CYP2S1
LRP1B	MT1F	DPP4

IGFBPL1	MRO	AQP4
DIO1	FAM167A	MET
TFCP2L1	NCAM1	MMP16
COL9A3	ENST00000318245	DUSP6
PLA2R1	LRRC7	DUSP6
TPO	WNT11	AGTR1
EPHB1	DPP6	PROS1
DPP6	CD36	MPZL2
SCARA5	KCNK2	PLCD3
BMP8A	JAKMIP3	KRT19
SLC4A4	NLGN1	RNF24
TCEAL2	CRABP1	GOLT1A
WDR72	HSD17B6	MPZL2
KIT	CRABP1	ALDH1A3
GPM6A	GPR98	C8orf88
CWH43	AOX1	TNFRSF12A
RGS8	FLRT1	
WSCD2	GPC3	AHNAK2
AOX1	C19orf20	CLDN1
RELN	DLG2	ZMAT3
BMP8A		TGFA
SLITRK5	AOX1	MGAT3
MPPED2	HBB	
OCA2	DLG2	MAPK4
MRO	MPPED2	RAPGEF5
SLC4A4	CSGALNACT1	SERPINA1
GJB6	FLJ35024	TUSC3
GPM6A	RELN	FHOD1
SMOC2	DPT	MST1R
ZMAT4	CCDC146	QPCT
CLCNKB	RAG1	TENM1
SLC4A4	HBA2	FAM189A1
NEB	lincRNA:chr18:53750592-53804748_R	DOCK9
CWH43	ELMO1	SERINC2
SPX	HBB	AHNAK2
PPARGC1A	ABCA8	KCNQ3
HGD	DLG2	RAB34
DLG2	SH2D6	SERPINA1
OGDHL	HBB	MPZL2
DPT	GAS1	KCNIP4
SCUBE3	IRS1	GALE
NCAM1	SMOC2	SIPA1L2
LOC440934	SORBS2	
WDR72	ANGPTL1	SBSPON
DPT	PRPH2	NRCAM

DIRAS2	RELN	LPAR5
KCNIP4	GHR	
NCAM1	lincRNA:chr13:33922751-33922994_R	ETV4
TPPP	GNA14	KLK11
RYR2	SORBS2	IGSF1
FOXP2	GHR	ZMAT4
MUM1L1	MFAP4	MMRN1
STXBP5L	SGCD	
CHRD1	TNFRSF11B	WSCD2
SERTM1	RNF150	PLA2R1
SLC25A15	VIPR1	PLA2R1
LINGO2	DCN	IGSF1
FAM167A	LOC100130692	CDH3
EDN3	TNFRSF11B	TMEM163
SCUBE3		MPPED2
RASSF6		PLCH1
SCARA5		CLEC16A
AVPR1A		BID
FOXP2		FRMD3
GLT8D2		KIAA1324
GLT8D2		RDH5
LIFR		
OGN		MDK
FLRT1		
PDLIM3		RAB27A
ANK2		ARHGAP24
LMOD1		PLEKHA4
FBLN1		ENTPD1
ATP6V0E2-AS1		CLCNKA
FBLN1		ANGPTL1
PAPSS2		ITGA9
KCNJ13		PDE5A
SLC25A15		ARHGAP24
TFCP2L1		ALDH1A3
PAPSS2		TM4SF1
LOC646736		UST
TMEM139		
LOC100129129		
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CALCA		
DLG2		
LIFR		
HGD		
LIFR		
COL23A1		

SNORD3D///SNORD3C///SNORD3B-2///SNORD3A///SNORD3B-1		
ELMO1		
FIBIN		
OGN		
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AKR1C1		
SLC4A4		
PKNOX2		
MPPED2		
GLDC		
GSTM3		
LIFR		
CLCNKB///CLCNKA		
SLC26A7		
AGR3		
GPR83		