

Table S1. The potential druggable genes in DGIdb v4.2.0

Gene name	Entrez id	Interaction clai	Interactio	Drug claim	Drug claim primary name	Drug name	Drug concept id	Interaction group score
A2M	2	NCI		COBALT	COBALT			
AADAT	51166	TTD		US10065972,US10065972, Example 281				
AAK1	22848	GuideToPharmac	inhibitor	223366123	BARICITINIB	BARICITINIB	chembl:CHEMBL2105759	7.96
AANAT	15	NCI		FLUOXETIN	FLUOXETINE	FLUOXETINE	chembl:CHEMBL41	1.41
ABAT	18	PharmGKB		valproic acid	valproic acid			
ABCA1	19	PharmGKB		pravastatin	pravastatin	PRAVASTATIN	chembl:CHEMBL1144	0.91
ABCA4	24	TTD		StarGen	StarGen			
ABCA5	23461	TdgClinicalTrial		LIM-0705	LIM-0705	QUERCETIN-3'-O-PHOSPHATE	chembl:CHEMBL4297397	31.83
ABCB1	5243	PharmGKB		antiepileptics	antiepileptics			
ABCB11	8647	DTC		CHENODIOL	CHENODIOL	CHENODIOL	chembl:CHEMBL240597	2.27
ABCB4	5244	NCI		VINBLASTIN	VINBLASTINE	VINBLASTINE	chembl:CHEMBL159	0.61
ABCB5	340273	PharmGKB		haloperidol	haloperidol	HALOPERIDOL	chembl:CHEMBL54	2.69
ABCC1	4363	DTC		NEVIRAPIN	NEVIRAPINE	NEVIRAPINE	chembl:CHEMBL57	0.11
ABCC10	89845	PharmGKB		tenofovir	tenofovir	TENOFOVIR	chembl:CHEMBL483	2.65
ABCC11	85320	PharmGKB		fluorouracil	fluorouracil	FLUOROURACIL	chembl:CHEMBL185	1.21
ABCC2	1244	PharmGKB		tamoxifen	tamoxifen	TAMOXIFEN	chembl:CHEMBL83	0.02
ABCC3	8714	DTC		EMTRICITABINE	EMTRICITABINE	EMTRICITABINE	chembl:CHEMBL885	1.7
ABCC4	10257	GuideToPharmac	inhibitor	252827460	ESTRADIOL DISULFATE			
ABCC5	10057	GuideToPharmac	inhibitor	178101454	SILDENAFIL	SILDENAFIL	chembl:CHEMBL192	0.72
ABCC6	368	NCI		HEPARAN	SHEPARAN SULFATE			
ABCC8	6833	TTD		Glibenclamid	Glibenclamide	GLYBURIDE	chembl:CHEMBL472	2.08
ABCC9	10060	ChemblInteractions		CHEMBL21	(NAMINIDIL	NAMINIDIL	chembl:CHEMBL2105160	1.77
ABCG1	9619	PharmGKB		leucovorin	leucovorin	LEUCOVORIN	chembl:CHEMBL1679	1.52
ABCG2	9429	NCI		ITRACONAZOLE	ITRACONAZOLE	ITRACONAZOLE	chembl:CHEMBL64391	0.21
ABCG4	64137	NCI		HORMONES	HORMONES			
ABCG8	64241	PharmGKB		atorvastatin	atorvastatin	ATORVASTATIN	chembl:CHEMBL1487	4.24
ABHD12	26090	GuideToPharmac	inhibitor	178101960	ORLISTAT	ORLISTAT	chembl:CHEMBL175247	6.37
ABHD6	57406	TTD		Piperazine ca	Piperazine carbamic compound 2			
ABI1	10006	PharmGKB		dasatinib	dasatinib	DASATINIB	chembl:CHEMBL1421	0.44
ABL1	25	TEND		DASATINIB	DASATINIB	DASATINIB	chembl:CHEMBL1421	0.59
ABL2	27	TEND		DASATINIB	DASATINIB	DASATINIB	chembl:CHEMBL1421	1.24
ABO	28	PharmGKB		Ace Inhibitor	Ace Inhibitors, Plain			
ACACA	31	GuideToPharmac	inhibitor	252827541	COMPOUND 21 [PMID: 23981033]			
ACACB	32	GuideToPharmac	inhibitor	178101963	TOFA			
ACADM	34	NCI		HORMONES	HORMONES			
ACADSB	36	TdgClinicalTrial		VALPROIC ACID	VALPROIC ACID			
ACAT1	38	TEND		SULFASALAZINE	SULFASALAZINE	SULFASALAZINE	chembl:CHEMBL421	13.26
ACAT2	39	GuideToPharmac	inhibitor	381118860	K-604			
ACE	1636	TdgClinicalTrial		CANDOXATRIL	CANDOXATRIL	CANDOXATRIL	chembl:CHEMBL35084	1.93
ACE2	59272	GuideToPharmac	inhibitor	223366196	MLN-4760	ORE-1001	chembl:CHEMBL429844	47.74

ACHE	43 TTD	4-PAM deriv:4-PAM derivative 1				
ACKR1	2532 TTD	AQ-13	AQ-13	AQ-13	chembl:CHEMBL4297695	31.83
ACKR3	57007 GuideToPharmac agonist	135652600 TC14012				
ACKR4	51554 GuideToPharmac agonist	135651677 CCL25				
ACLY	47 TTD	ETC-1002	ETC-1002	BEMPEDOIC ACID	chembl:CHEMBL3545313	95.48
ACO1	48 NCI	ANTISERUM	ANTISERUM			
ACP1	52 DTC	GNF-PF-435:GNF-PF-4353		CHEMBL527307	chembl:CHEMBL527307	3.18
ACP3	55 TdgClinicalTrial	MVA-BN	MVA-BN			
ACP5	54 NCI	STREPTOZC	STREPTOZOTOCIN	STREPTOZOCIN	chembl:CHEMBL1651906	0.69
ACR	49 GuideToPharmac inhibitor	252166760 COMPOUND 9 [PMID: 3514912]				
ACSS2	55902 PharmGKB	docetaxel	docetaxel	DOCETAXEL	chembl:CHEMBL92	0.27
ACSS3	79611 PharmGKB	antidepressan	antidepressants			
ACTA1	58 TdgClinicalTrial	THYMOSIN	THYMOSIN BETA-4			
ACTB	60 NCI	ETHINYLE	ETHINYLESTRADIOL	ETHINYL ESTRADIOL	chembl:CHEMBL691	5.3
ACTC1	70 NCI	DEXAMETH	DEXAMETHASONE	DEXAMETHASONE	chembl:CHEMBL384467	1.52
ACTG1	71 PharmGKB	vincristine	vincristine	VINCRISTINE	chembl:CHEMBL90555	1.1
ACTR2	10097 NCI	ETOPOSIDE	ETOPOSIDE	ETOPOSIDE	chembl:CHEMBL44657	2.45
ACVR1	90 DTC	OSI-632	OSI-632	OSI-632	chembl:CHEMBL253969	0.08
ACVR1B	91 GuideToPharmac inhibitor	249565824 COMPOUND 13R [PMID: 23639540]				
ACVR1C	130399 GuideToPharmac inhibitor	249565896 SB-431542		SB-431542	chembl:CHEMBL440084	7.07
ACVR2A	92 TTD	BYM338	BYM338	BIMAGRUMAB	chembl:CHEMBL3137353	31.83
ACVR2B	93 ChemblInteractio antagonist	CHEMBL313	BIMAGRUMAB	BIMAGRUMAB	chembl:CHEMBL3137353	31.83
ACVRL1	94 GuideToPharmac inhibitor	249565824 COMPOUND 13R [PMID: 23639540]				
ACY3	91703 PharmGKB	atenolol	atenolol	ATENOLOL	chembl:CHEMBL24	1.87
ACYP2	98 PharmGKB	cisplatin	cisplatin	CISPLATIN	chembl:CHEMBL11359	1.32
AD5	8081 ChemblInteractio inhibitor	CHEMBL52	(SEMAGACESTAT	SEMAGACESTAT	chembl:CHEMBL520733	2.27
ADA	100 NCI	2,3-DIDEOX	2,3-DIDEOXYADENOSINE			
ADAM10	102 GuideToPharmac inhibitor	348353646 GI254023X				
ADAM12	8038 GuideToPharmac inhibitor	178103981 ILOMASTAT		ILOMASTAT	chembl:CHEMBL19611	4.9
ADAM17	6868 GuideToPharmac inhibitor	178103981 ILOMASTAT		ILOMASTAT	chembl:CHEMBL19611	0.82
ADAM33	80332 GuideToPharmac inhibitor	252166879 INCB3619				
ADAM8	101 GuideToPharmac inhibitor	252166879 INCB3619				
ADAM9	8754 GuideToPharmac inhibitor	178103981 ILOMASTAT		ILOMASTAT	chembl:CHEMBL19611	4.9
ADAMTS1	9510 GuideToPharmac inhibitor	252166863 COMPOUND 12C [PMID: 16516466]				
ADAMTS4	9507 NCI	CHONDROI	CHONDROITIN SULFATE			
ADAMTS5	11096 GuideToPharmac inhibitor	252166754 COMPOUND 15C [PMID: 21536437]				
ADCY1	107 DTC	NSC-270718	NSC-270718	CHEMBL401844	chembl:CHEMBL401844	15.91
ADCY10	55811 GuideToPharmac inhibitor	381744898 KH7				
ADCY2	108 PharmGKB	capecitabine	capecitabine	CAPECITABINE	chembl:CHEMBL1773	1.77
ADCY5	111 DTC	NSC-270718	NSC-270718	CHEMBL401844	chembl:CHEMBL401844	31.83
ADCY6	112 GuideToPharmac inhibitor	178101917 NKY80				
ADCY9	115 DTC	NSC-270718	NSC-270718	CHEMBL401844	chembl:CHEMBL401844	15.91

ADCYAP1	116 NCI	STREPTOZCSTREPTOZOTOCIN	STREPTOZOCIN	chembl:CHEMBL1651906	1.38
ADCYAP1R1	117 GuideToPharmacagonist	135651849 PACAP-27			
ADD1	118 PharmGKB	bumetanide bumetanide	BUMETANIDE	chembl:CHEMBL1072	1.82
ADGRB1	575 GuideToPharmacagonist	135651545 PHOSPHATIDYLSERINE	PHOSPHATIDYL SERINE	chembl:CHEMBL4297669	63.65
ADGRG3	222487 GuideToPharmacagonist	178102517 BECLOMETASONE DIPROPIONATE			
ADGRL3	23284 PharmGKB	nicotine nicotine	NICOTINE	chembl:CHEMBL3	0.65
ADGRV1	84059 PharmGKB	opioids opioids			
ADH1A	124 TdgClinicalTrial	FOMEPIZOLFOMEPIZOLE	FOMEPIZOLE	chembl:CHEMBL1308	39.78
ADH1B	125 PharmGKB	acetaldehyde acetaldehyde	ACETALDEHYDE	chembl:CHEMBL170365	5.3
ADH1C	126 TdgClinicalTrial	FOMEPIZOLFOMEPIZOLE	FOMEPIZOLE	chembl:CHEMBL1308	22.28
ADH4	127 NCI	ETHANOL ETHANOL	ALCOHOL	chembl:CHEMBL545	1.48
ADH7	131 PharmGKB	anthracycline anthracyclines and related substances			
ADIPOQ	9370 NCI	FENOFIBRAFENOFIBRATE	FENOFIBRATE	chembl:CHEMBL672	0.88
ADK	132 DTC	DABIGATR/DABIGATRAN	DABIGATRAN	chembl:CHEMBL48361	2.36
ADM	133 NCI	PD-98059 PD-98059	CHEMBL35482	chembl:CHEMBL35482	0.49
ADO	84890 PharmGKB	hydrochlorothhydrochlorothiazide	HYDROCHLOROTHIAZIDE	chembl:CHEMBL435	3.54
ADORA1	134 DTC	PD-117915 PD-117915	CHEMBL303124	chembl:CHEMBL303124	2.6
ADORA2A	135 TTD	TonapofyllincTonapofylline	TONAPOFYLLINE	chembl:CHEMBL414157	0.61
ADORA2A-AS1	646023 PharmGKB	methotrexate methotrexate	METHOTREXATE	chembl:CHEMBL34259	1.18
ADORA2B	136 GuideToPharmac antagonist	135651364 ZM-241385	ZM-241385	chembl:CHEMBL113142	0.34
ADORA3	140 GuideToPharmac antagonist	178102242 ISTRADEFYLLINE	ISTRADEFYLLINE	chembl:CHEMBL431770	0.4
ADRA1A	148 TdgClinicalTrial	ASENAPINEASENAPINE	ASENAPINE	chembl:CHEMBL3187365	0.06
ADRA1B	147 TdgClinicalTrial	TAMSULOS TAMSULOSIN	TAMSULOSIN	chembl:CHEMBL836	1.22
ADRA1D	146 TEND	DEBRISOQUDEBRISOQUIN	DEBRISOQUIN	chembl:CHEMBL169901	0.45
ADRA2A	150 TdgClinicalTrial	AGN-214868AGN-214868	SENREBOTASE	chembl:CHEMBL3137348	0.12
ADRA2B	151 GuideToPharmac antagonist	135651246 TERGURIDE	TERGURIDE	chembl:CHEMBL73151	0.07
ADRA2C	152 GuideToPharmac agonist	135650327 GUANFACINE	GUANFACINE	chembl:CHEMBL862	0.11
ADRB1	153 DTC	SALMETER/SALMETEROL	SALMETEROL	chembl:CHEMBL1263	0.35
ADRB2	154 TdgClinicalTrial	ALPRENOL(ALPRENOLOL	ALPRENOLOL	chembl:CHEMBL266195	1.84
ADRB3	155 ChemblInteractioagonist	CHEMBL679EPINEPHRINE	EPINEPHRINE	chembl:CHEMBL679	0.06
ADRM1	11047 DTC	BORTEZOMBORTEZOMIB	BORTEZOMIB	chembl:CHEMBL325041	0.53
ADSS2	159 NCI	ALANOSINEALANOSINE	ALANOSINE	chembl:CHEMBL452715	63.65
AFP	174 NCI	ACTINOMY ACTINOMYCIN D			
AGBL4	84871 PharmGKB	ustekinumab ustekinumab	USTEKINUMAB	chembl:CHEMBL1201835	6.37
AGER	177 NCI	VITAMIN B12VITAMIN B12			
AGRP	181 TTD	TTP435 TTP435			
AGT	183 NCI	QUINAPRIL QUINAPRIL	QUINAPRIL	chembl:CHEMBL1592	6.06
AGTR1	185 TdgClinicalTrial	TASOSART/TASOSARTAN	TASOSARTAN	chembl:CHEMBL432162	10.39
AGTR2	186 GuideToPharmac agonist	135651616 ANGIOTENSIN III			
AHCY	191 GuideToPharmac inhibitor	178101808 3-DEAZAADENOSINE	CHEMBL202701	chembl:CHEMBL202701	63.65
AHR	196 DTC	1-NAPHTHY1-NAPHTHYLSISOTHIOCYANATE	1-NAPHTHYLSISOTHIOCYANATE	chembl:CHEMBL1381098	0.27
AHRR	57491 NCI	TCDD TCDD			

AICDA	57379 TTD	JX-929	JX-929			
AIFM1	9131 NCI	HSP70	HSP70			
AIP	9049 NCI	TCDD	TCDD			
AK2	204 PharmGKB	tenofovir	tenofovir	TENOFOVIR	chembl:CHEMBL483	5.3
AK4	205 PharmGKB	tenofovir	tenofovir	TENOFOVIR	chembl:CHEMBL483	5.3
AKAP13	11214 PharmGKB	haloperidol	haloperidol	HALOPERIDOL	chembl:CHEMBL54	1.79
AKR1A1	10327 PharmGKB	doxorubicin	doxorubicin	DOXORUBICIN	chembl:CHEMBL53463	1.35
AKR1B1	231 TTD	Ovine cortico	Ovine corticotropin-releasing hormone			
AKR1B10	57016 DTC	TOLRESTAT	TOLRESTAT	TOLRESTAT	chembl:CHEMBL436	23.87
AKR1C1	1645 DTC	2-(4-CHLOR	2-(4-CHLOROBENZYLIDENE)CHOLIC ACID	CHEMBL562352	chembl:CHEMBL562352	25.46
AKR1C2	1646 TdgClinicalTrial	URSODEOX	URSODEOXYCHOLIC ACID			
AKR1C3	8644 TTD	ASP-9521	ASP-9521			
AKR1C4	1109 PharmGKB	daunorubicin	daunorubicin	DAUNORUBICIN	chembl:CHEMBL178	0.99
AKR1D1	6718 PharmGKB	cholic acid	cholic acid			
AKR7A2	8574 PharmGKB	daunorubicin	daunorubicin	DAUNORUBICIN	chembl:CHEMBL178	0.99
AKT1	207 GuideToPharmac	inhibitor	178101884 GSK690693	GSK-690693	chembl:CHEMBL494089	0.08
AKT1S1	84335 DTC	GEDATOLIS	GEDATOLISIB	GEDATOLISIB	chembl:CHEMBL592445	1.1
AKT2	208 ChemblInteractio	inhibitor	CHEMBL217	IPATASERTIB	chembl:CHEMBL2177390	1.73
AKT3	10000 GuideToPharmac	inhibitor	249565578	IPATASERTIB	chembl:CHEMBL2177390	1.73
ALAD	210 TTD	Aminolevulir	Aminolevulinic acid hci			
ALB	213 TTD	Sodium laury	Sodium lauryl sulfate			
ALCAM	214 CIViC	FLUOROUR	FLUOROURACIL	FLUOROURACIL	chembl:CHEMBL185	1.21
ALDH1A1	216 DTC	ROTTLERIN	ROTTLERIN	ROTTLERIN	chembl:CHEMBL34241	0.01
ALDH1A2	8854 NCI	RETINOL	RETINOL	RETINOL	chembl:CHEMBL986	3.03
ALDH1L1	10840 PharmGKB	l-methionine	l-methionine	METHIONINE	chembl:CHEMBL42336	12.73
ALDH2	217 TTD	ANS-6637	ANS-6637			
ALDH3A1	218 NCI	DISULFIRAM	DISULFIRAM	DISULFIRAM	chembl:CHEMBL964	0.54
ALDH3A2	224 TTD	Disulfram	Disulfram	DISULFIRAM	chembl:CHEMBL964	1.63
ALDH5A1	7915 ChemblInteractio	inhibitor	CHEMBL433	VALPROATE SODIUM	chembl:CHEMBL433	10.61
ALDH7A1	501 TTD	M-518101	M-518101	PEFCALCITOL	chembl:CHEMBL3989862	31.83
ALG10	84920 PharmGKB	gemcitabine	gemcitabine	GEMCITABINE	chembl:CHEMBL888	1.57
ALK	238 MyCancerGenon	inhibitor	ASP3026	ASP3026	chembl:CHEMBL3545360	2.51
ALOX12	239 DTC	MERCURIC	MERCURIC CHLORIDE	MERCURIC CHLORIDE	chembl:CHEMBL1374360	0.15
ALOX15	246 GuideToPharmac	inhibitor	381744944	ML351		
ALOX15B	247 DTC	E324	E324	E324	chembl:CHEMBL172064	0.08
ALOX5	240 TTD	SKF-105809	SKF-105809			
ALOX5AP	241 TdgClinicalTrial	DG031	DG031			
ALPG	251 DTC	NSC-353720	NSC-353720	CHEMBL1408276	chembl:CHEMBL1408276	0.28
ALPI	248 DTC	TIOXOLONI	TIOXOLONE	TIOXOLONE	chembl:CHEMBL442687	0.75
ALPL	249 DTC	5,7,3',5'-TET	5,7,3',5'-TETRAHYDROXYIC	CHEMBL307893	chembl:CHEMBL307893	0.21
ALPP	250 NCI	BETA-ADRE	BETA-ADRENERGIC ANTAGONIST			
AMACR	23600 PharmGKB	cholic acid	cholic acid			

AMD1	262 TTD	ORG 34517/2	ORG 34517/34850			
AMH	268 NCI	DES	DES	DIETHYLSTILBESTROL	chembl:CHEMBL411	3.18
AMHR2	269 PharmGKB	metformin	metformin	METFORMIN	chembl:CHEMBL1431	5.03
AMOT	154796 DTC	ROXITHROM	ROXITHROMYCIN	ROXITHROMYCIN	chembl:CHEMBL1214185	14.14
AMPD1	270 PharmGKB	methotrexate	methotrexate	METHOTREXATE	chembl:CHEMBL34259	1.77
AMY2A	279 TEND	ACARBOSE	ACARBOSE	ACARBOSE	chembl:CHEMBL1566	18.19
ANGPT1	284 ClarityFoundationClinical	TREBANINI	TREBANINIB			
ANGPT2	285 TTD	CVX-060	CVX-060			
ANGPTL3	27329 TTD	AKCEA-AN	AKCEA-ANGPTL3-LRX	VUPANORSEN	chembl:CHEMBL4298197	31.83
ANKFN1	162282 PharmGKB	hydrochlorotl	hydrochlorothiazide	HYDROCHLOROTHIAZIDE	chembl:CHEMBL435	1.77
ANKK1	255239 PharmGKB	prochlorperaz	prochlorperazine	PROCHLORPERAZINE	chembl:CHEMBL728	0.44
ANKRD30B	374860 PharmGKB	corticosteroid	corticosteroids			
ANKS1B	56899 PharmGKB	ethanol	ethanol	ALCOHOL	chembl:CHEMBL545	0.37
ANO1	55107 GuideToPharmac	blocker	178100996 DIDS			
ANO2	57101 PharmGKB	duloxetine	duloxetine	DULOXETINE	chembl:CHEMBL1175	6.37
ANPEP	290 NCI	RECOMBIN	RECOMBINANT ERYTHROPOIETIN			
ANXA1	301 TEND	RIMEXOLO	RIMEXOLONE	RIMEXOLONE	chembl:CHEMBL1200617	0.64
ANXA2	302 DTC	N-ETHYLM	N-ETHYLMALEIMIDE	N-ETHYLMALEIMIDE	chembl:CHEMBL8211	12.73
ANXA5	308 TTD	Diannexin	Diannexin			
AOAH	313 GuideToPharmac	inhibitor	252166807 JZL195			
AOC3	8639 GuideToPharmac	inhibitor	178103840 PHENELZINE	PHENELZINE	chembl:CHEMBL1089	5.71
AOPEP	84909 ChemblInteractio	inhibitor	CHEMBL21(TOSEDOSTAT	TOSEDOSTAT	chembl:CHEMBL2103847	3.35
AOX1	316 TTD	Menadione	Menadione	MENADIONE	chembl:CHEMBL590	0.45
APAF1	317 DTC	BENZETHO	BENZETHONIUM CHLORIDE	BENZETHONIUM CHLORIDE	chembl:CHEMBL221753	0.1
APBA1	320 DTC	HESPERIDIN	HESPERIDIN	HESPERIDIN	chembl:CHEMBL449317	1.41
APBB1	322 TTD	Trimidox	Trimidox	TRIMETHOPRIM/SULFADOXINE	wikidata:Q7842230	10.61
APC	324 JAX-CKB	K-756	K-756			
APCS	325 TTD	GSK2398852	GSK2398852	DEZAMIZUMAB	chembl:CHEMBL4297966	63.65
APEH	327 GuideToPharmac	inhibitor	252166764 ARI-3099			
APEX1	328 DTC	CARMINE	CARMINE	CARMINE	chembl:CHEMBL1366408	0.03
APH1A	51107 TTD	PMID283502	PMID28350212-Compound-15			
APH1B	83464 DTC	LY-411575	LY-411575	CHEMBL392068	chembl:CHEMBL392068	3.54
APLF	200558 PharmGKB	Platinum con	Platinum compounds			
APLN	8862 NCI	CYCLOOXY	CYCLOOXYGENASE INHIBITOR			
APLNR	187 TTD	AMG 986	AMG 986			
APOA1	335 NCI	PROTEIN SY	PROTEIN SYNTHESIS INHIBITOR			
APOA2	336 NCI	RETINOIDS	RETINOIDS			
APOA5	116519 PharmGKB	simvastatin	simvastatin	SIMVASTATIN	chembl:CHEMBL1064	0.59
APOB	338 NCI	ETHANOL	ETHANOL	ALCOHOL	chembl:CHEMBL545	0.08
APOBEC3A	200315 DTC	GNF-PF-331	GNF-PF-3314	CHEMBL582287	chembl:CHEMBL582287	1.25
APOBEC3B	9582 PharmGKB	corticosteroid	corticosteroids			
APOBEC3F	200316 DTC	GNF-PF-371	GNF-PF-3716	CHEMBL609606	chembl:CHEMBL609606	0.18

APOBEC3G	60489 DTC	NSC-50690 NSC-50690	CHEMBL1388703	chembl:CHEMBL1388703	0.18
APOC3	345 TTD	ISIS-APOCIIISIS-APOCIIRx			
APOD	347 NCI	RETINOIDS RETINOIDS			
APOE	348 NCI	PREDNISONPREDNISON	PREDNISON	chembl:CHEMBL635	0.23
APP	351 DTC	GENTIAN V GENTIAN VIOLET	GENTIAN VIOLET	chembl:CHEMBL64894	0.12
APRT	353 NCI	TPA TPA	ALTEPLASE	chembl:CHEMBL1201593	6.7
AQP1	358 TTD	Vitamin C Vitamin C			
AQP10	89872 GuideToPharmac	inhibitor 178101032 HG2+			
AQP2	359 GuideToPharmac	inhibitor 178101032 HG2+			
AQP3	360 GuideToPharmac	inhibitor 381118898 AUPHEN	AUPHEN	chembl:CHEMBL118385	31.83
AQP4	361 DTC	ZONISAMIDZONISAMIDE	ZONISAMIDE	chembl:CHEMBL750	0.69
AQP5	362 GuideToPharmac	inhibitor 178101032 HG2+			
AQP6	363 GuideToPharmac	activator 178101032 HG2+			
AQP7	364 GuideToPharmac	inhibitor 381118898 AUPHEN	AUPHEN	chembl:CHEMBL118385	15.91
AQP8	343 GuideToPharmac	inhibitor 178101032 HG2+			
AQP9	366 NCI	HORMONESHORMONES			
AR	367 DTC	FLUCINOLFLUCINOLONE ACETONFLUCINOLONE ACETONIDE		chembl:CHEMBL989	0.04
ARAF	369 PharmGKB	sorafenib sorafenib	SORAFENIB	chembl:CHEMBL1336	0.68
ARAP2	116984 PharmGKB	Tumor necrosTumor necrosis factor alpha (TNF-alpha) inhibitors			
AREG	374 PharmGKB	panitumumabpanitumumab	PANITUMUMAB	chembl:CHEMBL1201827	2.42
ARF6	382 NCI	INSULIN INSULIN	INSULIN	chembl:CHEMBL1201631	2.5
ARG1	383 PharmGKB	sodium benzcsodium benzoate / sodium phenylacetate			
ARG2	384 TTD	DifluoromethDifluoromethylornithine			
ARHGAP12	94134 PharmGKB	methylphenidmethylphenidate	METHYLPHENIDATE	chembl:CHEMBL796	2.83
ARHGEF28	64283 PharmGKB	methylphenidmethylphenidate	METHYLPHENIDATE	chembl:CHEMBL796	2.83
ARID1A	8289 CIViC	NIVOLUMA NIVOLUMAB	NIVOLUMAB	chembl:CHEMBL2108738	1.7
ARID5B	84159 PharmGKB	haloperidol haloperidol	HALOPERIDOL	chembl:CHEMBL54	0.9
ARMS2	387715 PharmGKB	bevacizumab bevacizumab	BEVACIZUMAB	chembl:CHEMBL1201583	4.11
ARNT	405 NCI	HYDROCORHYDROCORTISONE	HYDROCORTISONE	chembl:CHEMBL389621	1.12
ARRB1	408 DTC	EBSELEN EBSELEN	EBSELEN	chembl:CHEMBL51085	1.82
ARRB2	409 PharmGKB	tramadol tramadol	TRAMADOL	chembl:CHEMBL1237044	1.77
ARSA	410 DTC	RO-410960 RO-410960	CHEMBL1256291	chembl:CHEMBL1256291	0.28
ARSB	411 TTD	Galsulfase Galsulfase	GALSULFASE	chembl:CHEMBL1201822	31.83
ASGR1	432 TTD	AMG 529 AMG 529			
ASIC1	41 TdgClinicalTrial	P-552 P-552			
ASIC2	40 GuideToPharmac	blocker 135652732 CD2+			
ASIC3	9311 GuideToPharmac	blocker 135649936 AMILORIDE	AMILORIDE	chembl:CHEMBL945	0.57
ASIC4	55515 TdgClinicalTrial	P-552 P-552			
ASL	435 PharmGKB	sodium benzcsodium benzoate / sodium phenylacetate			
ASNS	440 CIViC	ASPARAGINASPARAGINASE	ASPARAGINASE	chembl:CHEMBL2108989	25.46
ASPG	374569 TTD	Calaspargase Calaspargase pegol			
ASPH	444 PharmGKB	warfarin warfarin	WARFARIN	chembl:CHEMBL1464	3.54

ASS1	445 CIViC	CHLOROQU	CHLOROQUINE	chembl:CHEMBL76	5.3
ASXL1	171023 JAX-CKB	N/A	N/A		
ATAD2	29028 GuideToPharmac	inhibitor	252827390 COMPOUND 33 [PMID: 26230603]		
ATAD2B	54454 GuideToPharmac	inhibitor	336446907 GSK8814		
ATAD5	79915 DTC	DOMPERID	DOMPERIDONE	chembl:CHEMBL219916	0.04
ATAT1	79969 PharmGKB	gemcitabine	gemcitabine	chembl:CHEMBL888	0.79
ATF2	1386 NCI	2-METHOX	2-METHOXYESTRADIOL	chembl:CHEMBL299613	4.24
ATF3	467 NCI	PROGESTE	PROGESTERONE	chembl:CHEMBL103	1.77
ATF4	468 NCI	VITAMIN E	VITAMIN E		
ATG16L1	55054 PharmGKB	adalimumab	adalimumab	chembl:CHEMBL1201580	7.49
ATG4B	23192 DTC	TOLFENAM	TOLFENAMIC ACID	chembl:CHEMBL121626	0.54
ATG5	9474 PharmGKB	adalimumab	adalimumab	chembl:CHEMBL1201580	7.49
ATIC	471 NCI	FOLIC ACID	FOLIC ACID		
ATM	472 PharmGKB	metformin	metformin	chembl:CHEMBL1431	0.06
ATP10A	57194 PharmGKB	duloxetine	duloxetine	chembl:CHEMBL1175	6.37
ATP1A1	476 TdgClinicalTrial	ISTAROXI	ISTAROXIME	chembl:CHEMBL2093999	5.3
ATP1A2	477 PharmGKB	olanzapine	olanzapine	chembl:CHEMBL715	0.19
ATP1A3	478 ChemblInteractio	inhibitor	CHEMBL17: DIGOXIN	chembl:CHEMBL1751	0.47
ATP1A4	480 ChemblInteractio	inhibitor	CHEMBL16: DESLANOSIDE	chembl:CHEMBL1614	1.77
ATP1B1	481 ChemblInteractio	inhibitor	CHEMBL17: DIGOXIN	chembl:CHEMBL1751	0.47
ATP1B2	482 ChemblInteractio	inhibitor	CHEMBL16: DESLANOSIDE	chembl:CHEMBL1614	1.77
ATP1B3	483 ChemblInteractio	inhibitor	CHEMBL35: ACETYLDIGITOXIN	chembl:CHEMBL3545057	1.99
ATP2A1	487 PharmGKB	celecoxib	celecoxib	chembl:CHEMBL118	0.22
ATP2A2	488 PharmGKB	celecoxib	celecoxib	chembl:CHEMBL118	0.66
ATP2A3	489 PharmGKB	celecoxib	celecoxib	chembl:CHEMBL118	1.99
ATP2B1	490 PharmGKB	Antihyperten:	Antihypertensives		
ATP2C1	27032 TEND	ENFLURAN	ENFLURANE	chembl:CHEMBL1257	2.05
ATP4A	495 TEND	PANTOPRA:	PANTOPRAZOLE	chembl:CHEMBL1502	4.55
ATP4B	496 ChemblInteractio	inhibitor	CHEMBL12: (DEXLANSOPRAZOLE)	chembl:CHEMBL1201863	2.12
ATP5F1D	513 TdgClinicalTrial	ENFLURAN	ENFLURANE	chembl:CHEMBL1257	1.23
ATP5F1E	514 PharmGKB	glucocorticoi:	glucocorticoids		
ATP6V1B2	526 GuideToPharmac	inhibitor	252827539 ENOXACIN	chembl:CHEMBL826	31.83
ATP7A	538 NCI	CARBOPLA:	CARBOPLATIN	chembl:CHEMBL1351	0.27
ATP7B	540 NCI	CARBOPLA:	CARBOPLATIN	chembl:CHEMBL1351	0.64
ATR	545 TTD	M4344	M4344		
ATRX	546 JAX-CKB	Gemcitabine	Gemcitabine	chembl:CHEMBL888	0.17
ATXN1L	342371 CIViC	TRAMETINI	TRAMETINIB	chembl:CHEMBL2103875	1.01
ATXN2	6311 DTC	TCMDC-125	TCMDC-125298	chembl:CHEMBL581152	0.04
AURKA	6790 MyCancerGenon	inhibitor	ALISERTIB	chembl:CHEMBL483158	0.24
AURKB	9212 DTC	ZM-447439	ZM-447439	chembl:CHEMBL202721	0.06
AURKC	6795 GuideToPharmac	inhibitor	178102666 SU6656		
AVPR1A	552 GuideToPharmac	antagonist	178100705 D(CH2)5[TYR(ME)2,ARG8]VP		

AVPR1B	553	GuideToPharmac	antagonist	135652123	D[PEN1, TYR(ME)2]AVP			
AVPR2	554	GuideToPharmac	antagonist	135652465	SKF-105494			
AXIN1	8312	DTC		(+/-)-HYDNC	(+/-)-HYDNOCARPIN	CHEMBL91638	chembl:CHEMBL91638	63.65
AXIN2	8313	PharmGKB		Platinum con	Platinum compounds			
AXL	558	DTC		DASATINIB	DASATINIB	DASATINIB	chembl:CHEMBL1421	0.03
B2M	567	NCI		AMIKACIN	AMIKACIN	AMIKACIN	chembl:CHEMBL177	8.49
B3GAT1	27087	NCI		CHONDROI	CHONDROITIN SULFATE			
B4GALNT1	2583	MyCancerGenom	antibody	DINUTUXIM	DINUTUXIMAB	DINUTUXIMAB	chembl:CHEMBL3137342	31.83
B4GALT2	8704	PharmGKB		aspirin	aspirin	ASPIRIN	chembl:CHEMBL25	0.44
BACE1	23621	DTC		SOPHORAFLA	SOPHORAFLAVANONE G	SOPHORAFLAVANONE G	chembl:CHEMBL243148	7.07
BACE2	25825	GuideToPharmac	inhibitor	178103154	EXAMPLE 98 [WO2011020806]			
BACH1	571	PharmGKB		isoniazid	isoniazid	ISONIAZID	chembl:CHEMBL64	14.69
BAD	572	DTC		RUBOXISTA	RUBOXISTAURIN	RUBOXISTAURIN	chembl:CHEMBL91829	9.09
BAG6	7917	PharmGKB		carbamazepir	carbamazepine	CARBAMAZEPINE	chembl:CHEMBL108	2.71
BAK1	578	DTC		KERACYAN	KERACYANIN	KERACYANIN	chembl:CHEMBL505251	18.19
BAP1	8314	CIViC		APITOLISIB	APITOLISIB	APITOLISIB	chembl:CHEMBL1922094	0.88
BARD1	580	CIViC		APITOLISIB	APITOLISIB	APITOLISIB	chembl:CHEMBL1922094	1.06
BAX	581	NCI		PREDNISOL	PREDNISOLONE	PREDNISOLONE	chembl:CHEMBL131	0.1
BAZ2A	11176	GuideToPharmac	inhibitor	252166772	BAZ2-ICR			
BAZ2B	29994	DTC		ELLIPTECIN	ELLIPTECINE	ELLIPTECINE	chembl:CHEMBL123	0.01
BBOX1	8424	DTC		EBSELEN	EBSELEN	EBSELEN	chembl:CHEMBL51085	1.21
BCAR1	9564	PharmGKB		celecoxib	celecoxib	CELECOXIB	chembl:CHEMBL118	1.99
BCAR3	8412	NCI		ANTIESTRO	ANTIESTROGEN			
BCAT2	587	GuideToPharmac	inhibitor	315661169	COMPOUND 27 [PMID: 26938474]			
BCHE	590	TTD		RVT-103+R	RVT-103+RVT-104			
BCL2	596	NCI		HYDROQUI	HYDROQUINONE	HYDROQUINONE	chembl:CHEMBL537	0.17
BCL2A1	597	TTD		Apogossypol	Apogossypolone			
BCL2L1	598	TTD		Indole-based	Indole-based analog 2			
BCL2L10	10017	ChemblInteractio	inhibitor	CHEMBL21	(OBATOCLAX MESYLATE	OBATOCLAX MESYLATE	chembl:CHEMBL2107358	10.61
BCL2L11	10018	CIViC		EPIDERMAI	EPIDERMAL GROWTH FACTOR RECEPTOR TYROSINE KINASE INHIBITOR			
BCL2L2	599	TALC	inhibitor	NAVITOC	NAVITOCCLAX	NAVITOCCLAX	chembl:CHEMBL443684	2.65
BCL6	604	NCI		FENRETINI	FENRETINIDE	FENRETINIDE	chembl:CHEMBL7301	4.9
BCOR	54880	JAX-CKB		N/A	N/A			
BCORL1	63035	JAX-CKB		N/A	N/A			
BCR	613	PharmGKB		ponatinib	ponatinib	PONATINIB	chembl:CHEMBL1171837	0.79
BDKRB1	623	ChemblInteractio	antagonist	CHEMBL35	BI113823	BI113823	chembl:CHEMBL3545386	10.61
BDKRB2	624	TEND		ICATIBANT	ICATIBANT	ICATIBANT	chembl:CHEMBL2028850	14.69
BDNF	627	NCI		CAPSAICIN	CAPSAICIN	CAPSAICIN	chembl:CHEMBL294199	0.12
BDNF-AS	497258	PharmGKB		antipsychotic	antipsychotics			
BGLAP	632	NCI		METHIMAZ	METHIMAZOLE	METHIMAZOLE	chembl:CHEMBL1515	0.31
BHLHE40	8553	NCI		TRICHOSTA	TRICHOSTATIN A			
BHMT	635	ChemblInteractions		CHEMBL12	(BETAINE HYDROCHLORI	BETAINE HYDROCHLORIDE	chembl:CHEMBL1201130	21.22

BHMT2	23743	ChemblInteractions	CHEMBL12(BETAINE HYDROCHLORIDE)	BETAINE HYDROCHLORIDE	chembl:CHEMBL1201130	21.22	
BIRC2	329	TTD	PMID259809	PMID25980951-Compound-1			
BIRC3	330	GuideToPharmac	inhibitor	252827512 SM-122	CHEMBL481422	chembl:CHEMBL481422	3.03
BIRC5	332	ClarityFoundationBiomar		PACLITAXEPACLITAXEL	PACLITAXEL	chembl:CHEMBL428647	0.07
BIRC7	79444	GuideToPharmac	antagonist	223366066 GDC-0152	GDC-0152	chembl:CHEMBL2063869	5.3
BLK	640	GuideToPharmac	inhibitor	249565816 COMPOUND 2 [PMID: 15546730]			
BLM	641	DTC		9,10-PHENA 9,10-PHENANTHRENEQUINONE		chembl:CHEMBL51931	0.02
BLVRA	644	TTD		Ursodeoxych Ursodeoxycholic acid			
BLVRB	645	PharmGKB		methylene blmethylene blue			
BMP1	649	GuideToPharmac	inhibitor	252166763 COMPOUND 2 [PMID: 11934595]			
BMP10	27302	ChemblInteractio	inhibitor	CHEMBL21(Delantercept	DALANTERCEPT	chembl:CHEMBL2109662	31.83
BMP2	650	DTC		BUTAMBENBUTAMBEN	BUTAMBEN	chembl:CHEMBL127516	7.96
BMP2K	55589	DTC	inhibitor	HESPERADIHESPERADIN	HESPERADIN	chembl:CHEMBL514409	0.8
BMP5	653	PharmGKB		escitalopram escitalopram	ESCITALOPRAM	chembl:CHEMBL1508	7.07
BMP7	655	PharmGKB		pegaspargase pegaspargase	PEGASPARGASE	chembl:CHEMBL2108546	3.18
BMPR1A	657	GuideToPharmac	inhibitor	249565824 COMPOUND 13R [PMID: 23639540]			
BMPR1B	658	GuideToPharmac	inhibitor	249565824 COMPOUND 13R [PMID: 23639540]			
BMPR2	659	GuideToPharmac	inhibitor	249565835 COMPOUND 13A [PMID: 23639540]			
BMX	660	DTC		PD-168393 PD-168393	CHEMBL285063	chembl:CHEMBL285063	15.91
BPI	671	TTD		XOMA-629 XOMA-629			
BPTF	2186	GuideToPharmac	inhibitor	252827533 MS363			
BRAF	673	CIViC		TRAMETINITRAMETINIB DIMETHYL SULFOXIDE			
BRCA1	672	DTC		DOXORUBI(DOXORUBICIN HYDROCHLORIDE)	DOXORUBICIN HYDROCHLORIDE	chembl:CHEMBL359744	0.02
BRCA2	675	OncKB		Talazoparib Talazoparib	TALAZOPARIB	chembl:CHEMBL3137320	1.62
BRD1	23774	GuideToPharmac	inhibitor	252166774 NI-57			
BRD2	6046	DTC		TRIAZOLANTRIAZOLAM	TRIAZOLAM	chembl:CHEMBL646	0.47
BRD3	8019	TTD		ABBV-744 ABBV-744	ABBV-744	chembl:CHEMBL4297454	2.65
BRD4	23476	TTD		Aminocyclop Aminocyclopentenone compound 1			
BRD7	29117	GuideToPharmac	inhibitor	252166773 LP99			
BRD9	65980	GuideToPharmac	inhibitor	252166773 LP99			
BRDT	676	DTC		TRIAZOLANTRIAZOLAM	TRIAZOLAM	chembl:CHEMBL646	1.41
BRPF1	7862	GuideToPharmacology		223366140 COMPOUND 1 [PMID: 25408830]			
BRPF3	27154	GuideToPharmacology		336446909 OF-1			
BRS3	680	GuideToPharmac	antagonist	178102797 BANTAG-1			
BRSK1	84446	DTC		OSI-632 OSI-632	OSI-632	chembl:CHEMBL253969	0.07
BRSK2	9024	GuideToPharmac	inhibitor	249565895 CCT244747	CHEMBL2203843	chembl:CHEMBL2203843	10.61
BSG	682	TTD		[131I]-Metux [131I]-Metuximab injection			
BST1	683	PharmGKB		Beta blockingBeta blocking agents, selective			
BTC	685	PharmGKB		panitumumabpanitumumab	PANITUMUMAB	chembl:CHEMBL1201827	1.52
BTF3P11	690	NCI		CALCITRIO(CALCITRIOL	CALCITRIOL	chembl:CHEMBL846	2.89
BTK	695	TTD		PRN2246 PRN2246			
BTN3A1	11119	GuideToPharmacology		340590246 POM2-C-HMBP			

BUB1	699 GuideToPharmac	inhibitor	249565789 COMPOUND 2-1-1 [PMID: 24900824]			
C10ORF67	256815 PharmGKB		mitoxantrone mitoxantrone	MITOXANTRONE	chembl:CHEMBL58	3.1
C11ORF65	160140 PharmGKB		metformin metformin	METFORMIN	chembl:CHEMBL1431	3.35
C1QA	712 TEND		IMMUNE GIIMMUNE GLOBULIN			
C1R	715 GuideToPharmac	inhibitor	178101079 NAFAMOSTAT	NAFAMOSTAT	chembl:CHEMBL273264	5.79
C1S	716 TTD		TNT009 TNT009			
C3	718 TTD		Imprime PGCImprime PGG immunotherapeutic			
C3AR1	719 GuideToPharmac	agonist	381744906 CASOXIN C			
C5	727 PharmGKB		eculizumab eculizumab	ECULIZUMAB	chembl:CHEMBL1201828	45.47
C5AR1	728 GuideToPharmac	agonist	178100215 C5A DES-ARG	RAVIDASVIR	chembl:CHEMBL3121849	15.91
C5AR2	27202 GuideToPharmac	agonist	135651643 C5A	RAVIDASVIR	chembl:CHEMBL3121849	31.83
C6ORF15	29113 PharmGKB		gemcitabine gemcitabine	GEMCITABINE	chembl:CHEMBL888	0.79
C8ORF34	116328 PharmGKB		irinotecan irinotecan	IRINOTECAN	chembl:CHEMBL481	2.4
C9ORF72	203228 PharmGKB		Tumor necrosTumor necrosis factor alpha (TNF-alpha) inhibitors			
CA1	759 TEND		DICHLORPFDICHLORPHENAMIDE	DICHLORPHENAMIDE	chembl:CHEMBL17	5.89
CA10	56934 PharmGKB		fluticasone prfluticasone propionate			
CA12	771 TTD		Salicyclic aciSalicyclic acid			
CA13	377677 ChemblInteractio	inhibitor	CHEMBL18 ETHOXZOLAMIDE	ETHOXZOLAMIDE	chembl:CHEMBL18	4.9
CA14	23632 GuideToPharmac	inhibitor	178103403 BRINZOLAMIDE	BRINZOLAMIDE	chembl:CHEMBL220491	1.06
CA2	760 TTD		PARABEN PARABEN	PARABEN	chembl:CHEMBL441343	0.4
CA3	761 NCI		ISOTRETINISOTRETINOIN	ISOTRETINOIN	chembl:CHEMBL547	3.86
CA4	762 TTD		Salicyclic aciSalicyclic acid			
CA5A	763 GuideToPharmac	activator	178100344 L-HISTIDINE	HISTIDINE	chembl:CHEMBL17962	3.18
CA5B	11238 ChemblInteractio	inhibitor	CHEMBL18 ETHOXZOLAMIDE	ETHOXZOLAMIDE	chembl:CHEMBL18	4.9
CA6	765 TTD		Sulfamylon Sulfamylon	SULFAMYLON	wikidata:Q47522160	2.55
CA7	766 GuideToPharmac	inhibitor	178103434 METHAZOLAMIDE	METHAZOLAMIDE	chembl:CHEMBL19	1.63
CA9	768 GuideToPharmac	inhibitor	385612194 COMPOUND 5B [PMID: 31287314]			
CACNA1A	773 TEND		PREGABALIPREGABALIN	PREGABALIN	chembl:CHEMBL1059	1.85
CACNA1B	774 TEND		GABAPENTGABAPENTIN	GABAPENTIN	chembl:CHEMBL940	0.45
CACNA1C	775 ChemblInteractio	blocker	CHEMBL12(AMLODIPINE BESYLATE	AMLODIPINE BESYLATE	chembl:CHEMBL1200402	0.37
CACNA1D	776 GuideToPharmac	blocker	135651305 VERAPAMIL	VERAPAMIL	chembl:CHEMBL6966	0.24
CACNA1E	777 ChemblInteractio	modulator	CHEMBL10:PREGABALIN	PREGABALIN	chembl:CHEMBL1059	0.32
CACNA1F	778 ChemblInteractio	modulator	CHEMBL21(IMAGABALIN	IMAGABALIN	chembl:CHEMBL2103836	0.11
CACNA1G	8913 TTD		NGD 94-1 NGD 94-1			
CACNA1H	8912 DTC		FLUNARIZIIFLUNARIZINE DIHYDROCFLUNARIZINE DIHYDROCHLOR	chembl:CHEMBL539027	0.45	
CACNA1I	8911 ChemblInteractio	blocker	CHEMBL15:MIBEFRADIL DIHYDROCFMIBEFRADIL DIHYDROCHLORI	chembl:CHEMBL1534525	0.45	
CACNA1S	779 GuideToPharmac	activator	178100888 (-)-(S)-BAYK8644			
CACNA2D1	781 PharmGKB		celecoxib celecoxib	CELECOXIB	chembl:CHEMBL118	0.11
CACNA2D2	9254 ChemblInteractio	modulator	CHEMBL21(IMAGABALIN	IMAGABALIN	chembl:CHEMBL2103836	0.25
CACNA2D3	55799 ChemblInteractio	blocker	CHEMBL12(BEPRIDIL HYDROCHLORIBEPRIDIL HYDROCHLORIDE	chembl:CHEMBL1200382	0.36	
CACNA2D4	93589 ChemblInteractio	blocker	CHEMBL12(BEPRIDIL HYDROCHLORIBEPRIDIL HYDROCHLORIDE	chembl:CHEMBL1200382	0.36	
CACNB1	782 TdgClinicalTrial		ARVERAPA ARVERAPAMIL			

CACNB2	783 TdgClinicalTrial	ARVERAPA	ARVERAPAMIL				
CACNB3	784 ChemblInteractio	modulator	CHEMBL59:ATAGABALIN	ATAGABALIN	chembl:CHEMBL593430	0.28	
CACNB4	785 TEND		VERAPAMI	VERAPAMIL	chembl:CHEMBL6966	0.53	
CACNG1	786 ChemblInteractio	modulator	CHEMBL59:ATAGABALIN	ATAGABALIN	chembl:CHEMBL593430	0.2	
CACNG2	10369 ChemblInteractio	modulator	CHEMBL10:PREGABALIN	PREGABALIN	chembl:CHEMBL1059	0.36	
CACNG3	10368 ChemblInteractio	modulator	CHEMBL16:GABAPENTIN ENACARBII	GABAPENTIN ENACARBIL	chembl:CHEMBL1628502	0.42	
CACNG4	27092 ChemblInteractio	modulator	CHEMBL94(GABAPENTIN	GABAPENTIN	chembl:CHEMBL940	0.35	
CACNG5	27091 ChemblInteractio	blocker	CHEMBL12(BEPRIDIL HYDROCHLORID	BEPRIDIL HYDROCHLORIDE	chembl:CHEMBL1200382	0.42	
CACNG6	59285 ChemblInteractio	modulator	CHEMBL94(GABAPENTIN	GABAPENTIN	chembl:CHEMBL940	0.35	
CACNG7	59284 ChemblInteractio	modulator	CHEMBL16:GABAPENTIN ENACARBII	GABAPENTIN ENACARBIL	chembl:CHEMBL1628502	0.42	
CADM2	253559 PharmGKB		ethanol	ethanol	ALCOHOL	chembl:CHEMBL545	1.48
CALCA	796 TTD		Bimakalim	Bimakalim	BIMAKALIM	chembl:CHEMBL12552	3.03
CALCB	797 ChemblInteractio	inhibitor	CHEMBL38:EPTINEZUMAB	EPTINEZUMAB	chembl:CHEMBL3833320	31.83	
CALCR	799 GuideToPharmac	agonist	178100626 [125]CT (HUMAN)				
CALCRL	10203 TdgClinicalTrial		CGRP	CGRP	CALCITONIN GENE-RELATED P	wikidata:Q419432	6.37
CALM1	801 TEND		FLUNARIZI	FLUNARIZINE	FLUNARIZINE	chembl:CHEMBL30008	14.14
CALR	811 NCI		RETINOIC	RETINOIC ACID			
CALU	813 PharmGKB		acenocoumar	acenocoumarol	ACENOCOUMAROL	chembl:CHEMBL397420	31.83
CALY	50632 TdgClinicalTrial		TRIFLUOPE	TRIFLUOPERAZINE	TRIFLUOPERAZINE	chembl:CHEMBL422	5.68
CAMK1	8536 DTC		LINIFANIB	LINIFANIB	LINIFANIB	chembl:CHEMBL223360	0.3
CAMK1D	57118 PharmGKB		losartan	losartan	LOSARTAN	chembl:CHEMBL191	1.57
CAMK2A	815 DTC		TAE-684	TAE-684	TAE-684	chembl:CHEMBL509032	0.09
CAMK2B	816 NCI		TRIFLUOPE	TRIFLUOPERAZINE	TRIFLUOPERAZINE	chembl:CHEMBL422	0.23
CAMK2D	817 DTC		GEFITINIB	GEFITINIB	GEFITINIB	chembl:CHEMBL939	0.06
CAMK2G	818 DTC		LINIFANIB	LINIFANIB	LINIFANIB	chembl:CHEMBL223360	0.05
CAMK4	814 NCI		ESTRADIOLE	ESTRADIOL BENZOATE			
CAMKK1	84254 GuideToPharmac	inhibitor	178101957	STO609			
CAMKK2	10645 DTC		PF-562271	PF-562271	PF-00562271	chembl:CHEMBL1084546	0.15
CAMLG	819 TdgClinicalTrial		CYCLOSPOI	CYCLOSPORINE A			
CAMP	820 TTD		Colforsin dar	Colforsin daropate hci			
CANX	821 NCI		MPO	MPO	MYELOPEROXIDASE	chembl:CHEMBL2107858	127.3
CAPG	822 PharmGKB		vincristine	vincristine	VINCRISTINE	chembl:CHEMBL90555	1.1
CAPN1	823 TTD		Undecylenic	Undecylenic acid derivative 1			
CAPN10	11132 PharmGKB		metformin	metformin	METFORMIN	chembl:CHEMBL1431	1.68
CAPN2	824 TTD		Carboxamide	Carboxamide derivative 10			
CARD9	64170 NCI		TUMOR NE	TUMOR NECROSIS FACTOR			
CARM1	10498 GuideToPharmac	inhibitor	336446915	MS049			
CARTPT	9607 NCI		INSULIN	INSULIN	INSULIN	chembl:CHEMBL1201631	0.62
CASP1	834 DTC		BERKELEYI	BERKELEYDIONE	BERKELEYDIONE	chembl:CHEMBL400514	2.65
CASP10	843 ChemblInteractio	inhibitor	CHEMBL19:EMRICASAN	EMRICASAN	chembl:CHEMBL197672	5.3	
CASP12	100506742 ChemblInteractio	inhibitor	CHEMBL19:EMRICASAN	EMRICASAN	chembl:CHEMBL197672	5.3	
CASP14	23581 GuideToPharmac	inhibitor	252166874	GRASSYSTATIN A			

CASP2	835 ChemblInteractioinhibitor	CHEMBL197	EMRICASAN	EMRICASAN	chembl:CHEMBL197672	1.33
CASP3	836 PharmGKB	celecoxib	celecoxib	CELECOXIB	chembl:CHEMBL118	0.06
CASP4	837 ChemblInteractioinhibitor	CHEMBL197	EMRICASAN	EMRICASAN	chembl:CHEMBL197672	5.3
CASP5	838 ChemblInteractioinhibitor	CHEMBL197	EMRICASAN	EMRICASAN	chembl:CHEMBL197672	5.3
CASP6	839 DTC	MYRICETIN	MYRICETIN	MYRICETIN	chembl:CHEMBL164	0.06
CASP7	840 PharmGKB	paclitaxel	paclitaxel	PACLITAXEL	chembl:CHEMBL428647	0.07
CASP8	841 GuideToPharmacinhibitor	252166828	COMPOUND 4 [PMID: 12408711]			
CASP9	842 ChemblInteractioinhibitor	CHEMBL21	(NIVOCASAN	NIVOCASAN	chembl:CHEMBL2105721	3.54
CASR	846 ChemblInteractioinhibitor	CHEMBL21	(TECALCET HYDROCHLORIDE	TECALCET HYDROCHLORIDE	chembl:CHEMBL2107572	3.98
CAST	831 NCI	STAUROSPORINE	STAUROSPORINE	STAUROSPORINE	chembl:CHEMBL388978	0.76
CAT	847 TTD	EUK-189	EUK-189			
CATSPER1	117144 GuideToPharmacblocker	178101029	HC-056456			
CATSPER2	117155 GuideToPharmacactivator	135651539	PGE2	DINOPROSTONE	chembl:CHEMBL548	1.22
CATSPER3	347732 GuideToPharmacactivator	178102065	PGF1A			
CATSPER4	378807 GuideToPharmacactivator	178102065	PGF1A			
CAV1	857 NCI	ETHANOL	ETHANOL	ALCOHOL	chembl:CHEMBL545	0.74
CBFB	865 DTC	CYTARABINE	CYTARABINE	HYDROCHLORIDE	chembl:CHEMBL1256472	0.66
CBL	867 JAX-CKB	Fasudil	Fasudil	FASUDIL	chembl:CHEMBL38380	0.71
CBLB	868 JAX-CKB	Fasudil	Fasudil	FASUDIL	chembl:CHEMBL38380	2.12
CBLC	23624 JAX-CKB	Olaparib	Olaparib	OLAPARIB	chembl:CHEMBL521686	4.71
CBR1	873 GuideToPharmacinhibitor	178102193	WEDELLOLACTONE	WEDELLOLACTONE	chembl:CHEMBL97453	0.96
CBR3	874 PharmGKB	daunorubicin	daunorubicin	DAUNORUBICIN	chembl:CHEMBL178	0.4
CBS	875 PharmGKB	l-methionine	l-methionine	METHIONINE	chembl:CHEMBL42336	25.46
CBX1	10951 DTC	BENSERAZIDE	BENSERAZIDE	BENSERAZIDE	chembl:CHEMBL1096979	0.07
CCHCR1	54535 PharmGKB	nevirapine	nevirapine	NEVIRAPINE	chembl:CHEMBL57	5.53
CCK	885 NCI	DIAZOXIDE	DIAZOXIDE	DIAZOXIDE	chembl:CHEMBL181	4.9
CCKAR	886 TTD	proglumide	proglumide	PROGLUMIDE	chembl:CHEMBL316561	7.96
CCKBR	887 PharmGKB	olanzapine	olanzapine	OLANZAPINE	chembl:CHEMBL715	0.09
CCL1	6346 NCI	ANTISENSE	ANTISENSE	OLIGONUCLEOTIDES		
CCL11	6356 NCI	TNF-ALPHA	TNF-ALPHA			
CCL14	6358 NCI	RANTES	RANTES			
CCL17	6361 NCI	FEXOFENADINE	FEXOFENADINE	HYDROCHLORIDE		
CCL18	6362 NCI	IMMUNOMODULATORS	IMMUNOMODULATORS			
CCL2	6347 TTD	NOX-E36	NOX-E36			
CCL20	6364 TTD	GSK3050002	GSK3050002	GSK-3050002	chembl:CHEMBL4297967	63.65
CCL21	6366 NCI	ADENOVIRAL VECTOR	ADENOVIRAL VECTOR			
CCL22	6367 NCI	RANTES	RANTES			
CCL25	6370 NCI	TNF-ALPHA	TNF-ALPHA			
CCL28	56477 NCI	ANTISERUM	ANTISERUM			
CCL3	6348 NCI	INFLIXIMAB	INFLIXIMAB	INFLIXIMAB	chembl:CHEMBL1201581	3.18
CCL4	6351 NCI	EPO	EPO	EPOETIN ALFA	chembl:CHEMBL1201565	3.35
CCL5	6352 TTD	NI-0701	NI-0701			

CCL7	6354 NCI	RU 486	RU 486			
CCL8	6355 NCI	IL-1	IL-1			
CCN1	3491 NCI	ANTISENSE ANTISENSE OLIGONUCLEOTIDES				
CCN2	1490 NCI	THROMBIN	THROMBIN	THROMBIN	chembl:CHEMBL2108110	0.28
CCNA2	890 NCI	ETHINYL ETHINYL ESTRADIOL				
CCNB1	891 DTC	PROTOAPIGENONE	PROTOAPIGENONE	PROTOAPIGENONE	chembl:CHEMBL414890	1.52
CCND1	595 NCI	NIFEDIPINE	NIFEDIPINE	NIFEDIPINE	chembl:CHEMBL193	0.12
CCND2	894 ClarityFoundationBiomarker	BAY1000394	BAY1000394			
CCND3	896 CIViC	PALBOCICLIB	PALBOCICLIB	PALBOCICLIB	chembl:CHEMBL189963	0.92
CCNE1	898 ClarityFoundationBiomarker	DINACICLIB	DINACICLIB	DINACICLIB	chembl:CHEMBL2103840	4.24
CCNG1	900 TdgClinicalTrial	MX-DNG1	MX-DNG1			
CCNK	8812 PharmGKB	fluorouracil	fluorouracil	FLUOROURACIL	chembl:CHEMBL185	0.2
CCR1	1230 DTC	4'-CHLORO-4'-CHLORO-[2,2',6',2']TERP			chembl:CHEMBL2205805	25.46
CCR10	2826 GuideToPharmacology	348353673	BI-6901			
CCR2	729230 GuideToPharmacology	178100489	GSK COMPOUND 34			
CCR3	1232 GuideToPharmacology	135651654	CCL11			
CCR4	1233 GuideToPharmacology	178100548	[125I]CCL17 (HUMAN)			
CCR5	1234 ChEMBLInteraction	antagonist	CHEMBL12(MARAVIROC)	MARAVIROC	chembl:CHEMBL1201187	27.58
CCR6	1235 NCI	TRAIL	TRAIL			
CCR7	1236 GuideToPharmacology	135651670	CCL21			
CCR8	1237 GuideToPharmacology	135651695	CCL8			
CCR9	10803 TTD	MLN-3126	MLN-3126	MLN3126	chembl:CHEMBL3545268	63.65
CCRL2	9034 GuideToPharmacology	135651663	CCL19			
CD14	929 TdgClinicalTrial	IC14	IC14	IC14	chembl:CHEMBL2109330	95.48
CD163	9332 NCI	GLUCOCORGLUCOCORTICOID				
CD19	930 TTD	CD19.CAR-aCD19.CAR-aNKT cells				
CD1A	909 TEND	ANTITHYMANTITHYMOCYTE GLOBULIN				
CD1D	912 DTC	KRN-7000	KRN-7000	RGI-7000	chembl:CHEMBL384200	190.95
CD2	914 GuideToPharmacology	178103393	ALEFACEPT	ALEFACEPT	chembl:CHEMBL1201571	106.09
CD200	4345 ChEMBLInteraction	inhibitor	CHEMBL17(SAMALIZUMAB)	SAMALIZUMAB	chembl:CHEMBL1743067	190.95
CD22	933 GuideToPharmacology	223366010	MOXETUMOMAB PASUDOTOX			
CD244	51744 NCI	IL-2	IL-2	ALDESLEUKIN	wikidata:Q20801763	4.9
CD247	919 NCI	5-AZACYTIDINE	5-AZACYTIDINE	AZACITIDINE	chembl:CHEMBL1489	1.25
CD248	57124 TTD	Oncetuzumab Oncetuzumab Amatumiximab				
CD27	939 GuideToPharmacology	178101772	CD70			
CD274	29126 FDA	Nivolumab	Nivolumab	NIVOLUMAB	chembl:CHEMBL2108738	2.12
CD276	80381 GuideToPharmacology	antibody	340590220 ENOBLITUZUMAB	ENOBLITUZUMAB	chembl:CHEMBL3545373	190.95
CD28	940 NCI	MPA	MPA	PROGESTERONE	chembl:CHEMBL103	0.29
CD33	945 GuideToPharmacology	antibody	329968375 VADASTUXIMAB	TALIRINE		
CD34	947 NCI	DIFFERENT DIFFERENTIATING AGENTS				
CD36	948 GuideToPharmacology	antagonist	404859035 PEPTIDE 5A			
CD37	951 TTD	IMGN529	IMGN529	NARATUXIMAB EMTANSINE	chembl:CHEMBL2109268	31.83

CD38	952 TTD	CART-38 cel	CART-38 cells			
CD3D	915 TdgClinicalTrial	NI-0401	NI-0401	FORALUMAB	chembl:CHEMBL1743020	6.06
CD3E	916 ChemblInteractions	CHEMBL174	BLINATUMOMAB	BLINATUMOMAB	chembl:CHEMBL1742992	2.73
CD3G	917 TdgClinicalTrial	OTELIXIZU	OTELIXIZUMAB	OTELIXIZUMAB	chembl:CHEMBL1743053	1.63
CD4	920 TTD	Protein vacci	Protein vaccines			
CD40	958 TdgClinicalTrial	LUCATUMU	LUCATUMUMAB	LUCATUMUMAB	chembl:CHEMBL1743038	2.89
CD40LG	959 TTD	BI 655064	BI 655064			
CD44	960 NCI	GENTAMICI	GENTAMICIN	GENTAMICIN	chembl:CHEMBL3039597	2.02
CD47	961 TdgClinicalTrial	ABT-510	ABT-510	ABT-510	chembl:CHEMBL386115	5.3
CD5	921 NCI	HMBA	HMBA			
CD52	1043 GuideToPharmac	antibody 178103376	ALEMTUZUMAB	ALEMTUZUMAB	chembl:CHEMBL1201587	509.21
CD55	1604 NCI	PD-98059	PD-98059	CHEMBL35482	chembl:CHEMBL35482	1.72
CD58	965 NCI	ALBUMIN	ALBUMIN	ALBUMIN HUMAN	chembl:CHEMBL1201451	4.24
CD59	966 NCI	MBL	MBL			
CD6	923 ChemblInteractions	CHEMBL21	(ONCOLYSIN CD6	ONCOLYSIN CD6	chembl:CHEMBL2109485	31.83
CD63	967 NCI	NONSTERO	NONSTEROIDAL ANTI-INFLAMMATORY DRUGS			
CD69	969 NCI	ANTITUMOR	ANTIBIOTICS			
CD7	924 TTD	CD7.CAR/28	CD7.CAR/28zeta CAR T cells			
CD70	970 TTD	AMG 172	AMG 172			
CD74	972 TdgClinicalTrial	MILATUZU	MILATUZUMAB	MILATUZUMAB	chembl:CHEMBL1743040	318.26
CD79B	974 TTD	Polatuzumab	Polatuzumab vedotin			
CD80	941 NCI	CTLA4-IG	CTLA4-IG	ABATACEPT	chembl:CHEMBL1201823	42.43
CD82	3732 NCI	NERVE GRC	NERVE GROWTH FACTOR			
CD83	9308 NCI	SULFASAL	SULFASALAZINE	SULFASALAZINE	chembl:CHEMBL421	5.3
CD84	8832 PharmGKB	etanercept	etanercept	ETANERCEPT	chembl:CHEMBL1201572	6.7
CD86	942 NCI	PAMIDRON	PAMIDRONATE	PAMIDRONIC ACID	chembl:CHEMBL834	3.64
CD8A	925 TTD	Protein vacci	Protein vaccines			
CD9	928 NCI	PROPIONIB	PROPIONIBACTERIUM ACNES			
CDA	978 NCI	CYTARABI	CYTARABINE	CYTARABINE	chembl:CHEMBL803	2.96
CDC25A	993 DTC	3-(3-STIBON	3-(3-STIBONOPHENYL)PR	CHEMBL2057662	chembl:CHEMBL2057662	63.65
CDC25B	994 TTD	Avastin+/-	Ta:Avastin+/-Tarceva			
CDC25C	995 NCI	CDDP	CDDP	CISPLATIN	chembl:CHEMBL11359	0.22
CDC37	11140 DTC	SODIUM M	(SODIUM MOLYBDATE	SODIUM MOLYBDATE	chembl:CHEMBL1801596	63.65
CDC42	998 DTC	SECRAMIN	SECRAMINE B	SECRAMINE B	chembl:CHEMBL1222039	21.22
CDC42BPA	8476 DTC	TAE-684	TAE-684	TAE-684	chembl:CHEMBL509032	0.07
CDC42BPB	9578 GuideToPharmac	inhibitor 249565884	A-443654	A-443654	chembl:CHEMBL379300	4.9
CDC5L	988 PharmGKB	gemcitabine	gemcitabine	GEMCITABINE	chembl:CHEMBL888	1.57
CDC7	8317 ChemblInteractio	inhibitor CHEMBL354	NMS-1116354	NMS-1116354	chembl:CHEMBL3545321	9.79
CDH1	999 JAX-CKB	Volasertib	Volasertib	VOLASERTIB	chembl:CHEMBL1233528	8.49
CDH11	1009 TTD	RG6125	RG6125			
CDH17	1015 NCI	TCDD	TCDD			
CDH2	1000 TdgClinicalTrial	ADH-1	ADH-1	ADH-1	chembl:CHEMBL3818130	31.83

CDH23	64072 PharmGKB	methylphenidmethylphenidate	METHYLPHENIDATE	chembl:CHEMBL796	2.83
CDH3	1001 TTD	PF-3732010 PF-3732010			
CDH5	1003 TdgClinicalTrial	FX06 FX06			
CDK1	983 TTD	RGB-286638 RGB-286638	RGB-286638	chembl:CHEMBL3545083	0.27
CDK10	8558 ChEMBLInteractioinhibitor	CHEMBL48{AZD-5438	AZD-5438	chembl:CHEMBL488436	0.64
CDK11B	984 ChEMBLInteractioinhibitor	CHEMBL35{Roniciclib	RONICICLIB	chembl:CHEMBL3544942	0.8
CDK12	51755 GuideToPharmacinhibitor	375973251 CDK12 INHIBITOR 2			
CDK13	8621 GuideToPharmacinhibitor	375973251 CDK12 INHIBITOR 2			
CDK14	5218 ChEMBLInteractioinhibitor	CHEMBL44{AT-7519	AT-7519	chembl:CHEMBL445813	0.76
CDK15	65061 ChEMBLInteractioinhibitor	CHEMBL35{Roniciclib	RONICICLIB	chembl:CHEMBL3544942	0.8
CDK16	5127 DTC inhibitor	HESPERADIHESPERADIN	HESPERADIN	chembl:CHEMBL514409	0.32
CDK17	5128 ChEMBLInteractioinhibitor	CHEMBL12{PHA-793887	PHA-793887	chembl:CHEMBL1230607	0.76
CDK18	5129 GuideToPharmacinhibitor	249565897 COMPOUND 77 [PMID: 24793884]			
CDK19	23097 GuideToPharmacinhibitor	252827368 PEXIDARTINIB	PEXIDARTINIB	chembl:CHEMBL3813873	0.53
CDK2	1017 TTD	INOC-005 INOC-005			
CDK20	23552 ChEMBLInteractioinhibitor	CHEMBL35{Roniciclib	RONICICLIB	chembl:CHEMBL3544942	0.8
CDK3	1018 TTD	PMID261616PMID26161698-Compound-17			
CDK4	1019 TTD	PD-332991 PD-332991			
CDK5	1020 DTC	TAE-684 TAE-684	TAE-684	chembl:CHEMBL509032	0.01
CDK5R1	8851 DTC	DNDII41716DNDII417165	CHEMBL1406948	chembl:CHEMBL1406948	1.82
CDK6	1021 GuideToPharmacinhibitor	178102290 AT-7519	AT-7519	chembl:CHEMBL445813	0.34
CDK7	1022 CancerCommonsinhibitor	SNS-032 SNS-032	BMS-387032	chembl:CHEMBL296468	0.82
CDK8	1024 DTC	ILORASERTILORASERTIB	ILORASERTIB	chembl:CHEMBL1980297	0.03
CDK9	1025 ChEMBLInteractioinhibitor	CHEMBL14{SELICICLIB	SELICICLIB	chembl:CHEMBL14762	1.02
CDKAL1	54901 PharmGKB	Dipeptidyl peDipeptidyl peptidase 4 (DPP-4) inhibitors			
CDKL1	8814 GuideToPharmacinhibitor	249565840 COMPOUND 9B [PMID: 18986805]			
CDKL2	8999 GuideToPharmacinhibitor	249565786 URMIC-099			
CDKN1A	1026 NCI	ANTIMETAIAANTIMETABOLITE			
CDKN1B	1027 NCI	TCDD TCDD			
CDKN1C	1028 NCI	HISTONE DIHISTONE DEACETYLASE INHIBITOR			
CDKN2A	1029 JAX-CKB	ON-01910 ON-01910	RIGOSERTIB	chembl:CHEMBL1241855	0.67
CDKN2B	1030 CIViC	PALBOCICLPALBOCICLIB	PALBOCICLIB	chembl:CHEMBL189963	2.77
CDKN2B-AS1	100048912 PharmGKB	AntiinflammæAntiinflammatory agents, non-steroids			
CDKN2C	1031 NCI	ANTISENSEANTISENSE OLIGONUCLEOTIDES			
CDKN2D	1032 NCI	5-AZA-2&A15-AZA-2&APOS;-DEOXYCYTIDINE			
CDKN3	1033 ChEMBLInteractioinhibitor	CHEMBL35{Roniciclib	RONICICLIB	chembl:CHEMBL3544942	0.8
CDS1	1040 ChEMBLInteractioinhibitor	CHEMBL35{PREXASERTIB	PREXASERTIB	chembl:CHEMBL3544911	6.37
CDSN	1041 PharmGKB	carboplatin carboplatin	CARBOPLATIN	chembl:CHEMBL1351	0.81
CDX2	1045 NCI	TPN TPN			
CEACAM1	634 NCI	CHEMOKIN CHEMOKINES			
CEACAM3	1084 TTD	Arcitumoma{Arcitumomab	ARCITUMOMAB	chembl:CHEMBL2108253	31.83
CEACAM5	1048 NCI	GENISTEIN GENISTEIN	GENISTEIN	chembl:CHEMBL44	0.47

CEACAM6	4680 NCI		ANTISERUM	ANTISERUM			
CEACAM7	1087 NCI		IFN	IFN			
CEBPA	1050 CIViC		OICR-9429	OICR-9429			
CECR2	27443 GuideToPharmac	inhibitor	252827481	COMPOUND 50 [PMID: 24313754]			
CEL	1056 TTD		Bucelipase al	Bucelipase alfa			
CELA1	1990 TTD		Alpha 1-PI	Alpha 1-PI			
CELF4	56853 PharmGKB		iloperidone	iloperidone	ILOPERIDONE	chembl:CHEMBL14376	8.49
CELSR2	1952 PharmGKB		hmg coa redu	hmg coa reductase inhibitors			
CENPE	1062 TALC	inhibitor	GSK-923295	GSK-923295			
CEP43	11116 PharmGKB		brivanib	brivanib	BRIVANIB	chembl:CHEMBL377300	11.57
CEP68	23177 PharmGKB		aspirin	aspirin	ASPIRIN	chembl:CHEMBL25	0.87
CEP72	55722 PharmGKB		vincristine	vincristine	VINCRISTINE	chembl:CHEMBL90555	2.19
CERK	64781 GuideToPharmac	inhibitor	178103280	NVP 231			
CERKL	375298 PharmGKB		iloperidone	iloperidone	ILOPERIDONE	chembl:CHEMBL14376	8.49
CERS6	253782 PharmGKB		Tumor necros	Tumor necrosis factor alpha (TNF-alpha) inhibitors			
CES1	1066 PharmGKB		clopidogrel	clopidogrel	CLOPIDOGREL	chembl:CHEMBL1771	1.45
CES1P1	51716 PharmGKB		clopidogrel	clopidogrel	CLOPIDOGREL	chembl:CHEMBL1771	3.18
CES2	8824 PharmGKB		SN-38	SN-38	7-ETHYL-10-HYDROXYCAMPTC	chembl:CHEMBL837	1.18
CETP	1071 TTD		DRL-17822	DRL-17822			
CFAP44	55779 PharmGKB		hmg coa redu	hmg coa reductase inhibitors			
CFB	629 GuideToPharmac	inhibitor	252166853	COMPOUND 51 [PMID: 19743866]			
CFD	1675 GuideToPharmac	antibody	252166506	LAMPALIZUMAB	LAMPALIZUMAB	chembl:CHEMBL2109408	63.65
CFH	3075 PharmGKB		photodynami	photodynamic therapy			
CFHR4	10877 PharmGKB		phenytoin	phenytoin	PHENYTOIN	chembl:CHEMBL16	1.63
CFI	3426 NCI		TGFBETA1	TGFBETA1			
CFL1	1072 DTC		SERTRALIN	SERTRALINE	SERTRALINE	chembl:CHEMBL809	0.76
CFLAR	8837 DTC		BAY-11-708	BAY-11-7085	BAY-11-7085	chembl:CHEMBL270299	1.52
CFTR	1080 PharmGKB		ivacaftor /	tezivacaftor / tezacaftor			
CGA	1081 NCI		VINBLASTI	VINBLASTINE	VINBLASTINE	chembl:CHEMBL159	1.41
CGB5	93659 NCI		NORETHIN	NORETHINDRONE	NORETHINDRONE	chembl:CHEMBL1162	4.71
CH25H	9023 Chemb	Interaction inhibitor	CHEMBL281	TABIMORELIN	TABIMORELIN	chembl:CHEMBL281764	10.61
CHAT	1103 NCI		PILOCARP	PILOCARPINE	PILOCARPINE	chembl:CHEMBL550	0.91
CHD1	1105 Tdg	Clinical Trial	EPIRUBIC	EPIRUBICIN	EPIRUBICIN	chembl:CHEMBL417	8.49
CHD4	1108 PharmGKB		vorinostat	vorinostat	VORINOSTAT	chembl:CHEMBL98	2.77
CHEK1	1111 GuideToPharmac	inhibitor	223366046	AZD7762	AZD-7762	chembl:CHEMBL2041933	1.77
CHEK2	11200 GuideToPharmac	inhibitor	336446935	PREXASERTIB	PREXASERTIB	chembl:CHEMBL3544911	0.49
CHIL3L1	1116 NCI		ANTI-INFLA	ANTI-INFLAMMATORY DRUGS			
CHIA	27159 PharmGKB		aspirin	aspirin	ASPIRIN	chembl:CHEMBL25	0.87
CHKA	1119 TTD		TCD-717	TCD-717	TCD-717	chembl:CHEMBL3545084	63.65
CHN2	1124 PharmGKB		fluorouracil	fluorouracil	FLUOROURACIL	chembl:CHEMBL185	1.21
CHPT1	56994 PharmGKB		lamivudine	lamivudine	LAMIVUDINE	chembl:CHEMBL141	2.45
CHRM1	1128 TEND		BENZQUIN	BENZQUINAMIDE	BENZQUINAMIDE	chembl:CHEMBL1201250	0.25

CHRM2	1129 TdgClinicalTrial	DOXACURIDOXACURIUM	DOXACURIUM	chembl:CHEMBL1237123	1.92
CHRM3	1131 GuideToPharmacagonist	135652666 ARECOLINE	ARECOLINE	chembl:CHEMBL7303	0.32
CHRM4	1132 GuideToPharmac antagonist	178103926 UMECLIDINIUM	UMECLIDINIUM	chembl:CHEMBL1187833	0.36
CHRM5	1133 GuideToPharmacagonist	135650728 NNC 11-1607			
CHRNA1	1134 ChemblInteractio antagonist	CHEMBL12(CISATRACURIUM BESYLATE)	CISATRACURIUM BESYLATE	chembl:CHEMBL1200641	0.53
CHRNA10	57053 GuideToPharmac antagonist	135652718 STRYCHNINE	STRYCHNINE	chembl:CHEMBL227934	1.06
CHRNA2	1135 TdgClinicalTrial	GANTACURGANTACURIUM	GANTACURIUM	chembl:CHEMBL1182997	3.18
CHRNA3	1136 ChemblInteractio antagonist	CHEMBL35(TC-6499)	TC-6499	chembl:CHEMBL3545353	0.8
CHRNA4	1137 TTD	RPI-MN RPI-MN			
CHRNA5	1138 ChemblInteractio partial agc	CHEMBL12(POZANICLINE)	POZANICLINE	chembl:CHEMBL127071	3.98
CHRNA6	8973 GuideToPharmac antagonist	178100811 A-CONOTOXIN PIA			
CHRNA7	1139 GuideToPharmac antagonist	336446923 ATRACURIUM	ATRACURIUM	chembl:CHEMBL1360	0.29
CHRNA9	55584 GuideToPharmac antagonist	329968412 RGIA4			
CHRNB1	1140 ChemblInteractio antagonist	CHEMBL12(GALLAMINE TRIETHIODIDE)	GALLAMINE TRIETHIODIDE	chembl:CHEMBL1200993	0.65
CHRNB2	1141 ChemblInteractio antagonist	CHEMBL3 NICOTINE	NICOTINE	chembl:CHEMBL3	1.06
CHRNB4	1143 PharmGKB	cotinine cotinine	COTININE	chembl:CHEMBL578211	0.49
CHRND	1144 ChemblInteractio antagonist	CHEMBL16(TUBOCURARINE CHLORIDE)	TUBOCURARINE CHLORIDE	chembl:CHEMBL1687	0.91
CHRNE	1145 ChemblInteractio antagonist	CHEMBL12(PIPECURONIUM BROMIDE)	PIPECURONIUM BROMIDE	chembl:CHEMBL1200722	0.91
CHRNG	1146 ChemblInteractio antagonist	CHEMBL12(ROCURONIUM BROMIDE)	ROCURONIUM BROMIDE	chembl:CHEMBL1200648	0.76
CHST1	8534 PharmGKB	imatinib imatinib	IMATINIB	chembl:CHEMBL941	1.99
CHST11	50515 NCI	CHONDROITIN SULFATE			
CHST3	9469 PharmGKB	thalidomide thalidomide	THALIDOMIDE	chembl:CHEMBL468	1.82
CHUK	1147 DTC	N-(3-OXODODECANOYL)	CHEMBL8483	chembl:CHEMBL8483	2.12
CHURC1	91612 PharmGKB	methylphenidate	METHYLPHENIDATE	chembl:CHEMBL796	2.83
CIC	23152 CIViC	TRAMETINIB	TRAMETINIB	chembl:CHEMBL2103875	1.01
CIP2A	57650 CIViC	GEMCITABINE	GEMCITABINE	chembl:CHEMBL888	1.57
CISH	1154 NCI	EPO EPO	EPOETIN ALFA	chembl:CHEMBL1201565	6.7
CKM	1158 NCI	SALT SALT	VOLANESORSEN SODIUM	chembl:CHEMBL3544989	5.3
CLC	1178 TTD	TM-601 TM-601	CHLOROTOXIN	chembl:CHEMBL4298122	21.22
CLCA1	1179 TdgClinicalTrial	TALNIFLUMATE	TALNIFLUMATE	chembl:CHEMBL1081506	63.65
CLCC1	23155 PharmGKB	opioids opioids			
CLCN1	1180 GuideToPharmac blocker	178100935 9-ANTHROIC ACID			
CLCN2	1181 ChemblInteractions	CHEMBL12(LUBIPROSTONE)	LUBIPROSTONE	chembl:CHEMBL1201134	148.52
CLCN3	1182 GuideToPharmac blocker	178101102 PHLORETIN	PHLORETIN	chembl:CHEMBL45068	0.84
CLCN4	1183 GuideToPharmac blocker	135652747 ZN2+			
CLCN6	1185 GuideToPharmac blocker	178100996 DIDS			
CLCN7	1186 GuideToPharmac blocker	178100996 DIDS			
CLCNKA	1187 TEND	NIFLUMIC ACID			
CLCNKB	1188 GuideToPharmac activator	135650716 NIFLUMIC ACID			
CLDN18	51208 GuideToPharmac antibody	315661285 IMAB362	ZOLBETUXIMAB	chembl:CHEMBL2109427	190.95
CLEC12A	160364 GuideToPharmac antibody	384403634 TEPODITAMAB			
CLEC4C	170482 ChemblInteractio inhibitor	CHEMBL38(BIIB059)	BIIB059	chembl:CHEMBL3833308	63.65

CLEC4E	26253 GuideToPharmacagonist	329968423 GLCC14C18				
CLK1	1195 GuideToPharmac inhibitor	249565795 COMPOUND 2 [PMID: 22560567]				
CLK2	1196 DTC	GATIFLOXAGATIFLOXACIN	GATIFLOXACIN	chembl:CHEMBL31		0.44
CLK3	1198 DTC	HARMINE HARMINE	HARMINE	chembl:CHEMBL269538		4.24
CLK4	57396 DTC	TAE-684 TAE-684	TAE-684	chembl:CHEMBL509032		0.01
CLNK	116449 PharmGKB	Antihyperten:Antihypertensives				
CLOCK	9575 PharmGKB	salbutamol salbutamol	ALBUTEROL	chembl:CHEMBL714		10.61
CLU	1191 TdgClinicalTrial	OGX-011 OGX-011	CUSTIRSEN SODIUM	chembl:CHEMBL2219773		42.43
CMA1	1215 GuideToPharmac inhibitor	178103177 JNJ-10311795	CHEMBL374027	chembl:CHEMBL374027		63.65
CMKLR1	1240 GuideToPharmacagonist	178100364 RESOLVIN E1				
CMKLR2	2825 GuideToPharmacagonist	135651892 CHEMERIN				
CMPK1	51727 PharmGKB	lamivudine lamivudine	LAMIVUDINE	chembl:CHEMBL141		0.82
CMTM8	152189 PharmGKB	methylphenidmethylphenidate	METHYLPHENIDATE	chembl:CHEMBL796		2.83
CNGA1	1259 TTD	dequalinium dequalinium	DEQUALINIUM	chembl:CHEMBL333826		15.91
CNGA2	1260 TTD	dequalinium dequalinium	DEQUALINIUM	chembl:CHEMBL333826		10.61
CNGA3	1261 GuideToPharmac activator	135651452 CYCLIC AMP				
CNPY4	245812 PharmGKB	Tumor necrosTumor necrosis factor alpha (TNF-alpha) inhibitors				
CNR1	1268 TTD	Purine derivaPurine derivative 1				
CNR2	1269 TTD	Adamantyl dcAdamantyl derivative 1				
CNTF	1270 TTD	NT-501 CNTNT-501 CNTF				
CNTFR	1271 TTD	PegCNTF PegCNTF				
COIL	8161 NCI	EGCG EGCG	EPIGALOCATECHIN GALLATE	chembl:CHEMBL297453		4.9
COL11A1	1301 ChemblInteractions	CHEMBL20OCRIPLASMIN	OCRIPLASMIN	chembl:CHEMBL2095222		0.86
COL11A2	1302 ChemblInteractions	CHEMBL21(COLLAGENASE CLOSTRII	COLLAGENASE CLOSTRIDIUM l	chembl:CHEMBL2108709		1.14
COL15A1	1306 ChemblInteractions	CHEMBL21(COLLAGENASE CLOSTRII	COLLAGENASE CLOSTRIDIUM l	chembl:CHEMBL2108709		1.14
COL18A1	80781 NCI	CSF CSF				
COL1A1	1277 ChemblInteractions	CHEMBL21(COLLAGENASE CLOSTRII	COLLAGENASE CLOSTRIDIUM l	chembl:CHEMBL2108709		2.27
COL1A2	1278 TTD	Solubilized tySolubilized type 1 native bovine collagen				
COL22A1	169044 PharmGKB	salbutamol salbutamol	ALBUTEROL	chembl:CHEMBL714		10.61
COL24A1	255631 ChemblInteractions	CHEMBL21(COLLAGENASE CLOSTRII	COLLAGENASE CLOSTRIDIUM l	chembl:CHEMBL2108709		1.14
COL26A1	136227 PharmGKB	aspirin aspirin	ASPIRIN	chembl:CHEMBL25		0.87
COL27A1	85301 ChemblInteractions	CHEMBL20OCRIPLASMIN	OCRIPLASMIN	chembl:CHEMBL2095222		0.86
COL28A1	340267 ChemblInteractions	CHEMBL20OCRIPLASMIN	OCRIPLASMIN	chembl:CHEMBL2095222		0.86
COL2A1	1280 TEND	COLLAGENCOLLAGENASE	COLLAGENASE CLOSTRIDIUM l	chembl:CHEMBL2108709		2.27
COL3A1	1281 ChemblInteractions	CHEMBL21(COLLAGENASE CLOSTRII	COLLAGENASE CLOSTRIDIUM l	chembl:CHEMBL2108709		2.27
COL4A1	1282 ChemblInteractions	CHEMBL20OCRIPLASMIN	OCRIPLASMIN	chembl:CHEMBL2095222		0.86
COL4A2	1284 TTD	NLG919 NLG919	NAVOXIMOD	chembl:CHEMBL3989951		7.07
COL4A3	1285 ChemblInteractions	CHEMBL21(COLLAGENASE CLOSTRII	COLLAGENASE CLOSTRIDIUM l	chembl:CHEMBL2108709		1.14
COL4A4	1286 ChemblInteractions	CHEMBL20OCRIPLASMIN	OCRIPLASMIN	chembl:CHEMBL2095222		0.86
COL4A5	1287 ChemblInteractions	CHEMBL21(COLLAGENASE CLOSTRII	COLLAGENASE CLOSTRIDIUM l	chembl:CHEMBL2108709		1.14
COL4A6	1288 ChemblInteractions	CHEMBL20OCRIPLASMIN	OCRIPLASMIN	chembl:CHEMBL2095222		0.86
COL5A1	1289 ChemblInteractions	CHEMBL20OCRIPLASMIN	OCRIPLASMIN	chembl:CHEMBL2095222		0.86

COL5A2	1290 ChEMBLInteractions	CHEMBL209OCRIPLASMIN	OCRIPLASMIN	chembl:CHEMBL2095222	0.86
COL5A3	50509 ChEMBLInteractions	CHEMBL209OCRIPLASMIN	OCRIPLASMIN	chembl:CHEMBL2095222	0.86
COL6A1	1291 ChEMBLInteractions	CHEMBL21(COLLAGENASE CLOSTRIDIUM)COLLAGENASE CLOSTRIDIUM	COLLAGENASE CLOSTRIDIUM	chembl:CHEMBL2108709	1.14
COL6A2	1292 ChEMBLInteractions	CHEMBL21(COLLAGENASE CLOSTRIDIUM)COLLAGENASE CLOSTRIDIUM	COLLAGENASE CLOSTRIDIUM	chembl:CHEMBL2108709	1.14
COL6A3	1293 ChEMBLInteractions	CHEMBL21(COLLAGENASE CLOSTRIDIUM)COLLAGENASE CLOSTRIDIUM	COLLAGENASE CLOSTRIDIUM	chembl:CHEMBL2108709	1.14
COL6A5	256076 ChEMBLInteractions	CHEMBL21(COLLAGENASE CLOSTRIDIUM)COLLAGENASE CLOSTRIDIUM	COLLAGENASE CLOSTRIDIUM	chembl:CHEMBL2108709	1.14
COL6A6	131873 ChEMBLInteractions	CHEMBL209OCRIPLASMIN	OCRIPLASMIN	chembl:CHEMBL2095222	0.86
COMT	1312 PharmGKB	fluvoxamine fluvoxamine	FLUVOXAMINE	chembl:CHEMBL814	0.31
COP1	64326 TTD	Flecainide Flecainide	FLECAINIDE	chembl:CHEMBL652	1.82
COQ2	27235 PharmGKB	atorvastatin atorvastatin	ATORVASTATIN	chembl:CHEMBL1487	1.06
COQ8B	79934 PharmGKB	Immunoglobulin G Immunoglobulins			
CORO7	79585 PharmGKB	methylphenidate methylphenidate	METHYLPHENIDATE	chembl:CHEMBL796	2.83
CORT	1325 NCI	GLUCAGON GLUCAGON	GLUCAGON	chembl:CHEMBL266481	12.73
CP	1356 NCI	DEXRAZOXINE DEXRAZOXANE	DEXRAZOXANE	chembl:CHEMBL1738	1.52
CPA1	1357 GuideToPharmacology inhibitor	252166827 COMPOUND 1B [PMID: 18078750]			
CPA2	1358 PharmGKB	asparaginase asparaginase	ASPARAGINASE	chembl:CHEMBL2108989	8.49
CPA6	57094 PharmGKB	metformin metformin	METFORMIN	chembl:CHEMBL1431	3.35
CPB1	1360 GuideToPharmacology inhibitor	252166875 COMPOUND 3 [PMID: 14640538]			
CPB2	1361 TTD	UK-396082 UK-396082	UK-396,082	chembl:CHEMBL398110	63.65
CPD	1362 NCI	ANTISERUM ANTISERUM			
CPM	1368 GuideToPharmacology inhibitor	252166875 COMPOUND 3 [PMID: 14640538]			
CPN1	1369 GuideToPharmacology inhibitor	252166856 SQ-24,798			
CPOX	1371 FDA	Givosiran Givosiran	GIVOSIRAN	chembl:CHEMBL4297760	42.43
CPS1	1373 PharmGKB	sodium phenylbutyrate sodium phenylbutyrate			
CPT1A	1374 TEND	PERHEXILINE PERHEXILINE	PERHEXILINE	chembl:CHEMBL75880	81.84
CPT1B	1375 TTD	Levacecarnin Levacecarnine hci			
CPT2	1376 TEND	PERHEXILINE PERHEXILINE	PERHEXILINE	chembl:CHEMBL75880	45.47
CR1	1378 PharmGKB	eculizumab eculizumab	ECULIZUMAB	chembl:CHEMBL1201828	21.22
CR2	1380 NCI	ADENOVIRUS ADENOVIRUS VECTOR			
CRABP2	1382 NCI	RETINOID RETINOID			
CRAT	1384 TdgClinicalTrial	PROPIONYL-L-CARNITINE PROPIONYL-L-CARNITINE			
CRBN	51185 ChEMBLInteraction inhibitor	CHEMBL434-POMALIDOMIDE	POMALIDOMIDE	chembl:CHEMBL43452	18.56
CREB1	1385 PharmGKB	citalopram citalopram	CITALOPRAM	chembl:CHEMBL549	1.4
CREBBP	1387 DTC	(-)-ROLIPRAM (-)-ROLIPRAM	(-)-ROLIPRAM	chembl:CHEMBL430893	1.06
CRH	1392 NCI	NALOXONE NALOXONE	NALOXONE	chembl:CHEMBL80	5.79
CRHBP	1393 PharmGKB	ethanol ethanol	ALCOHOL	chembl:CHEMBL545	1.48
CRHR1	1394 GuideToPharmacology antagonist	178100512 SSR125543A			
CRHR2	1395 NCI	INSULIN INSULIN	INSULIN	chembl:CHEMBL1201631	0.5
CRISPLD2	83716 PharmGKB	dexamethasone dexamethasone	DEXAMETHASONE	chembl:CHEMBL384467	1.52
CRKL	1399 CIViC	GEFITINIB GEFITINIB	GEFITINIB	chembl:CHEMBL939	0.94
CRLF2	64109 CIViC	JAK INHIBITOR JAK INHIBITOR I			
CRMP1	1400 NCI	METHIMAZOLE METHIMAZOLE	METHIMAZOLE	chembl:CHEMBL1515	7.07

CROT	54677 TdgClinicalTrial	PROPIONYLPROPIONYL-L-CARNITINE				
CRP	1401 PharmGKB	rosuvastatin	rosuvastatin	ROSUVASTATIN	chembl:CHEMBL1496	3.26
CRTC1	23373 ClarityFoundationClinical	XL765	XL765			
CRTC2	200186 ClarityFoundationClinical	PKI-587	PKI-587	GEDATOLISIB	chembl:CHEMBL592445	0.44
CRY1	1407 GuideToPharmacology	252166810	KL044			
CRYBG2	55057 PharmGKB	opioids	opioids			
CRYGD	1421 TTD	HE3235	HE3235	HE3235	chembl:CHEMBL3545237	15.91
CRYZ	1429 DTC	2'-HYDROX	2'-HYDROXYCHALCONE	2'-HYDROXYCHALCONE	chembl:CHEMBL32147	21.22
CSF1	1435 TTD	Emactuzumal	Emactuzumab	EMACTUZUMAB	chembl:CHEMBL3545370	15.91
CSF1R	1436 GuideToPharmac	inhibitor	178102292	CEDIRANIB	chembl:CHEMBL491473	0.05
CSF2	1437 NCI	NORDIHYD	NORDIHYDROGUAIARETIC ACID			
CSF2RA	1438 ChemblInteractio	agonist	CHEMBL12(SARGRAMOSTIM	SARGRAMOSTIM	chembl:CHEMBL1201670	47.74
CSF2RB	1439 TTD	TPI ASM8	TPI ASM8			
CSF3	1440 TdgClinicalTrial	TALABOST	TALABOSTAT	TALABOSTAT	chembl:CHEMBL67279	3.18
CSF3R	1441 TTD	Filgrastim-SN	Filgrastim-SNDZ	FILGRASTIM	chembl:CHEMBL1201567	8.27
CSH1	1442 NCI	MARIJUAN	MARIJUANA			
CSK	1445 GuideToPharmac	inhibitor	223365983	RIVOCERANIB	chembl:CHEMBL3186534	5.3
CSMD1	64478 PharmGKB	oxaliplatin	oxaliplatin	OXALIPLATIN	chembl:CHEMBL414804	1.72
CSNK1A1	1452 DTC	SP-600125	SP-600125	SP-600125	chembl:CHEMBL1725279	0.04
CSNK1D	1453 DTC	SB-203580	SB-203580	SB-203580	chembl:CHEMBL10	0.11
CSNK1E	1454 GuideToPharmac	inhibitor	310264697	UMBRALISIB	chembl:CHEMBL3948730	4.55
CSNK1G1	53944 GuideToPharmac	inhibitor	249565843	COMPOUND 33 [PMID: 19364658]		
CSNK1G2	1455 DTC	PHA-767491	PHA-767491	CHEMBL225519	chembl:CHEMBL225519	0.08
CSNK1G3	1456 DTC	TAK-715	TAK-715	TAK-715	chembl:CHEMBL363648	0.53
CSNK2A1	1457 GuideToPharmac	inhibitor	249565806	SILMITASERTIB	chembl:CHEMBL1230165	3.18
CSNK2A2	1459 TTD	US8791257,	US8791257, 17			
CSNK2A3	283106 PharmGKB	cisplatin	cisplatin	CISPLATIN	chembl:CHEMBL11359	0.88
CSPG4	1464 NCI	TPA	TPA	ALTEPLASE	chembl:CHEMBL1201593	6.7
CSRNP3	80034 PharmGKB	Bisphosphon	Bisphosphonates			
CSRP3	8048 PharmGKB	Tumor necro	Tumor necrosis factor alpha (TNF-alpha) inhibitors			
CST3	1471 NCI	DIGOXIN	DIGOXIN	DIGOXIN	chembl:CHEMBL1751	1.87
CST4	1472 NCI	ANTISERUM	ANTISERUM			
CST5	1473 PharmGKB	Tumor necro	Tumor necrosis factor alpha (TNF-alpha) inhibitors			
CTAG1B	1485 NCI	TUMOR AN	TUMOR ANTIGEN			
CTAG2	30848 CIViC	AUTOLOGO	AUTOLOGOUS ANTI-NY-ESO-1/LAGE-1 TCR-TRANSDUCED C259 T LYMPHOCYTES GSK3377794			
CTDSP1	58190 DTC	GNF-PF-306	GNF-PF-3060	CHEMBL581449	chembl:CHEMBL581449	3.35
CTF1	1489 TTD	Cardiotrophir	Cardiotrophin-1			
CTH	1491 PharmGKB	busulfan	busulfan	BUSULFAN	chembl:CHEMBL820	2.5
CTLA4	1493 TALC	antibody	TREMELIM	TREMELIMUMAB	chembl:CHEMBL2108658	21.22
CTNNA2	1496 PharmGKB	Tumor necro	Tumor necrosis factor alpha (TNF-alpha) inhibitors			
CTNNA3	29119 PharmGKB	antidepressan	antidepressants			
CTNNB1	1499 JAX-CKB	NVP-TNKS6	NVP-TNKS656			

CTNNBL1	56259 TTD	Beta-acetyldi;Beta-acetyldigoxin	ACETYLDIGOXIN	chembl:CHEMBL2074725	31.83
CTPS1	1503 TTD	CyclopentenyCyclopentenylcytosine			
CTRC	11330 TTD	AC1LCOK0 AC1LCOK0			
CTSA	5476 TTD	SAR164653 SAR164653			
CTSB	1508 TTD	DimethoxybeDimethoxybenzylidene-2-thio-imidazole-4-one derivative 1			
CTSC	1075 GuideToPharmac inhibitor	252166823 COMPOUND 3D [PMID: 3941405]			
CTSD	1509 NCI	STREPTOZCSTREPTOZOTOCIN	STREPTOZOCIN	chembl:CHEMBL1651906	2.77
CTSE	1510 GuideToPharmac inhibitor	178103180 COMPOUND 2 [PMID: 8410973]			
CTSF	8722 TTD	PMID279982PMID27998201-Compound-12			
CTSG	1511 TTD	JNJ-1031179.JNJ-10311795	CHEMBL374027	chembl:CHEMBL374027	10.61
CTSH	1512 GuideToPharmac inhibitor	336446936 COMPOUND 1E [PMID: 27285276]			
CTSK	1513 TTD	PMID253997PMID25399719-Compound-17			
CTSL	1514 TTD	PMID279982PMID27998201-Compound-6			
CTSO	1519 ChemblInteractio inhibitor	CHEMBL481ODANACATIB	ODANACATIB	chembl:CHEMBL481611	15.91
CTSS	1520 TTD	PMID279982PMID27998201-Compound-7			
CTSV	1515 GuideToPharmac inhibitor	252166762 CITIBRASINE	CITIBRASINE	chembl:CHEMBL1668599	31.83
CTSZ	1522 GuideToPharmac inhibitor	178103092 ODANACATIB	ODANACATIB	chembl:CHEMBL481611	15.91
CUBN	8029 NCI	ANTISERUMANTISERUM			
CUL4A	8451 ChemblInteractio inhibitor	CHEMBL848LENALIDOMIDE	LENALIDOMIDE	chembl:CHEMBL848	1.52
CUX2	23316 PharmGKB	rifampin rifampin	RIFAMPIN	chembl:CHEMBL374478	3.03
CX3CL1	6376 NCI	COMPLETE COMPLETE FREUND&APOS;S ADJUVANT			
CX3CR1	1524 GuideToPharmac agonist	178100560 [125I]CX3CL1 (HUMAN)			
CXCL10	3627 NCI	RITONAVIRRITONAVIR	RITONAVIR	chembl:CHEMBL163	0.53
CXCL12	6387 PharmGKB	fludarabine fludarabine	FLUDARABINE	chembl:CHEMBL1568	0.91
CXCL13	10563 PharmGKB	rituximab rituximab	RITUXIMAB	chembl:CHEMBL1201576	9.09
CXCL2	2920 NCI	BCG BCG	BCG VACCINE	wikidata:Q798309	2.12
CXCL5	6374 PharmGKB	hmg coa reduhmg coa reductase inhibitors			
CXCL8	3576 NCI	METHIMAZMETHIMAZOLE	METHIMAZOLE	chembl:CHEMBL1515	0.13
CXCR1	3577 GuideToPharmac allosteric	252166706 REPARIXIN	REPARIXIN	chembl:CHEMBL191413	19.1
CXCR2	3579 GuideToPharmac agonist	178100555 [125I]CXCL5 (HUMAN)			
CXCR3	2833 GuideToPharmac agonist	178100556 [125I]CXCL10 (HUMAN)			
CXCR4	7852 TALC	antagonistLY 2510924 LY 2510924			
CXCR5	643 TTD	SAR113244 SAR113244			
CXCR6	10663 GuideToPharmac agonist	178100558 [125I]CXCL16 (HUMAN)			
CXXC4	80319 PharmGKB	Platinum conPlatinum compounds			
CYB5R1	51706 PharmGKB	primaquine primaquine	PRIMAQUINE	chembl:CHEMBL506	2.65
CYB5R2	51700 PharmGKB	primaquine primaquine	PRIMAQUINE	chembl:CHEMBL506	2.65
CYB5R3	1727 PharmGKB	methylene bltmethylene blue			
CYB5R4	51167 PharmGKB	rasburicase rasburicase	RASBURICASE	chembl:CHEMBL1201594	4.24
CYBA	1535 PharmGKB	simvastatin simvastatin	SIMVASTATIN	chembl:CHEMBL1064	0.79
CYBB	1536 DTC	APIGENIN APIGENIN	APIGENIN	chembl:CHEMBL28	1.57
CYCSP5	360158 PharmGKB	allopurinol allopurinol	ALLOPURINOL	chembl:CHEMBL1467	3.29

CYP11A1	1583 TTD	Aminogluteth:Aminoglutethimide	AMINOGLUTETHIMIDE	chembl:CHEMBL488	22.73
CYP11B1	1584 ChEMBLInteraction inhibitor	CHEMBL167:MITOTANE	MITOTANE	chembl:CHEMBL1670	5.97
CYP11B2	1585 PharmGKB	benazepril benazepril	BENAZEPRIL	chembl:CHEMBL838	3.03
CYP17A1	1586 GuideToPharmac inhibitor	252166838 GALETERONE	GALETERONE	chembl:CHEMBL2105738	13.64
CYP19A1	1588 TTD	BGS-649 BGS-649			
CYP1A1	1543 NCI	POLYPHENOLPOLYPHENOL			
CYP1A2	1544 DTC	DEXPROPR.DEXPROPRANOLOL	DEXPROPRANOLOL	chembl:CHEMBL275742	0.03
CYP1B1	1545 NCI	AMINOGLUAMINOGLUTETHIMIDE	AMINOGLUTETHIMIDE	chembl:CHEMBL488	0.65
CYP20A1	57404 NCI	MBC MBC			
CYP24A1	1591 PharmGKB	tenofovir disctenofovir disoproxil fumarate			
CYP26A1	1592 TdgClinicalTrial	LIARAZOLELIARAZOLE	LIARAZOLE	chembl:CHEMBL389433	21.22
CYP26B1	56603 TdgClinicalTrial	TALAROZOTALAROZOLE	TALAROZOLE	chembl:CHEMBL459505	15.91
CYP26C1	340665 TdgClinicalTrial	TALAROZOTALAROZOLE	TALAROZOLE	chembl:CHEMBL459505	15.91
CYP27A1	1593 NCI	HORMONESHORMONES			
CYP27B1	1594 DTC	20S-HYDRO20S-HYDROXYVITAMIN E	CHEMBL2036072	chembl:CHEMBL2036072	31.83
CYP2A13	1553 PharmGKB	nicotine nicotine	NICOTINE	chembl:CHEMBL3	1.3
CYP2A6	1548 PharmGKB	artesunate artesunate	ARTESUNATE	chembl:CHEMBL361497	3.03
CYP2A7P1	1550 PharmGKB	methadone methadone	METHADONE	chembl:CHEMBL651	4.55
CYP2B6	1555 PharmGKB	artemisinin artemisinin	ARTEMISININ	chembl:CHEMBL567597	0.56
CYP2C18	1562 GuideToPharmac inhibitor	252827490 COMPOUND 9 [PMID: 11606127]			
CYP2C19	1557 DTC	BIOCHANINBIOCHANIN	BIOCHANIN	chembl:CHEMBL131921	0.02
CYP2C8	1558 PharmGKB	rucaparib rucaparib	RUCAPARIB	chembl:CHEMBL1173055	0.07
CYP2C9	1559 DTC	CYTARABINCYTARABINE	CYTARABINE	chembl:CHEMBL803	0.01
CYP2D6	1565 DTC	FLUNISOLIIFLUNISOLIDE	FLUNISOLIDE	chembl:CHEMBL1512	0.02
CYP2E1	1571 NCI	ISOFLAVONISOFLAVONE	ISOFLAVONE	chembl:CHEMBL366460	1.84
CYP2F1	1572 PharmGKB	imatinib imatinib	IMATINIB	chembl:CHEMBL941	1.99
CYP2J2	1573 PharmGKB	terfenadine terfenadine	TERFENADINE	chembl:CHEMBL17157	1.27
CYP2R1	120227 PharmGKB	ribavirin ribavirin	RIBAVIRIN	chembl:CHEMBL1643	0.96
CYP3A4	1576 PharmGKB	oxazepam oxazepam	OXAZEPAM	chembl:CHEMBL568	0
CYP3A43	64816 NCI	GINKGO GINKGO	GINKGO	chembl:CHEMBL2108466	9.09
CYP3A5	1577 PharmGKB	fluticasone prfluticasone propionate			
CYP3A7	1551 TdgClinicalTrial	TESMILIFENTESMILIFENE	TESMILIFENE	chembl:CHEMBL26424	0.91
CYP46A1	10858 TTD	PMID255149PMID25514969-Compound-8			
CYP4A11	1579 PharmGKB	amiloride amiloride	AMILORIDE	chembl:CHEMBL945	2.27
CYP4B1	1580 PharmGKB	thalidomide thalidomide	THALIDOMIDE	chembl:CHEMBL468	1.82
CYP4F11	57834 PharmGKB	warfarin warfarin	WARFARIN	chembl:CHEMBL1464	3.54
CYP4F2	8529 PharmGKB	anthracycline anthracyclines and related substances			
CYP51A1	1595 GuideToPharmac inhibitor	252827457 AZALANSTAT	AZALANSTAT	chembl:CHEMBL70611	15.91
CYP7A1	1581 PharmGKB	cholic acid cholic acid			
CYP7B1	9420 NCI	DIAZOXIDEDIAZOXIDE	DIAZOXIDE	chembl:CHEMBL181	0.98
CYSLTR1	10800 GuideToPharmac antagonist	178100370 MONTELUKAST	MONTELUKAST	chembl:CHEMBL787	2.78
CYSLTR2	57105 GuideToPharmac agonist	135651514 LTE4			

CYTH2	9266 DTC	CLOTRIMAZOLE	CLOTRIMAZOLE	chembl:CHEMBL104	1.82
DAGLA	747 GuideToPharmac	inhibitor 381744928 LEI105			
DAGLB	221955 GuideToPharmac	inhibitor 178101939 RHC80267			
DAO	1610 DTC	5-CARBOXY-5-CARBOXYFURO[3,2-B]P	CHEMBL492591	chembl:CHEMBL492591	31.83
DAOA	267012 PharmGKB	methamphetamine	METHAMPHETAMINE	chembl:CHEMBL1201201	4.9
DAPK1	1612 GuideToPharmac	inhibitor 135652717 STAUROSPORINE	STAUROSPORINE	chembl:CHEMBL388978	0.76
DAPK3	1613 DTC	AST-487	AST-487	chembl:CHEMBL574738	0.1
DBH	1621 PharmGKB	Antiinflamm	Antiinflammatory agents, non-steroids		
DBI	1622 NCI	HORMONES	HORMONES		
DBP	1628 NCI	ALBUMIN	ALBUMIN HUMAN	chembl:CHEMBL1201451	8.49
DCAF4	26094 PharmGKB	corticosteroid	corticosteroids		
DCBLD1	285761 PharmGKB	cisplatin	cisplatin	CISPLATIN	chembl:CHEMBL11359
DCK	1633 PharmGKB	idarubicin	idarubicin	IDARUBICIN	chembl:CHEMBL1117
DCLK1	9201 DTC	TAE-684	TAE-684	TAE-684	chembl:CHEMBL509032
DCLK2	166614 GuideToPharmac	inhibitor 249565737 XMD8-92			
DCLK3	85443 GuideToPharmac	inhibitor 249565888 COMPOUND 5N [PMID: 20483621]			
DCN	1634 NCI	IFN	IFN		
DCPS	28960 TTD	RG3039	RG3039		
DCT	1638 NCI	FUNGIZONE	FUNGIZONE	AMPHOTERICIN B	chembl:CHEMBL267345
DCTD	1635 PharmGKB	gemcitabine	gemcitabine	GEMCITABINE	chembl:CHEMBL888
DDAH1	23576 GuideToPharmac	inhibitor 252827487 COMPOUND 2E [PMID: 19013076]			
DDB1	1642 ChemblInteractio	inhibitor CHEMBL468 THALIDOMIDE	THALIDOMIDE	chembl:CHEMBL468	0.61
DDC	1644 TTD	Benserazide	Benserazide	BENSERAZIDE	chembl:CHEMBL1096979
DDHD1	80821 PharmGKB	warfarin	warfarin	WARFARIN	chembl:CHEMBL1464
DDIT3	1649 NCI	FENRETININE	FENRETINIDE	FENRETINIDE	chembl:CHEMBL7301
DDIT4	54541 TTD	PF-04523655	PF-04523655		
DDO	8528 PharmGKB	topotecan	topotecan	TOPOTECAN	chembl:CHEMBL84
DDR1	780 GuideToPharmac	inhibitor 381118865 RIPK1 INHIBITOR 22B			
DDR2	4921 CIViC	ERLOTINIB	ERLOTINIB	ERLOTINIB	chembl:CHEMBL553
DDR GK1	65992 PharmGKB	azathioprine	azathioprine	AZATHIOPRINE	chembl:CHEMBL1542
DDX43	55510 CIViC	MEK INHIBITOR	MEK INHIBITOR PD0325901		
DDX5	1655 TTD	RX-5902	RX-5902		
DEFA1	1667 NCI	CORTISOL	CORTISOL	HYDROCORTISONE	chembl:CHEMBL389621
DEFA4	1669 NCI	CYTOKINES	CYTOKINES		
DEFA5	1670 NCI	SALT	SALT	VOLANESORSEN SODIUM	chembl:CHEMBL3544989
DEGS1	8560 GuideToPharmac	inhibitor 252827536 RBM2-1B			
DEPTOR	64798 MyCancerGenom	inhibitor OSI-027	OSI-027	OSI-027	chembl:CHEMBL3120215
DES	1674 NCI	TPA	TPA	ALTEPLASE	chembl:CHEMBL1201593
DFFB	1677 NCI	CURCUMIN	CURCUMIN	CURCUMIN	chembl:CHEMBL116438
DGAT1	8694 TTD	Pyrazolo[1,5-Pyrazolo[1,5-a]pyrimidine derivative 29			
DGAT2	84649 TTD	Vitamin B3	Vitamin B3		
DGKB	1607 PharmGKB	antipsychotic:	antipsychotics		

DHCR24	1718 TTD	T-226293	T-226293			
DHCR7	1717 PharmGKB	cholic acid	cholic acid			
DHFR	1719 TdgClinicalTrial	10-PROPAR(10-PROPARGYL-10-DEAZA/PRALATREXATE			chembl:CHEMBL1201746	7.96
DHODH	1723 DTC	LEFLUNOMLEFLUNOMIDE	LEFLUNOMIDE		chembl:CHEMBL960	25.2
DHPS	1725 NCI	DEOXYSPIDEOXYSPERGUALIN				
DHRS9	10170 DTC	(+)-ISOZON(+)-ISOZONARONE		CHEMBL459574	chembl:CHEMBL459574	18.19
DHX36	170506 DTC	MANOALIDMANOALIDE		MANOALIDE	chembl:CHEMBL463914	63.65
DIABLO	56616 NCI	CEPHALOS`CEPHALOSTATIN				
DIAPH3	81624 PharmGKB	hydrochlorotlhydrochlorothiazide		HYDROCHLOROTHIAZIDE	chembl:CHEMBL435	1.77
DIO1	1733 ChemblInteractioinhibitor	CHEMBL151PROPYLTHIOURACIL		PROPYLTHIOURACIL	chembl:CHEMBL1518	7.49
DKC1	1736 TdgClinicalTrial	V934/V935 V934/V935				
DKK1	22943 CIViC	FLUOROURFLUOROURACIL		FLUOROURACIL	chembl:CHEMBL185	0.2
DKK3	27122 TTD	REIC gene thREIC gene therapy				
DLG4	1742 NCI	L-DOPA L-DOPA		LEVODOPA	chembl:CHEMBL1009	1.72
DLG5	9231 PharmGKB	capecitabine capecitabine		CAPECITABINE	chembl:CHEMBL1773	0.88
DLK1	8788 TTD	GDC0134 GDC0134				
DLL3	10683 TTD	AMG 119 AMG 119				
DLL4	54567 TALC	antibody REGN421 REGN421				
DMD	1756 TTD	Ataluren Ataluren		ATALUREN	chembl:CHEMBL256997	7.07
DMPK	1760 GuideToPharmacinhibitor	249565832 RKI-1447				
DNAH8	1769 TTD	LYC-30937 LYC-30937				
DNAJB1	3337 NCI	HSP70 HSP70				
DNASE1L3	1776 TTD	CyclopropylaCyclopropylamine derivative 11				
DNER	92737 TTD	Pyrimido-indPyrimido-indole derivative 1				
DNMT1	1786 TTD	GuadecitabinGuadecitabine		GUADECITABINE	chembl:CHEMBL3544916	2.36
DNMT3A	1788 TTD	PMID273765PMID27376512-Compound-MTC-423				
DNMT3B	1789 TTD	PMID273765PMID27376512-Compound-MTC-423				
DNMT3L	29947 TTD	PMID273765PMID27376512-Compound-Figure2aExample1				
DNPEP	23549 GuideToPharmacinhibitor	252166877 COMPOUND 9 [PMID: 1738140]				
DNTT	1791 NCI	HYDROXYUHYDROXYUREA		HYDROXYUREA	chembl:CHEMBL467	2.27
DOCK10	55619 NCI	INTERLEUKINTERLEUKIN-4				
DOCK8	81704 PharmGKB	carboplatin carboplatin		CARBOPLATIN	chembl:CHEMBL1351	0.81
DOK5	55816 PharmGKB	dexamethasoidexamethasone		DEXAMETHASONE	chembl:CHEMBL384467	0.15
DOT1L	84444 GuideToPharmacinhibitor	178103597 BROMO-DEAZA-SAH				
DPEP1	1800 TEND	CILASTATIFCILASTATIN		CILASTATIN	chembl:CHEMBL766	275.82
DPP4	1803 ChemblInteractioinhibitor	CHEMBL21(OMARIGLIPTIN		OMARIGLIPTIN	chembl:CHEMBL2105762	3.82
DPP6	1804 PharmGKB	ethanol ethanol		ALCOHOL	chembl:CHEMBL545	0.74
DPP7	29952 TTD	CRWCYVOICRWYVOHVXAEMF-LBPRGKRZSA-N				
DPP8	54878 GuideToPharmacinhibitor	178103150 COMPOUND 18 [PMID: 15664838]				
DPP9	91039 TTD	Talabostat Talabostat		TALABOSTAT	chembl:CHEMBL67279	12.73
DPYD	1806 FDA	Capecitabine Capecitabine		CAPECITABINE	chembl:CHEMBL1773	0.98
DPYS	1807 PharmGKB	fluorouracil fluorouracil		FLUOROURACIL	chembl:CHEMBL185	0.4

DPYSL2	1808 TdgClinicalTrial	LACOSAMILACOSAMIDE	ERLOSAMIDE	chembl:CHEMBL58323	10.61
DPYSL3	1809 NCI	METHIMAZMETHIMAZOLE	METHIMAZOLE	chembl:CHEMBL1515	7.07
DRAM1	55332 NCI	CISPLATIN CISPLATIN	CISPLATIN	chembl:CHEMBL11359	0.88
DRD1	1812 DTC	PROMAZINIPROMAZINE	PROMAZINE	chembl:CHEMBL564	0.11
DRD2	1813 TdgClinicalTrial	ASENAPINEASENAPINE	ASENAPINE	chembl:CHEMBL3187365	0.11
DRD3	1814 PharmGKB	methampheta methamphetamine	METHAMPHETAMINE	chembl:CHEMBL1201201	0.06
DRD4	1815 ChemblInteractio antagonist	CHEMBL12(LOXAPINE SUCCINATE	LOXAPINE SUCCINATE	chembl:CHEMBL1201155	0.17
DRD5	1816 GuideToPharmac agonist	135650737 N-PROPYLNORAPOMORPHINE			
DROSHA	29102 PharmGKB	daunorubicin daunorubicin	DAUNORUBICIN	chembl:CHEMBL178	0.28
DSCAM	1826 PharmGKB	carboplatin carboplatin	CARBOPLATIN	chembl:CHEMBL1351	0.81
DSE	29940 PharmGKB	abiraterone abiraterone	ABIRATERONE	chembl:CHEMBL254328	6.37
DSG1	1828 NCI	PD-98059 PD-98059	CHEMBL35482	chembl:CHEMBL35482	3.44
DSG3	1830 TdgClinicalTrial	DESMOGLEDESMOGLEIN-3			
DSP	1832 NCI	ENALAPRILENALAPRIL	ENALAPRIL	chembl:CHEMBL578	6.37
DTNBP1	84062 PharmGKB	methampheta methamphetamine	METHAMPHETAMINE	chembl:CHEMBL1201201	1.22
DTYMK	1841 NCI	5-FU 5-FU	FLUOROURACIL	chembl:CHEMBL185	0.3
DUOX2	50506 GuideToPharmac inhibitor	363894227 NSC 780521			
DUSP1	1843 TTD	Avastin+/-Ta:Avastin+/-Tarceva			
DUSP3	1845 DTC	LOMOFUNCLOMOFUNGIN	LOMOFUNGIN	chembl:CHEMBL1505471	0.61
DUSP6	1848 NCI	DIMETHYL DIMETHYL SULFOXIDE			
DUT	1854 TTD	TAS-114 TAS-114			
DYNC2H1	79659 PharmGKB	Platinum cor:Platinum compounds			
DYRK1A	1859 TTD	PMID287663PMID28766366-Compound-Scheme1 WO2011135259			
DYRK1B	9149 DTC	RG-1530 RG-1530	RG-1530	chembl:CHEMBL1980391	0.06
DYRK2	8445 TTD	PMID287663PMID28766366-Compound-Scheme21Left			
DYRK3	8444 DTC	SORAFENIBSORAFENIB	SORAFENIB	chembl:CHEMBL1336	0.07
DYRK4	8798 GuideToPharmac inhibitor	249565847 LEUCETTINE L41			
E2F1	1869 NCI	GP-120 GP-120			
E2F7	144455 PharmGKB	tamoxifen tamoxifen	TAMOXIFEN	chembl:CHEMBL83	2.16
EBP	10682 TTD	SR-31747 SR-31747			
ECE1	1889 GuideToPharmac inhibitor	178103120 DAGLUTRIL	DAGLUTRIL	chembl:CHEMBL3989794	15.91
ECE2	9718 GuideToPharmac inhibitor	252166873 COMPOUND 1 [PMID: 18507370]			
ECT2L	345930 PharmGKB	anthracycline anthracyclines and related substances			
EDA2R	60401 GuideToPharmacology	178102764 ECTODYSPLASIN A2			
EDAR	10913 GuideToPharmacology	178102765 ECTODYSPLASIN A1			
EDN1	1906 PharmGKB	muraglitazar muraglitazar	MURAGLITAZAR	chembl:CHEMBL186179	1.77
EDN3	1908 NCI	HUMAN CHHUMAN CHORIONIC GONADOTROPIN			
EDNRA	1909 GuideToPharmac antagonist	178100518 ZIBOTENTAN	ZIBOTENTAN	chembl:CHEMBL1628688	14.14
EDNRB	1910 NCI	PACLITAXEPACLITAXEL	PACLITAXEL	chembl:CHEMBL428647	0.13
EED	8726 TTD	MAK683 MAK683			
EEF1A1	1915 DTC	SPARSOMY SPARSOMYCIN	SPARSOMYCIN	chembl:CHEMBL2303630	127.3
EEF2	1938 TdgClinicalTrial	SS1(DSFV)-ISS1(DSFV)-PE38			

EEF2K	29904 TTD	Lapatinib	Lapatinib	LAPATINIB	chembl:CHEMBL554	2.36
EGF	1950 PharmGKB	cetuximab	cetuximab	CETUXIMAB	chembl:CHEMBL1201577	3.45
EGFL7	51162 TTD	MEGF0444	MEGF0444	PARSATUZUMAB	chembl:CHEMBL2109387	190.95
EGFR	1956 TTD	AMG 595	AMG 595			
EGLN1	54583 DTC	L-4-THIOPR	L-4-THIOPROLINE	CHEMBL1800368	chembl:CHEMBL1800368	7.96
EGLN2	112398 TTD	BAY-85-393	BAY-85-3934			
EGLN3	112399 GuideToPharmac	inhibitor	252827454 COMPOUND 6EE [PMID: 22364528]			
EGR1	1958 DTC	GENIPIN	GENIPIN	GENIPIN	chembl:CHEMBL459016	127.3
EGR2	1959 NCI	RETINOIC	RETINOIC ACID			
EHMT1	79813 GuideToPharmac	inhibitor	249565918 A-366			
EHMT2	10919 DTC	LISINOPRIL	LISINOPRIL HYDRATE	LISINOPRIL HYDRATE	chembl:CHEMBL1729579	0.04
EIF2AK1	27102 GuideToPharmac	inhibitor	381118865 RIPK1 INHIBITOR 22B			
EIF2AK2	5610 NCI	RICIN	RICIN			
EIF2AK3	9451 TTD	Indoline deriv	Indoline derivative 7			
EIF2AK4	440275 PharmGKB	olanzapine	olanzapine	OLANZAPINE	chembl:CHEMBL715	0.31
EIF2B1	1967 NCI	WORTMAN	WORTMANNIN	WORTMANNIN	chembl:CHEMBL428496	3.54
EIF2S1	1965 NCI	STAUROSP	STAUROSPORINE	STAUROSPORINE	chembl:CHEMBL388978	3.03
EIF3A	8661 PharmGKB	Platinum con	Platinum compounds			
EIF4A1	1973 DTC	SILVESTRO	SILVESTROL	SILVESTROL	chembl:CHEMBL555196	63.65
EIF4E	1977 NCI	ETOPOSIDE	ETOPOSIDE	ETOPOSIDE	chembl:CHEMBL44657	0.82
EIF4EBP1	1978 NCI	PACLITAXE	PACLITAXEL	PACLITAXEL	chembl:CHEMBL428647	1.31
EIF4G1	1981 NCI	INSULIN	INSULIN	INSULIN	chembl:CHEMBL1201631	2.5
EIF4H	7458 DTC	GNF-PF-461	GNF-PF-4618	CHEMBL585964	chembl:CHEMBL585964	31.83
EIF5A	1984 TdgClinicalTrial	SNS01-T	SNS01-T			
ELANE	1991 TTD	2-pyrazinone	2-pyrazinone derivative 2			
ELAVL1	1994 DTC	DEHYDROM	DEHYDROMUTACTIN	DEHYDROMUTACTIN	chembl:CHEMBL1242196	63.65
ELK1	2002 NCI	DHPG	DHPG			
ELN	2006 TdgClinicalTrial	PRT-201	PRT-201	VONAPANITASE	chembl:CHEMBL3545070	127.3
ELP5	23587 PharmGKB	methylphenid	methylphenidate	METHYLPHENIDATE	chembl:CHEMBL796	2.83
EML4	27436 JAX-CKB	TAE226	TAE226			
EMP1	2012 NCI	GEFITINIB	GEFITINIB	GEFITINIB	chembl:CHEMBL939	1.87
EMP2	2013 NCI	HORMONES	HORMONES			
ENG	2022 GuideToPharmac	antibody	315661183 CAROTUXIMAB	CAROTUXIMAB	chembl:CHEMBL2109321	127.3
ENO2	2026 NCI	NERVE GRC	NERVE GROWTH FACTOR			
ENOSF1	55556 PharmGKB	fluorouracil	fluorouracil	FLUOROURACIL	chembl:CHEMBL185	0.73
ENPEP	2028 TTD	QGC-001	QGC-001			
ENPP2	5168 GuideToPharmac	inhibitor	315661229 EXAMPLE 2 [WO2013054185]			
ENPP3	5169 TTD	AGS-16C3F	AGS-16C3F			
ENTPD1	953 GuideToPharmac	inhibitor	315661108 PSB-0963	CHEMBL608559	chembl:CHEMBL608559	63.65
ENTPD2	954 GuideToPharmac	inhibitor	315661118 PSB-6426	CHEMBL469212	chembl:CHEMBL469212	63.65
EP300	2033 GuideToPharmac	inhibitor	178103579 CURCUMIN	CURCUMIN	chembl:CHEMBL116438	0.13
EPAS1	2034 DTC	PUUPEHEN	PUUPEHENONE	PUUPEHENONE	chembl:CHEMBL157844	21.22

EPB41	2035 PharmGKB	bupropion	bupropion	BUPROPION	chembl:CHEMBL894	1.87
EPCAM	4072 TdgClinicalTrial	VB4-845	VB4-845	OPORTUZUMAB MONATOX	chembl:CHEMBL1743052	15.91
EPHA1	2041 GuideToPharmac	inhibitor	249565804 COMPOUND 20 [PMID: 23489211]			
EPHA10	284656 ChemblInteractio	inhibitor	CHEMBL24{VANDETANIB	VANDETANIB	chembl:CHEMBL24828	1.18
EPHA2	1969 DoCM		DASATINIB DASATINIB	DASATINIB	chembl:CHEMBL1421	0.64
EPHA3	2042 GuideToPharmac	inhibitor	249565850 COMPOUND 8H [PMID: 21561767]			
EPHA4	2043 ChemblInteractio	inhibitor	CHEMBL24{VANDETANIB	VANDETANIB	chembl:CHEMBL24828	1.18
EPHA5	2044 GuideToPharmac	inhibitor	249565821 COMPOUND 66 [PMID: 19788238]			
EPHA6	285220 DTC	inhibitor	HESPERADIHESPERADIN	HESPERADIN	chembl:CHEMBL514409	0.8
EPHA7	2045 DTC	inhibitor	HESPERADIHESPERADIN	HESPERADIN	chembl:CHEMBL514409	0.8
EPHA8	2046 NCI		GENISTEIN GENISTEIN	GENISTEIN	chembl:CHEMBL44	1.18
EPHB1	2047 ChemblInteractio	inhibitor	CHEMBL24{VANDETANIB	VANDETANIB	chembl:CHEMBL24828	0.39
EPHB2	2048 TTD		MK-8353 MK-8353	MK-8353	chembl:CHEMBL3545001	7.07
EPHB3	2049 ChemblInteractio	inhibitor	CHEMBL24{VANDETANIB	VANDETANIB	chembl:CHEMBL24828	1.18
EPHB4	2050 ChemblInteractio	inhibitor	CHEMBL35{TESEVATINIB	TESEVATINIB	chembl:CHEMBL3544983	13.64
EPHB6	2051 ChemblInteractio	inhibitor	CHEMBL24{VANDETANIB	VANDETANIB	chembl:CHEMBL24828	1.18
EPHX1	2052 PharmGKB		docetaxel docetaxel	DOCETAXEL	chembl:CHEMBL92	0.23
EPHX2	2053 GuideToPharmac	inhibitor	178101928 PF750			
EPM2A	7957 PharmGKB		olanzapine olanzapine	OLANZAPINE	chembl:CHEMBL715	0.27
EPO	2056 NCI		ALPHA INTIALPHA INTERFERON	CETUXIMAB	chembl:CHEMBL1201577	1.48
EPOR	2057 TEND		METHOXY IMETHOXY POLYETHYLENE GLYCOL-EPOETIN BETA			
EPRS1	2058 TdgClinicalTrial		HALOFUGINHALOFUGINONE	HALOFUGINONE	chembl:CHEMBL1197091	21.22
ERAP1	51752 DTC		TCMDC-124TCMDC-124377	CHEMBL531269	chembl:CHEMBL531269	3.54
ERAP2	64167 GuideToPharmac	inhibitor	348353642 COMPOUND 3V [PMID: 27390066]			
ERBB2	2064 NCI		EMODIN EMODIN	EMODIN	chembl:CHEMBL289277	0.03
ERBB3	2065 GuideToPharmac	antibody	252827373 ELGEMTUMAB	ELGEMTUMAB	chembl:CHEMBL4298013	2.12
ERBB4	2066 PharmGKB		paliperidone paliperidone	PALIPERIDONE	chembl:CHEMBL1621	0.37
ERCC1	2067 CIViC		PACLITAXEPACLITAXEL	PACLITAXEL	chembl:CHEMBL428647	0.15
ERCC2	2068 CIViC		CARBOPLA CARBOPLATIN	CARBOPLATIN	chembl:CHEMBL1351	0.16
ERCC3	2071 PharmGKB		Platinum cor:Platinum compounds			
ERCC4	2072 PharmGKB		Platinum cor:Platinum compounds			
ERCC5	2073 PharmGKB		platinum platinum	PLATINUM	chembl:CHEMBL1235478	9.09
ERCC6	2074 NCI		CSA CSA	CYCLOSPORINE	chembl:CHEMBL160	1.03
EREG	2069 PharmGKB		cetuximab cetuximab	CETUXIMAB	chembl:CHEMBL1201577	2.22
ERG	2078 DTC		MMV009085MMV009085	CHEMBL581225	chembl:CHEMBL581225	0.38
ERICH3	127254 PharmGKB		citalopram citalopram	CITALOPRAM	chembl:CHEMBL549	1.87
ERN1	2081 GuideToPharmac	inhibitor	249565809 COMPOUND 34 [PMID: 24749861]			
ERRF11	54206 CIViC		ERLOTINIB ERLOTINIB	ERLOTINIB	chembl:CHEMBL553	2.6
ESR1	2099 TTD		Premarin/Pra:Premarin/Pravachol			
ESR2	2100 TTD		VG-101 VG-101			
ESRRA	2101 TTD		D-5519 D-5519			
ESRRB	2103 GuideToPharmac	agonist	135649858 DAIDZEIN	DAIDZEIN	chembl:CHEMBL8145	0.92

ESRRG	2104 NCI	DES	DES	DIETHYLSTILBESTROL	chembl:CHEMBL411	1.82
ESYT2	57488 PharmGKB	methylphenidmethylphenidate		METHYLPHENIDATE	chembl:CHEMBL796	2.83
ETFDH	2110 PharmGKB	methylphenidmethylphenidate		METHYLPHENIDATE	chembl:CHEMBL796	2.83
ETS2	2114 TTD	TK216	TK216			
ETV1	2115 CIViC	TRAMETINITRAMETINIB		TRAMETINIB	chembl:CHEMBL2103875	3.03
ETV4	2118 CIViC	TRAMETINITRAMETINIB		TRAMETINIB	chembl:CHEMBL2103875	3.03
ETV5	2119 CIViC	TRAMETINITRAMETINIB		TRAMETINIB	chembl:CHEMBL2103875	3.03
ETV6	2120 JAX-CKB	AZD4547	AZD4547			
EWSR1	2130 CIViC	SUNITINIB	SUNITINIB	SUNITINIB	chembl:CHEMBL535	3.18
EXO1	9156 PharmGKB	capecitabine	capecitabine	CAPECITABINE	chembl:CHEMBL1773	0.88
EYA2	2139 DTC	NSC-127133	NSC-127133	CHEMBL1172911	chembl:CHEMBL1172911	0.71
EYS	346007 PharmGKB	HMG CoA reHMG CoA reductase inhibitors, other combinations				
EZH1	2145 GuideToPharmac inhibitor	249565920	GSK343			
EZH2	2146 TTD	GSK2816126	GSK2816126			
EZR	7430 NCI	TNF-ALPHA	TNF-ALPHA			
F10	2159 TTD	Apixaban	Apixaban	APIXABAN	chembl:CHEMBL231779	5.79
F11	2160 TdgClinicalTrial	ANTITHROMANTITHROMBIN				
F12	2161 TdgClinicalTrial	ANTITHROMANTITHROMBIN				
F13A1	2162 PharmGKB	photodynamic therapy	photodynamic therapy			
F13B	2165 TTD	NN1841	NN1841			
F2	2147 TTD	Anisindione	Anisindione	ANISINDIONE	chembl:CHEMBL712	0.35
F2R	2149 ChemblInteraction inhibitor	CHEMBL201RIGOSERTIB SODIUM		RIGOSERTIB SODIUM	chembl:CHEMBL2013119	3.98
F2RL1	2150 DTC	ERYTHROMERYTHROMYCIN		ERYTHROMYCIN	chembl:CHEMBL532	0.71
F2RL2	2151 TdgClinicalTrial	VORAPAXAVORAPAXAR		VORAPAXAR	chembl:CHEMBL493982	10.61
F2RL3	9002 GuideToPharmac antagonist	381744952	RAG8			
F3	2152 TTD	ALT-836	ALT-836			
F5	2153 PharmGKB	drotrecogin	aldrotrecogin alfa			
F7	2155 TTD	Vatreptacog	αVatreptacog alfa (activated)			
F8	2157 NCI	C5A	C5A			
F9	2158 ChemblInteractions	CHEMBL38EMICIZUMAB		EMICIZUMAB	chembl:CHEMBL3833393	27.85
FAAH	2166 TTD	Azetidine ure	Azetidine urea derivative 3			
FAAH2	158584 GuideToPharmac inhibitor	310264767	LY2077855			
FABP1	2168 TTD	FENOFIBRIC	FENOFIBRIC ACID			
FABP3	2170 GuideToPharmac inhibitor	252827455	COMPOUND 13 [PMID: 17502136]			
FABP4	2167 TTD	PMID271095	PMID27109571-Compound-25			
FABP5	2171 TTD	PMID271095	PMID27109571-Compound-30			
FADD	8772 NCI	FAS LIGANIFAS LIGAND				
FAM177A1	283635 PharmGKB	lithium	lithium	LITHIUM	chembl:CHEMBL2146126	2.77
FAM178B	51252 PharmGKB	lithium	lithium	LITHIUM	chembl:CHEMBL2146126	2.77
FANCA	2175 CIViC	CISPLATIN	CISPLATIN	CISPLATIN	chembl:CHEMBL11359	0.88
FANCC	2176 CIViC	MITOMYCIN	MITOMYCIN	MITOMYCIN	chembl:CHEMBL105	2.12
FANCD2	2177 DTC	DOXORUBIN	DOXORUBICIN HYDROCHLORIDE	DOXORUBICIN HYDROCHLORIDE	chembl:CHEMBL359744	3.74

FAP	2191 TTD	RG7461	RG7461			
FARP2	9855 PharmGKB	methylphenidmethylphenidate		METHYLPHENIDATE	chembl:CHEMBL796	2.83
FAS	355 NCI	MPA	MPA	PROGESTERONE	chembl:CHEMBL103	0.09
FASLG	356 NCI	ANGIOTENS	ANGIOTENSIN CONVERTING ENZYME INHIBITOR			
FASN	2194 DTC	BI-87E7	BI-87E7	CHEMBL523200	chembl:CHEMBL523200	0.18
FBP1	2203 TdgClinicalTrial	MB07803	MB07803	MB-07803	chembl:CHEMBL4297400	63.65
FBP2	8789 TdgClinicalTrial	MB07803	MB07803	MB-07803	chembl:CHEMBL4297400	31.83
FBXL17	64839 PharmGKB	hydrochlorot	hydrochlorothiazide	HYDROCHLOROTHIAZIDE	chembl:CHEMBL435	1.77
FBXL19	54620 PharmGKB	Tumor necros	Tumor necrosis factor alpha (TNF-alpha) inhibitors			
FBXW7	55294 JAX-CKB	Docetaxel	Docetaxel	DOCETAXEL	chembl:CHEMBL92	0.2
FCAR	2204 GuideToPharmac	363894127	BSAB (CD89-CD20)			
FCER1A	2205 PharmGKB	mizolastine	mizolastine	MIZOLASTINE	chembl:CHEMBL94454	21.22
FCER1G	2207 TdgClinicalTrial	R112	R112			
FCER2	2208 TTD	Lumiliximab	Lumiliximab	LUMILIXIMAB	chembl:CHEMBL2109151	254.61
FCGR1A	2209 ChemblInteractions	CHEMBL21	(MDX-447)	MDX-447	chembl:CHEMBL2109391	31.83
FCGR1CP	100132417 NCI	IFN	IFN			
FCGR2A	2212 PharmGKB	infliximab	infliximab	INFLIXIMAB	chembl:CHEMBL1201581	2.27
FCGR2B	2213 NCI	IL-2	IL-2	ALDESLEUKIN	wikidata:Q20801763	1.63
FCGR3A	2214 NCI	PROTEASE	PROTEASE INHIBITORS			
FCGR3B	2215 NCI	PREDNISOL	PREDNISOLONE	PREDNISOLONE	chembl:CHEMBL131	0.26
FCGRT	2217 GuideToPharmac	374883846	DX-2507			
FCN2	2220 PharmGKB	duloxetine	duloxetine	DULOXETINE	chembl:CHEMBL1175	6.37
FDFT1	2222 ChemblInteractio	inhibitor	CHEMBL43	LAPAQUISTAT ACETATE	LAPAQUISTAT ACETATE	chembl:CHEMBL435224
FDPS	2224 TEND	IBANDRON	IBANDRONATE	IBANDRONIC ACID	chembl:CHEMBL997	15.91
FECH	2235 TTD	Methyl aminc	Methyl aminolevulinate			
FEN1	2237 DTC	NSC-106547	NSC-106547	CHEMBL223575	chembl:CHEMBL223575	0.08
FER	2241 GuideToPharmac	inhibitor	328083505	RO3280		
FES	2242 GuideToPharmac	inhibitor	249565819	COMPOUND 25B [PMID: 22564207]		
FFAR1	2864 GuideToPharmac	agonist	178100391	COMPOUND B [PMID:18477808]		
FFAR2	2867 GuideToPharmac	antagonist	252166627	GLPG0974	GLPG-0974	chembl:CHEMBL3353541
FFAR3	2865 GuideToPharmac	agonist	135651494	ISOBUTYRIC ACID		
FFAR4	338557 GuideToPharmac	agonist	252166628	COMPOUND A [PMID 24997608]		
FGA	2243 TdgClinicalTrial	RETEPLASER	RETEPLASE	RETEPLASE	chembl:CHEMBL2107885	15.91
FGB	2244 ChemblInteractio	inhibitor	CHEMBL12	(FIBRINOLYSIN, HUMAN)	FIBRINOLYSIN, HUMAN	chembl:CHEMBL1201505
FGD4	121512 PharmGKB	paclitaxel	paclitaxel	PACLITAXEL	chembl:CHEMBL428647	1.31
FGF1	2246 TEND	PENTOSAN	PENTOSAN POLYSULFATE			
FGF18	8817 TTD	AS-902330	AS-902330	SPRIFERMIN	chembl:CHEMBL2108302	63.65
FGF19	9965 CIViC	FISOGATINI	FISOGATINIB			
FGF2	2247 NCI	REBAMIPID	REBAMIPIDE	REBAMIPIDE	chembl:CHEMBL1697771	2.02
FGF21	26291 TTD	PF-05231023	PF-05231023			
FGF22	27006 DTC	SB-204741	SB-204741	CHEMBL323356	chembl:CHEMBL323356	0.91
FGF23	8074 TTD	Burosumab	Burosumab	BUROSUMAB	chembl:CHEMBL3707326	254.61

FGF3	2248 CIViC	SORAFENIB	SORAFENIB	chembl:CHEMBL1336	1.53
FGF4	2249 TTD	Alferminoger	Alferminogene tadenovec		
FGF6	2251 NCI	BUPIVACAIB	BUPIVACAINE	chembl:CHEMBL1098	10.61
FGF7	2252 TTD	Keratinocyte	Keratinocyte growth factor (KGF)		
FGFR1	2260 TTD	NGM313	NGM313		
FGFR1OP2	26127 PharmGKB	brivanib	brivanib	BRIVANIB	chembl:CHEMBL377300
FGFR2	2263 JAX-CKB	AZ6089	AZ6089		11.57
FGFR3	2261 GuideToPharmac	384403666	TAK-632		
FGFR3P1	100462812 PharmGKB	brivanib	brivanib	BRIVANIB	chembl:CHEMBL377300
FGFR4	2264 GuideToPharmac	354702260	DEBIO1347	DEBIO-1347	wikidata:Q27285013
FGFRL1	53834 PharmGKB	brivanib	brivanib	BRIVANIB	chembl:CHEMBL377300
FGG	2266 TdgClinicalTrial	ALFIMEPRAA	ALFIMEPRASE	ALFIMEPRASE	chembl:CHEMBL2108893
FGR	2268 ChemblInteractio	CHEMBL40	TG100-801	TG100-801	chembl:CHEMBL403989
FH	2271 NCI	DIETHYLDI	DIETHYLDITHIOCARBAM	DITIOCARB	chembl:CHEMBL961
FHIT	2272 NCI	TRICHOSTA	TRICHOSTATIN A		18.19
FHL2	2274 PharmGKB	gemcitabine	gemcitabine	GEMCITABINE	chembl:CHEMBL888
FIP1L1	81608 FDA	Imatinib	Imatinib	IMATINIB	chembl:CHEMBL941
FKBP1A	2280 ChemblInteractio	CHEMBL35	Olocrolimus	OLOCROLIMUS	chembl:CHEMBL3545142
FKBP4	2288 NCI	IMMUNOSU	IMMUNOSUPPRESSIVE		
FKBP5	2289 PharmGKB	escitalopram	escitalopram	ESCITALOPRAM	chembl:CHEMBL1508
FLCN	201163 CIViC	SIROLIMUS	SIROLIMUS	SIROLIMUS	chembl:CHEMBL413
FLG	2312 NCI	PROPIONIB.	PROPIONIBACTERIUM ACNES		
FLI1	2313 OncoKB	TK216	TK216		
FLNA	2316 TTD	PTI-125	PTI-125		
FLT1	2321 MyCancerGenom	VANDETAN	VANDETANIB	VANDETANIB	chembl:CHEMBL24828
FLT3	2322 GuideToPharmac	178102285	LINIFANIB	LINIFANIB	chembl:CHEMBL223360
FLT4	2324 ClarityFoundation	CEDIRANIB	CEDIRANIB	CEDIRANIB	chembl:CHEMBL491473
FMO1	2326 PharmGKB	tamoxifen	tamoxifen	TAMOXIFEN	chembl:CHEMBL83
FMO3	2328 PharmGKB	tacrolimus	tacrolimus	TACROLIMUS	chembl:CHEMBL269732
FMO5	2330 PharmGKB	metformin	metformin	METFORMIN	chembl:CHEMBL1431
FN1	2335 ChemblInteractions	CHEMBL21	L19IL2	L19IL2	chembl:CHEMBL2109608
FNTA	2339 ChemblInteractio	CHEMBL29	LONAFARNIB	LONAFARNIB	chembl:CHEMBL298734
FNTB	2342 PharmGKB	lonafarnib	lonafarnib	LONAFARNIB	chembl:CHEMBL298734
FOLH1	2346 NCI	IMMUNOTC	IMMUNOTOXIN		
FOLR1	2348 TdgClinicalTrial	FARLETUZU	FARLETUZUMAB	FARLETUZUMAB	chembl:CHEMBL1743016
FOLR2	2350 DTC	FOLIC ACID	FOLIC ACID	FOLIC ACID	chembl:CHEMBL1622
FOLR3	2352 PharmGKB	pemetrexed	pemetrexed	PEMETREXED	chembl:CHEMBL225072
FOS	2353 NCI	SAPONIN	SAPONIN		9.09
FOSL1	8061 NCI	TPA	TPA	ALTEPLASE	chembl:CHEMBL1201593
FOXC2	2303 CIViC	OXALIPLATO	OXALIPLATIN	OXALIPLATIN	chembl:CHEMBL414804
FOXF2	2295 PharmGKB	Antithyroid P	Antithyroid Preparations		
FOXL2	668 JAX-CKB	N/A	N/A		

FOXO1	2308 PharmGKB	fluorouracil	fluorouracil	FLUOROURACIL	chembl:CHEMBL185	0.2
FOXO3	2309 DTC	RESVERATRIRESVERATROL	RESVERATROL	RESVERATROL	chembl:CHEMBL165	1.33
FOXP3	50943 PharmGKB	methotrexate	methotrexate	METHOTREXATE	chembl:CHEMBL34259	0.39
FPGS	2356 NCI	5-FU	5-FU	FLUOROURACIL	chembl:CHEMBL185	0.4
FPR1	2357 GuideToPharmac antagonist	135652599 T-BOC-FLFLF				
FPR2	2358 GuideToPharmac antagonist	178102883 COMPOUND 1754-31 [PMID: 23788657]				
FPR3	2359 GuideToPharmac agonist	135652158 FMET-MET-TYR-ALA-LEU-PHE				
FRK	2444 DTC	TAMATINIETAMATINIB	R-406		chembl:CHEMBL475251	0.03
FSCN1	6624 TTD	NP-G2-044 NP-G2-044	NP-G2-044		chembl:CHEMBL4297473	63.65
FSHB	2488 TTD	Follicle stimuFollicle stimulating hormone				
FSHR	2492 TEND	MENOTROPENOTROPINS	MENOTROPINS		chembl:CHEMBL2108427	79.56
FSIP1	161835 PharmGKB	aspirin	aspirin	ASPIRIN	chembl:CHEMBL25	0.87
FST	10468 NCI	ANTI-ANDRANTI-ANDROGEN				
FTH1	2495 TTD	Ferritarg P Ferritarg P				
FTO	79068 PharmGKB	interferon alf:interferon alfa-2b, recombinant				
FURIN	5045 GuideToPharmac inhibitor	252166802 MI-1148				
FUS	2521 NCI	ATRA	ATRA	TRETINOIN	chembl:CHEMBL38	3.86
FUT2	2524 PharmGKB	ethanol	ethanol	ALCOHOL	chembl:CHEMBL545	1.48
FUT3	2525 TTD	Rebmab-100 Rebma-100				
FUT4	2526 TTD	99mTc-fanoc99mTc-fanolesomab				
FXN	2395 NCI	CISPLATIN	CISPLATIN	CISPLATIN	chembl:CHEMBL11359	0.44
FXR2	9513 PharmGKB	methylphenidmethylphenidate		METHYLPHENIDATE	chembl:CHEMBL796	2.83
FXYD2	486 ChemblInteractio inhibitor	CHEMBL17: DIGOXIN		DIGOXIN	chembl:CHEMBL1751	0.37
FYN	2534 ChemblInteractio inhibitor	CHEMBL40: TG100-801		TG100-801	chembl:CHEMBL403989	0.11
FZD1	8321 DTC	GNF-PF-341 GNF-PF-3411		CHEMBL593726	chembl:CHEMBL593726	31.83
FZD2	2535 GuideToPharmac antibody	381118907 VANTICTUMAB		VANTICTUMAB	chembl:CHEMBL2364652	18.19
FZD4	8322 GuideToPharmac allosteric	381745002 FZM1.8				
FZD5	7855 GuideToPharmac antibody	381118907 VANTICTUMAB		VANTICTUMAB	chembl:CHEMBL2364652	18.19
FZD6	8323 GuideToPharmac agonist	135651914 WNT-3A				
FZD7	8324 GuideToPharmac antagonist	381745004 SRI37892				
FZD8	8325 GuideToPharmac allosteric	178102003 CARBAMAZEPINE		CARBAMAZEPINE	chembl:CHEMBL108	0.45
G6PD	2539 FDA	SulfamethoxeSulfamethoxazole		SULFAMETHOXAZOLE	chembl:CHEMBL443	0.18
GAA	2548 DTC	CID 667285 CID 667285		CHEMBL267160	chembl:CHEMBL267160	0.23
GABBR1	2550 TdgClinicalTrial	R-BACLOFER-BACLOFEN				
GABBR2	9568 TdgClinicalTrial	ARBACLOF.ARBACLOFEN		ARBACLOFEN	chembl:CHEMBL301742	31.83
GABPA	2551 NCI	QUERCETINQUERCETIN		QUERCETIN	chembl:CHEMBL50	0.54
GABRA1	2554 TdgClinicalTrial	CLONAZEP.CLONAZEPAM		CLONAZEPAM	chembl:CHEMBL452	0.23
GABRA2	2555 ChemblInteractions	CHEMBL40: FLUMAZENIL		FLUMAZENIL	chembl:CHEMBL407	0.2
GABRA3	2556 GuideToPharmac allosteric	178101144 TPA023		MK-0777	chembl:CHEMBL200177	0.19
GABRA4	2557 ChemblInteractio positive n	CHEMBL97(HALAZEPAM		HALAZEPAM	chembl:CHEMBL970	0.04
GABRA5	2558 ChemblInteractio positive n	CHEMBL45: CHLORDIAZEPOXIDE		CHLORDIAZEPOXIDE	chembl:CHEMBL451	0.11
GABRA6	2559 GuideToPharmac allosteric	178100967 BRETZENIL		BRETZENIL	chembl:CHEMBL366947	0.14

GABRB1	2560 TdgClinicalTrial	HALAZEPAM	HALAZEPAM	chembl:CHEMBL970	0.25
GABRB2	2561 TdgClinicalTrial	CLOBAZAM	CLOBAZAM	chembl:CHEMBL70418	0.13
GABRB3	2562 ChemblInteracti	CHEMBL209	CHEMBL209	chembl:CHEMBL2096631	0.06
GABRD	2563 TEND	DIAZEPAM	DIAZEPAM	chembl:CHEMBL12	0.17
GABRE	2564 TdgClinicalTrial	CHLORDIAZEPOXIDE	CHLORDIAZEPOXIDE	chembl:CHEMBL451	0.15
GABRG1	2565 TdgClinicalTrial	ALPRAZOLAM	ALPRAZOLAM	chembl:CHEMBL661	0.1
GABRG2	2566 ChemblInteracti	CHEMBL152	CHEMBL152	chembl:CHEMBL1521	0.24
GABRG3	2567 TTD	Metharbital	METHARBITAL	chembl:CHEMBL450	0.09
GABRP	2568 ChemblInteracti	CHEMBL12	CHEMBL12		
GABRQ	55879 ChemblInteracti	CHEMBL52	CHEMBL52	chembl:CHEMBL526	0.04
GABRR1	2569 TdgClinicalTrial	TRIAZOLAM	TRIAZOLAM	chembl:CHEMBL646	0.28
GABRR2	2570 TdgClinicalTrial	HALAZEPAM	HALAZEPAM	chembl:CHEMBL970	0.44
GABRR3	200959 TEND	HALAZEPAM	HALAZEPAM	chembl:CHEMBL970	0.44
GAD1	2571 GuideToPharmac	178101950	178101950		
GAD2	2572 TTD	Diamyd	Diamyd		
GADD45A	1647 NCI	DOXORUBICIN	DOXORUBICIN	chembl:CHEMBL53463	0.27
GADD45G	10912 NCI	ANDROGEN	ANDROGEN		
GAK	2580 DTC	SB-202190	SB-202190	chembl:CHEMBL278041	1.21
GAL	51083 PharmGKB	Selective serotonin reuptake inhibitors	Selective serotonin reuptake inhibitors		
GALC	2581 NCI	BUSULFAN	BUSULFAN	chembl:CHEMBL820	11.23
GALK1	2584 DTC	GNF-PF-67	CHEMBL578512	chembl:CHEMBL578512	0.18
GALNS	2588 TTD	BMN-110	ELOSULFASE ALFA	chembl:CHEMBL2108676	63.65
GALNT14	79623 PharmGKB	fluorouracil	FLUOROURACIL	chembl:CHEMBL185	0.45
GALNT17	64409 PharmGKB	montelukast	MONTELUKAST	chembl:CHEMBL787	7.07
GALNT18	374378 PharmGKB	tocilizumab	TOCILIZUMAB	chembl:CHEMBL1237022	15.91
GALNT2	2590 PharmGKB	atenolol	ATENOLOL	chembl:CHEMBL24	1.87
GALP	85569 NCI	THYROID-STIMULATING HORMONE	THYROID-STIMULATING HORMONE		
GALR1	2587 GuideToPharmac	178102728	CHEMBL506495	chembl:CHEMBL506495	4.55
GALR2	8811 GuideToPharmac	178102729			
GALR3	8484 DTC	METHACHOLINE CHLORIDE	METHACHOLINE CHLORIDE	chembl:CHEMBL1200764	1.93
GALT	2592 TTD	HyperAcute vaccine	HyperAcute vaccine		
GANAB	23193 DTC	MIGLUSTAT	MIGLUSTAT	chembl:CHEMBL1029	63.65
GAPDH	2597 DTC	PURPUROGALLIN	PURPUROGALLIN	chembl:CHEMBL66953	0.12
GAPVD1	26130 PharmGKB	interferon beta-1a	interferon beta-1a		
GART	2618 ChemblInteracti	CHEMBL12	CHEMBL12		
GAS6	2621 NCI	WARFARIN	WARFARIN	chembl:CHEMBL1464	1.77
GAST	2520 TTD	G17DT	G17DT		
GATA1	2623 JAX-CKB	Daunorubicin	DAUNORUBICIN	chembl:CHEMBL178	0.99
GATA2	2624 NCI	5-AZACYTIDINE	AZACITIDINE	chembl:CHEMBL1489	0.94
GATA3	2625 PharmGKB	mercaptopurine	MERCAPTOPYRINE	chembl:CHEMBL1425	0.27
GATA4	2626 DTC	NSC-85661	CHEMBL1684098	chembl:CHEMBL1684098	25.46
GATM	2628 PharmGKB	hmg coa reductase inhibitors	hmg coa reductase inhibitors		

GBA	2629 DTC	GNF-PF-408:GNF-PF-4085	CHEMBL528181	chembl:CHEMBL528181	0.3
GBP6	163351 PharmGKB	Tumor necrosis factor alpha (TNF-alpha) inhibitors			
GC	2638 ChEMBLInteraction	inhibitor CHEMBL712	ANISINDIONE	chembl:CHEMBL712	1.52
GCG	2641 NCI	PC4	PC4		
GCGR	2642 TTD	Aromatic ring	Aromatic ring compound 4		
GCH1	2643 TTD	ProSavin	ProSavin		
GCK	2645 TTD	HMS5552	HMS5552	DORZAGLIATIN	chembl:CHEMBL4297508
GCKR	2646 PharmGKB	ethanol	ethanol	ALCOHOL	chembl:CHEMBL545
GCLC	2729 NCI	BSO	BSO		
GCLM	2730 NCI	PMSG	PMSG		
GDA	9615 DTC	NSC-7861	NSC-7861	7-METHYLBXANTHINE	chembl:CHEMBL321248
GDF15	9518 NCI	NSAIDS	NSAIDS		
GDF2	2658 TTD	ACE-041	ACE-041	DALANTERCEPT	chembl:CHEMBL2109662
GDF5	8200 TTD	RhGDF-5	RhGDF-5		
GDNF	2668 TTD	Liatermin	Liatermin	LIATERMIN	chembl:CHEMBL2108380
GEM	2669 TTD	Lirilumab	Lirilumab	LIRILUMAB	chembl:CHEMBL2109500
GET1	7485 PharmGKB	methylphenidate	methylphenidate	METHYLPHENIDATE	chembl:CHEMBL796
GFAP	2670 NCI	IMMUNOTOXIN	IMMUNOTOXIN		
GFER	2671 DTC	TRIMEPRAZINE	TRIMEPRAZINE TARTRATE	chembl:CHEMBL1713082	0.49
GFRA1	2674 GuideToPharmacology	178101552 [125I]GDNF (RAT)			
GFRA3	2676 TTD	Neublastin	Neublastin		
GFRAL	389400 GuideToPharmacology	agonist 354702211	GROWTH DIFFERENTIATION FACTOR 15		
GGCT	79017 GuideToPharmacology	inhibitor 381744946	GGSTOP		
GGCX	2677 TEND	PHYTONADIONE	PHYTONADIONE	PHYTONADIONE	chembl:CHEMBL1550
GGH	8836 PharmGKB	methotrexate	methotrexate	METHOTREXATE	chembl:CHEMBL34259
GGPS1	9453 GuideToPharmacology	inhibitor 135649698	COMPOUND 16 [PMID: 18800762]		
GGT1	2678 NCI	ANTIBIOTICS	ANTIBIOTICS		
GH1	2688 TTD	VRS-317	VRS-317	SOMAVARATAN	chembl:CHEMBL3707323
GHR	2690 TTD	Syntropin	Syntropin		
GHRH	2691 NCI	MELATONIN	MELATONIN	MELATONIN	chembl:CHEMBL45
GHRHR	2692 TdgClinicalTrial	DAC:GRF	DAC:GRF		
GHRL	51738 NCI	ROFECOXIB	ROFECOXIB	ROFECOXIB	chembl:CHEMBL122
GHSR	2693 GuideToPharmacology	antagonist 178102495	ABBOTT 14C		
GIPR	2696 TTD	SAR438335	SAR438335		
GJA1	2697 NCI	BLEOMYCIN	BLEOMYCIN	BLEOMYCIN	chembl:CHEMBL403664
GJA10	84694 GuideToPharmacology	inhibitor 135652731	CA2+		
GJA3	2700 GuideToPharmacology	inhibitor 135652731	CA2+		
GJA4	2701 GuideToPharmacology	inhibitor 178100972	CARBENOXOLONE	CARBENOXOLONE	chembl:CHEMBL499915
GJA5	2702 GuideToPharmacology	inhibitor 135652731	CA2+		
GJA8	2703 GuideToPharmacology	inhibitor 135650269	FLUFENAMIC ACID		
GJA9	81025 GuideToPharmacology	inhibitor 135652731	CA2+		
GJB1	2705 GuideToPharmacology	inhibitor 135652731	CA2+		

GJB2	2706	GuideToPharmac	inhibitor	135652731	CA2+				
GJB3	2707	GuideToPharmac	inhibitor	178101095	OCTANOL	OCTANOL	chembl:CHEMBL26215		1.52
GJB4	127534	GuideToPharmac	inhibitor	135652731	CA2+				
GJB5	2709	GuideToPharmac	inhibitor	178101095	OCTANOL	OCTANOL	chembl:CHEMBL26215		1.52
GJB6	10804	GuideToPharmac	inhibitor	178101095	OCTANOL	OCTANOL	chembl:CHEMBL26215		1.52
GJB7	375519	GuideToPharmac	inhibitor	135652731	CA2+				
GJC1	10052	GuideToPharmac	inhibitor	135650269	FLUFENAMIC ACID				
GJC2	57165	GuideToPharmac	inhibitor	178101095	OCTANOL	OCTANOL	chembl:CHEMBL26215		1.52
GJC3	349149	GuideToPharmac	inhibitor	178100972	CARBENOXOLONE	CARBENOXOLONE	chembl:CHEMBL499915		1.33
GJD2	57369	GuideToPharmac	inhibitor	178101095	OCTANOL	OCTANOL	chembl:CHEMBL26215		1.52
GJD3	125111	GuideToPharmac	inhibitor	135650269	FLUFENAMIC ACID				
GJD4	219770	GuideToPharmac	inhibitor	178101095	OCTANOL	OCTANOL	chembl:CHEMBL26215		1.52
GJE1	100126572	GuideToPharmac	inhibitor	135650269	FLUFENAMIC ACID				
GLA	2717	DTC		PINDOLOL	PINDOLOL	PINDOLOL	chembl:CHEMBL500		0.88
GLCCII	113263	PharmGKB		nedocromil	nedocromil	NEDOCROMIL	chembl:CHEMBL746		15.91
GLDC	2731	PharmGKB		escitalopram	escitalopram	ESCITALOPRAM	chembl:CHEMBL1508		3.54
GLII	2735	TTD		Isoflavone de Isoflavone derivative 2					
GLIPR1	11010	TTD		AdRTVP-1	AdRTVP-1				
GLO1	2739	DTC		2-(4-METHC2-(4-METHOXYBENZAMII	CHEMBL1701911		chembl:CHEMBL1701911		63.65
GLP1R	2740	GuideToPharmac	antagonist	135652151	EXENDIN-(9-39)				
GLP2R	9340	TdgClinicalTrial		ZP1848	ZP1848	GLEPAGLUTIDE	chembl:CHEMBL4297761		42.43
GLRA1	2741	GuideToPharmac	antagonist	135652718	STRYCHNINE	STRYCHNINE	chembl:CHEMBL227934		0.3
GLRA2	2742	GuideToPharmac	allosteric	135652747	ZN2+				
GLRA3	8001	GuideToPharmac	antagonist	135651326	WIN55212-2				
GLRB	2743	ChemblInteractions		CHEMBL12(SEVOFLURANE		SEVOFLURANE	chembl:CHEMBL1200694		0.14
GLS	2744	DTC		CEFATRIZIN	CEFATRIZINE	CEFATRIZINE	chembl:CHEMBL1095284		0.94
GM2A	2760	TTD		BIW-8962	BIW-8962	BIW-8962	chembl:CHEMBL2109426		63.65
GMNN	51053	DTC		IDAZOXAN	IDAZOXAN	IDAZOXAN	chembl:CHEMBL10316		0.02
GNA11	2767	CIViC		MEK INHIBIMEK INHIBITOR	PD0325901				
GNA13	10672	PharmGKB		oxaliplatin	oxaliplatin	OXALIPLATIN	chembl:CHEMBL414804		3.44
GNAQ	2776	JAX-CKB		Verteporfin	Verteporfin	VERTEPORFIN	chembl:CHEMBL2218885		4.9
GNAS	2778	DTC		GARCINON	GARCINONE E	GARCINONE E	chembl:CHEMBL454580		0.18
GNB3	2784	PharmGKB		Thiazides, pl	Thiazides, plain				
GNE	10020	TTD		GNE Lipople	GNE Lipoplex				
GNL3	26354	PharmGKB		cyclophospha	cyclophosphamide	CYCLOPHOSPHAMIDE	chembl:CHEMBL88		0.27
GNMT	27232	PharmGKB		l-methionine	l-methionine	METHIONINE	chembl:CHEMBL42336		12.73
GNRH1	2796	NCI		DDS	DDS	DAPSONE	chembl:CHEMBL1043		1.16
GNRHR	2798	TTD		Elagolix sodi	Elagolix sodium				
GNRHR2	114814	TdgClinicalTrial		DEGARELIX	DEGARELIX	DEGARELIX	chembl:CHEMBL415606		3.98
GP1BA	2811	TTD		ZK-001	ZK-001				
GP6	51206	TdgClinicalTrial		PR-15	PR-15				
GPA33	10223	TTD		MGD007	MGD007	MGD-007	chembl:CHEMBL4298038		10.61

GPBAR1	151306	GuideToPharmacagonist	135651505	LITHOCHOLIC ACID		
GPC3	2719	TTD	GPC3	targetiiGPC3 targeting CAR-T cells		
GPD2	2820	ChemblInteractioinhibitor	CHEMBL17	(METFORMIN HYDROCHL	METFORMIN HYDROCHLORIDE	chembl:CHEMBL1703 1.18
GPRI1	2852	GuideToPharmac antagonist	178103094	G36		
GPI	2821	NCI	6-AN	6-AN		
GPNMB	10457	ChemblInteractions	CHEMBL17	(GLEMBATUMUMAB VED	(GLEMBATUMUMAB VEDOTIN	chembl:CHEMBL1743028 190.95
GPR119	139760	GuideToPharmacagonist	178102365	COMPOUND 8G [PMID: 21444206]		
GPR12	2835	DTC	NEOCYCLONEOCYCLOCITRINOL B	NEOCYCLOCITRINOL B	chembl:CHEMBL497296	31.83
GPR132	29933	GuideToPharmacagonist	178102204	9-HYDROXYOCTADECADIENOIC ACID		
GPR139	124274	TTD	TAK-041	TAK-041		
GPR142	350383	GuideToPharmacagonist	252827449	COMPOUND 33 [TODA ET AL., 2013]		
GPR143	4935	GuideToPharmacagonist	178100545	LEVODOPA	LEVODOPA	chembl:CHEMBL1009 1.72
GPR15	2838	GuideToPharmacagonist	404859015	GPR15L (71-81)		
GPR17	2840	GuideToPharmacagonist	178102163	ASN04885796		
GPR174	84636	GuideToPharmacagonist	178100887	LYSOPHOSPHATIDYLSERINE		
GPR18	2841	GuideToPharmacagonist	135651444	ARACHIDONYLCYCLOPROPYLAMIDE		
GPR183	1880	GuideToPharmacagonist	135651392	25-HYDROXYCHOLESTER	CHEMBL169046	chembl:CHEMBL169046 21.22
GPR19	2842	GuideToPharmacagonist	336446959	ADROPIN		
GPR3	2827	GuideToPharmacagonist	135651563	SPHINGOSINE 1-PHOSPHATE		
GPR32	2854	GuideToPharmacagonist	178100762	RESOLVIN D1		
GPR34	2857	GuideToPharmacagonist	178100887	LYSOPHOSPHATIDYLSERINE		
GPR35	2859	GuideToPharmacagonist	178101541	FUROSEMIDE	FUROSEMIDE	chembl:CHEMBL35 1.31
GPR37	2861	GuideToPharmacagonist	178102688	PROSAPTIDE		
GPR37L1	9283	GuideToPharmacagonist	178102688	PROSAPTIDE		
GPR39	2863	GuideToPharmacagonist	135652747	ZN2+		
GPR4	2828	GuideToPharmac antagonist	381744889	GPR4 ANTAGONIST 3B		
GPR52	9293	GuideToPharmacagonist	252827497	COMPOUND 7A [PMID: 24884590]		
GPR55	9290	DTC	BISACODYI	BISACODYL	BISACODYL	chembl:CHEMBL942 0.94
GPR63	81491	GuideToPharmacagonist	178102157	DIOLEOYLPHOSPHATIDIC ACID		
GPR68	8111	GuideToPharmacagonist	404859017	OSTN (115-133)		
GPR75	10936	GuideToPharmacagonist	135651690	CCL5		
GPR83	10888	PharmGKB	hydrochlorot	hydrochlorothiazide	HYDROCHLOROTHIAZIDE	chembl:CHEMBL435 0.88
GPR84	53831	GuideToPharmacagonist	178102470	6-N-OCTYLAMINOURACIL		
GPR87	53836	GuideToPharmac antagonist	135650457	KII6425		
GPR88	54112	GuideToPharmacagonist	375973219	RTI-13951-33		
GPRC6A	222545	GuideToPharmacagonist	135651510	L-SERINE	SERINE	chembl:CHEMBL11298 7.96
GPT	2875	NCI	PROTEASE	PROTEASE INHIBITOR		
GPX1	2876	NCI	GP-120	GP-120		
GPX5	2880	PharmGKB	carboplatin	carboplatin	CARBOPLATIN	chembl:CHEMBL1351 0.54
GRAMD1B	57476	PharmGKB	lithium	lithium	LITHIUM	chembl:CHEMBL2146126 2.77
GRB14	2888	NCI	INSULIN	INSULIN	INSULIN	chembl:CHEMBL1201631 2.5
GRB2	2885	TdgClinicalTrial	LIPOSOMA	LIPOSOMAL	GRB-2	

GREM2	64388 PharmGKB	allopurinol	allopurinol	ALLOPURINOL	chembl:CHEMBL1467	4.39
GRIA1	2890 ChEMBLInteraction	antagonist	CHEMBL115	ZONAMPANEL	chembl:CHEMBL119625	0.59
GRIA2	2891 GuideToPharmac	allosteric	178100987	CYCLOTHIAZIDE	chembl:CHEMBL61593	0.24
GRIA3	2892 GuideToPharmac	agonist	178100893	(S)-5-FLUOROWILLARDIINE		
GRIA4	2893 TdgClinicalTrial			PERAMPANPERAMPANEL	chembl:CHEMBL1214124	2.51
GRID2	2895 PharmGKB	risperidone	risperidone	RISPERIDONE	chembl:CHEMBL85	1.99
GRIK1	2897 TEND			TOPIRAMA`TOPIRAMATE	chembl:CHEMBL220492	3.26
GRIK2	2898 TdgClinicalTrial			TALBUTAL TALBUTAL	chembl:CHEMBL1200802	0.85
GRIK3	2899 TdgClinicalTrial			TEZAMPANTEZAMPANEL	chembl:CHEMBL14935	3.54
GRIK4	2900 PharmGKB	haloperidol	haloperidol	HALOPERIDOL	chembl:CHEMBL54	0.36
GRIK5	2901 GuideToPharmac	agonist	178100898	[3H]SYM2081		
GRIN1	2902 DTC			DIZOCILPINDIZOCILPINE	chembl:CHEMBL284237	0.49
GRIN2A	2903 ChEMBLInteraction	positive n	CHEMBL12	NEBOGLAMINE	chembl:CHEMBL1255840	0.26
GRIN2B	2904 GuideToPharmac	blocker	178101077	N1-DANSYL-SPERMINE		
GRIN2C	2905 GuideToPharmac	antagonist	178100976	SELFOTEL	chembl:CHEMBL39664	0.47
GRIN2D	2906 GuideToPharmac	agonist	178100907	[3H]GLYCINE		
GRIN3A	116443 TdgClinicalTrial			LATREPIRDLATREPIRDINE	chembl:CHEMBL589390	0.3
GRIN3B	116444 ChEMBLInteraction	antagonist	CHEMBL37	Indantadol	chembl:CHEMBL3707400	0.59
GRK1	6011 GuideToPharmac	inhibitor	249565822	BALANOL	chembl:CHEMBL60254	4.9
GRK2	156 TTD			US9493490, US9493490, L		
GRK3	157 GuideToPharmac	inhibitor	252166647	COMPOUND 101 [PMID: 21596927]		
GRK4	2868 GuideToPharmac	inhibitor	249565822	BALANOL	chembl:CHEMBL60254	1.22
GRK5	2869 DTC			JNJ-7706621 JNJ-7706621	chembl:CHEMBL191003	0.11
GRK6	2870 GuideToPharmac	inhibitor	249565822	BALANOL	chembl:CHEMBL60254	4.9
GRK7	131890 GuideToPharmac	inhibitor	249565822	BALANOL	chembl:CHEMBL60254	4.9
GRM1	2911 NCI			DHPG DHPG		
GRM2	2912 GuideToPharmac	allosteric	178102845	COMPOUND 4 [PMID: 21105727]		
GRM3	2913 GuideToPharmac	agonist	135650556	LY379268		
GRM4	2914 DTC			N-(3,4-DIMEN-(3,4-DIMETHOXYPHEN`CHEMBL572346	chembl:CHEMBL572346	3.18
GRM5	2915 TTD			Pyrazolopyrir Pyrazolopyrimidine derivative 2		
GRM6	2916 GuideToPharmac	antagonist	135651172	[3H]LY341495		
GRM7	2917 GuideToPharmac	allosteric	252166746	XAP044		
GRM8	2918 GuideToPharmac	agonist	135650554	EGLUMEGAD	chembl:CHEMBL2106523	15.91
GRP	2922 NCI			NIFEDIPINENIFEDIPINE	chembl:CHEMBL193	0.34
GRPR	2925 GuideToPharmac	antagonist	178102803	[D-PHE6]BOMBESIN(6-13)PROPYLAMIDE		
GSK3A	2931 TTD			Thiadiazolidi Thiadiazolidindione derivative 2		
GSK3B	2932 TTD			PMID261616PMID26161698-Compound-18		
GSR	2936 NCI			THYROXINITHYROXINE	chembl:CHEMBL42115	0.71
GSTA1	2938 PharmGKB	vincristine	vincristine	VINCRISTINE	chembl:CHEMBL90555	0.37
GSTM1	2944 PharmGKB	doxorubicin	doxorubicin	DOXORUBICIN	chembl:CHEMBL53463	0.06
GSTM3	2947 PharmGKB	olanzapine	olanzapine	OLANZAPINE	chembl:CHEMBL715	1.87
GSTO1	9446 GuideToPharmac	inhibitor	405067312	COMPOUND 25 [PMID: 32105470]		

GSTP1	2950 NCI	DNR	DNR			
GSTT1	2952 NCI	PACLITAXE	PACLITAXEL	PACLITAXEL	chembl:CHEMBL428647	0.13
GSTZ1	2954 PharmGKB	dichloroacetic acid	dichloroacetic acid			
GTF2B	2959 NCI	VITAMIN D	VITAMIN D			
GUCA2A	2980 NCI	SALT	SALT	VOLANESORSEN SODIUM	chembl:CHEMBL3544989	3.54
GUCA2B	2981 NCI	SALT	SALT	VOLANESORSEN SODIUM	chembl:CHEMBL3544989	21.22
GUCY1A1	2982 ChemblInteraction activator	CHEMBL73	(NITROGLYCERIN)	NITROGLYCERIN	chembl:CHEMBL730	1.06
GUCY1A2	2977 ChemblInteraction activator	CHEMBL12	(NITRIC OXIDE)	NITRIC OXIDE	chembl:CHEMBL1200689	1.52
GUCY1B1	2983 ChemblInteraction positive regulator	CHEMBL21	(RIOCIGUAT)	RIOCIGUAT	chembl:CHEMBL2107834	3.64
GUCY1B2	2974 ChemblInteraction activator	CHEMBL662	(ISOSORBIDE DINITRATE)	ISOSORBIDE DINITRATE	chembl:CHEMBL6622	2.65
GUCY2C	2984 GuideToPharmacology	178101714	LINACLOTIDE	LINACLOTIDE	chembl:CHEMBL3301675	79.56
GUCY2D	3000 TTD	FK-409	FK-409	CHEMBL173729	chembl:CHEMBL173729	31.83
GUSB	2990 TTD	PerioPatch	PerioPatch			
GYP A	2993 TdgClinicalTrial	WX-G250	WX-G250	GIRENTUXIMAB	chembl:CHEMBL1743027	7.96
GZMA	3001 NCI	CYCLOSPORINE	CYCLOSPORINE	CYCLOSPORINE	chembl:CHEMBL160	2.05
GZMB	3002 DTC	HEXACHLOROPHENE	HEXACHLOROPHENE	HEXACHLOROPHENE	chembl:CHEMBL496	3.1
H19	283120 PharmGKB	Platinum compounds	Platinum compounds			
H2AW	92815 NCI	TRICHOSTATIN A	TRICHOSTATIN A			
H2AX	3014 NCI	TEMOZOLOMIDE	TEMOZOLOMIDE	TEMOZOLOMIDE	chembl:CHEMBL810	1.77
H3-3A	3020 CIViC	AKT/ERK INHIBITOR	AKT/ERK INHIBITOR	ONC201		
H3C2	8358 CIViC	AKT/ERK INHIBITOR	AKT/ERK INHIBITOR	ONC201		
H4-16	121504 NCI	TRICHOSTATIN A	TRICHOSTATIN A			
HAMP	57817 TTD	NOX-H94	NOX-H94	LEXAPTEPID PEGOL	chembl:CHEMBL4298061	63.65
HAS3	3038 NCI	HYDROCORTISONE	HYDROCORTISONE	HYDROCORTISONE	chembl:CHEMBL389621	3.35
HASPIN	83903 GuideToPharmacology	252827442	SGI-1776	SGI-1776	chembl:CHEMBL1952329	9.09
HAVCR2	84868 TTD	LY3321367	LY3321367	LY-3321367	chembl:CHEMBL4298022	63.65
HBA2	3040 ChemblInteraction negative regulator	CHEMBL185	EFAPROXIRAL	EFAPROXIRAL	chembl:CHEMBL18901	31.83
HBB	3043 DTC	AZACITIDINE	AZACITIDINE	AZACITIDINE	chembl:CHEMBL1489	0.07
HBEGF	1839 PharmGKB	cetuximab	cetuximab	CETUXIMAB	chembl:CHEMBL1201577	0.49
HCAR1	27198 GuideToPharmacology	135651506	L-LACTIC ACID			
HCAR2	338442 TdgClinicalTrial	NIACIN RECEPTOR AGONIST	NIACIN RECEPTOR AGONIST			
HCAR3	8843 TTD	ARI-3037	MCARI-3037	MO		
HCG22	285834 PharmGKB	triamcinolone	triamcinolone	TRIAMCINOLONE	chembl:CHEMBL1451	2.77
HCK	3055 NCI	LIF	LIF			
HCN1	348980 PharmGKB	o-desmethyl-tramadol	o-desmethyl-tramadol			
HCN2	610 GuideToPharmacology	135652734	CS+			
HCN3	57657 GuideToPharmacology	135650098	CILOBRADINE	CILOBRADINE	chembl:CHEMBL1436376	4.24
HCN4	10021 GuideToPharmacology	135651356	ZATEBRADINE	ZATEBRADINE	chembl:CHEMBL69679	3.18
HCP5	10866 PharmGKB	gemcitabine	gemcitabine	GEMCITABINE	chembl:CHEMBL888	0.52
HCRTR1	3061 TTD	1,2-diamino cyclopentane-based derivative 1	1,2-diamino cyclopentane-based derivative 1			
HCRTR2	3062 GuideToPharmacology	135650615	SUVOREXANT	SUVOREXANT	chembl:CHEMBL1083659	13.26
HDAC1	3065 GuideToPharmacology	310264675	CUDC-101	CUDC-101	chembl:CHEMBL598797	0.36

HDAC10	83933 DTC		APICIDIN	APICIDIN	APICIDIN	chembl:CHEMBL430060	0.33
HDAC11	79885 TTD		PMID296713	PMID29671355-Compound-44			
HDAC2	3066 DTC		2-ENE-VALI	2-ENE-VALPROATE	CHEMBL117487	chembl:CHEMBL117487	0.27
HDAC3	8841 TALC	inhibitor	CUDC-101	CUDC-101	CUDC-101	chembl:CHEMBL598797	0.43
HDAC4	9759 TALC	inhibitor	CUDC-101	CUDC-101	CUDC-101	chembl:CHEMBL598797	0.45
HDAC5	10014 TdgClinicalTrial		RESMINOSTAT	RESMINOSTAT	RESMINOSTAT	chembl:CHEMBL4296717	0.15
HDAC6	10013 TTD		PMID280924	PMID28092474-Compound-32i			
HDAC7	51564 ChemblInteraction	inhibitor	CHEMBL23	TACEDINALINE	TACEDINALINE	chembl:CHEMBL235191	0.47
HDAC8	55869 TTD		PMID296713	PMID29671355-Compound-67			
HDAC9	9734 TALC	inhibitor	SB939	SB939			
HDC	3067 TdgClinicalTrial		BF-DERM1	BF-DERM1			
HDGF	3068 NCI		PROTEIN KIPROTEIN KINASE C INHIBITOR				
HEBP1	50865 TTD		Pyrazino[2,1-Pyrazino[2,1-a]isoquinolin derivative 3				
HERC2	8924 DoCM		NERATINIB	NERATINIB	NERATINIB	chembl:CHEMBL180022	11.57
HES1	3280 NCI		ALL-TRANSALL-TRANS-RETINOIC ACID				
HEXA	3073 DTC		N-ACETYLCN-ACETYLGUCOSAMINICHEMBL257158			chembl:CHEMBL257158	6.37
HEXB	3074 NCI		AMINOGLY AMINOGLYCOSIDES				
HFE	3077 PharmGKB		adalimumab	adalimumab	ADALIMUMAB	chembl:CHEMBL1201580	7.49
HGF	3082 NCI		STI571	STI571	IMATINIB MESYLATE	chembl:CHEMBL1642	1.06
HIF1A	3091 DTC		SP-600125	SP-600125	SP-600125	chembl:CHEMBL1725279	0.01
HIF1AN	55662 DTC		L-4-THIOPR	L-4-THIOPROLINE	CHEMBL1800368	chembl:CHEMBL1800368	21.22
HINT1	3094 PharmGKB		nicotine	nicotine	NICOTINE	chembl:CHEMBL3	2.6
HIPK1	204851 GuideToPharmac	inhibitor	135652717	STAUROSPORINE	STAUROSPORINE	chembl:CHEMBL388978	1.52
HIPK2	28996 GuideToPharmac	inhibitor	249565808	COMPOUND 1A [PMID: 24900749]			
HIPK3	10114 GuideToPharmac	inhibitor	249565806	SILMITASERTIB	SILMITASERTIB	chembl:CHEMBL1230165	10.61
HIPK4	147746 DTC		GEFITINIB	GEFITINIB	GEFITINIB	chembl:CHEMBL939	0.06
HK1	3098 NCI		ADENOVIR	ADENOVIRUS VECTOR			
HK2	3099 TTD		VDA-1102	VDA-1102 topical ointment			
HKDC1	80201 DTC		SJ000044511	SJ000044511	CHEMBL592124	chembl:CHEMBL592124	0.16
HLA-A	3105 PharmGKB		peginterferon	peginterferon alfa-2b			
HLA-B	3106 FDA		Pazopanib	Pazopanib	PAZOPANIB	chembl:CHEMBL477772	0.19
HLA-C	3107 PharmGKB		flucloxacillin	flucloxacillin	FLOXACILLIN	chembl:CHEMBL222645	1.52
HLA-DPA1	3113 PharmGKB		peginterferon	peginterferon alfa-2b			
HLA-DPB1	3115 PharmGKB		clozapine	clozapine	CLOZAPINE	chembl:CHEMBL42	0.9
HLA-DPB2	3116 PharmGKB		aspirin	aspirin	ASPIRIN	chembl:CHEMBL25	0.87
HLA-DQA1	3117 NCI		LYMPHOKI	LYMPHOKINES			
HLA-DQB1	3119 PharmGKB		ticlopidine	ticlopidine	TICLOPIDINE	chembl:CHEMBL833	0.82
HLA-DRA	3122 PharmGKB		amoxicillin	amoxicillin	AMOXICILLIN	chembl:CHEMBL1082	1.25
HLA-DRB1	3123 PharmGKB		flupirtine	flupirtine	FLUPIRTINE	chembl:CHEMBL255044	0.26
HLA-DRB2	3124 ChemblInteraction	modulator	CHEMBL21	(PLOVAMER ACETATE	PLOVAMER ACETATE	chembl:CHEMBL2108712	63.65
HLA-DRB3	3125 PharmGKB		heparin	heparin	HEPARIN	chembl:CHEMBL1909300	1.46
HLA-DRB4	3126 TdgClinicalTrial		1D09C3	1D09C3	1D09C3	chembl:CHEMBL2109518	21.22

HLA-DRB5	3127 PharmGKB	amoxicillin	amoxicillin	AMOXICILLIN	chembl:CHEMBL1082	1.87
HLA-E	3133 PharmGKB	glucocorticoid	glucocorticoids			
HLA-G	3135 PharmGKB	hmg coa reductase	hmg coa reductase inhibitors			
HMBS	3145 TTD	P-9808	P-9808			
HMGB1	3146 NCI	PREDNISOLONE	PREDNISOLONE	PREDNISOLONE	chembl:CHEMBL131	0.45
HMGCR	3156 GuideToPharmacoinhibitor	135649749	COMPOUND 41 [PMID: 17574411]			
HMGCS1	3157 GuideToPharmacoinhibitor	135651558	(S)-3-HYDROXY-3-METHYLGLUTARYL-COA			
HMGCS2	3158 PharmGKB	hydrochlorothiazide	hydrochlorothiazide	HYDROCHLOROTHIAZIDE	chembl:CHEMBL435	1.77
HMMR	3161 PharmGKB	epirubicin	epirubicin	EPIRUBICIN	chembl:CHEMBL417	0.53
HMOX1	3162 NCI	ZNCL2	ZNCL2			
HMOX2	3163 TdgClinicalTrial	STANNSOPORFIN	STANNSOPORFIN	STANNSOPORFIN	chembl:CHEMBL4297207	63.65
HNF1A	6927 JAX-CKB	N/A	N/A			
HNF1B	6928 PharmGKB	platinum	platinum	PLATINUM	chembl:CHEMBL1235478	4.55
HNF4A	3172 NCI	UREA	UREA	UREA	chembl:CHEMBL985	0.94
HNMT	3176 TTD	Amodiaquine	Amodiaquine	AMODIAQUINE	chembl:CHEMBL682	12.73
HNRNPA1	3178 DTC	CAMPTOTHECIN	CAMPTOTHECIN	CAMPTOTHECIN	chembl:CHEMBL65	3.54
HNRNPC	3183 DTC	DABIGATRAN	DABIGATRAN	DABIGATRAN	chembl:CHEMBL48361	14.14
HNRNPH2	3188 PharmGKB	migalastat	migalastat	MIGALASTAT	chembl:CHEMBL110458	15.91
HOMER1	9456 PharmGKB	levodopa	levodopa	LEVODOPA	chembl:CHEMBL1009	1.72
HOTAIR	100124700 PharmGKB	Platinum compounds	Platinum compounds			
HOXA9	3205 NCI	G-CSF	G-CSF	FILGRASTIM	chembl:CHEMBL1201567	11.57
HOXB1	3211 NCI	BROMODEOXYURIDINE	BROMODEOXYURIDINE			
HOXD1	3231 NCI	RETINOIC ACID	RETINOIC ACID			
HP	3240 NCI	HEPATITIS B VACCINE	HEPATITIS B VACCINE			
HPD	3242 TEND	NITISINONE	NITISINONE	NITISINONE	chembl:CHEMBL1337	636.51
HPGD	3248 DTC	SJ000019194	SJ000019194	CHEMBL592106	chembl:CHEMBL592106	0.09
HPGDS	27306 TTD	Praziquantel	Praziquantel	PRAZICQUANTEL	chembl:CHEMBL976	31.83
HPN	3249 TEND	BENTIROMIDE	BENTIROMIDE	BENTIROMIDE	chembl:CHEMBL1200368	190.95
HPRT1	3251 NCI	NITROSOUREAS	NITROSOUREAS			
HPSE	10855 NCI	TGF	TGF			
HR	55806 TTD	Levomequitazine	Levomequitazine			
HRAS	3265 JAX-CKB	Pz-1	Pz-1			
HRH1	3269 GuideToPharmacantagonist	135650208	DOXEPIN	DOXEPIN	chembl:CHEMBL1628227	0.34
HRH2	3274 GuideToPharmacagonist	135651300	UR-PG146			
HRH3	11255 GuideToPharmacagonist	135650397	N-METHYLHISTAMINE	N-METHYLHISTAMINE	chembl:CHEMBL507	0.47
HRH4	59340 GuideToPharmacantagonist	178103918	MK-0249	MK-0249	chembl:CHEMBL476323	0.59
HSD11B1	3290 GuideToPharmacoinhibitor	381118868	BMS-823778	BMS-823778	chembl:CHEMBL4297457	7.07
HSD11B2	3291 TTD	RG-7234	RG-7234			
HSD17B10	3028 DTC	PYRENE	PYRENE	PYRENE	chembl:CHEMBL279564	0.15
HSD17B2	3294 GuideToPharmacoinhibitor	385612198	COMPOUND 24 [PMID: 31343176]			
HSD17B3	3293 DTC	CURCUMIN	CURCUMIN	CURCUMIN	chembl:CHEMBL116438	1.79
HSD3B1	3283 TdgClinicalTrial	TRILOSTANE	TRILOSTANE	TRILOSTANE	chembl:CHEMBL1200907	95.48

HSD3B2	3284 TEND	TRILOSTAN	TRILOSTANE	chembl:CHEMBL1200907	106.09
HSD3B7	80270 PharmGKB	cholic acid	cholic acid		
HSF1	3297 DTC	QUERCETIN	QUERCETIN	chembl:CHEMBL50	0.54
HSP90AA1	3320 DTC	SJ000018300	SJ000018300	chembl:CHEMBL590927	0.08
HSP90AA2P	3324 MyCancerGenon	AUY922	AUY922		
HSP90AB1	3326 DTC	ZERANOL	ZERANOL	chembl:CHEMBL450613	0.24
HSP90B1	7184 GuideToPharmac	381118828 GRP94	INHIBITOR 54		
HSP90B2P	7190 TTD	Heat shock pi	Heat shock protein vaccine		
HSPA1A	3303 PharmGKB	carbamazepir	carbamazepine	CARBAMAZEPINE	chembl:CHEMBL108
HSPA1L	3305 PharmGKB	carbamazepir	carbamazepine	CARBAMAZEPINE	chembl:CHEMBL108
HSPA4	3308 NCI	UREA	UREA	UREA	chembl:CHEMBL985
HSPA5	3309 DTC	STROBOPIN	STROBOPININ	STROBOPININ	chembl:CHEMBL1556958
HSPA8	3312 DTC	NSC-119910	NSC-119910	CHEMBL487046	chembl:CHEMBL487046
HSPA9	3313 TTD	MKT-077	MKT-077	CHEMBL33859	chembl:CHEMBL33859
HSPB1	3315 NCI	DIFFERENT	DIFFERENTIATION AGENTS		
HSPB2	3316 NCI	PS-341	PS-341	BORTEZOMIB	chembl:CHEMBL325041
HSPB6	126393 TTD	AZX-100	AZX-100	AZX-100	chembl:CHEMBL4297902
HSPD1	3329 NCI	CETRORELIC	CETRORELIX	CETRORELIX	chembl:CHEMBL1200490
HSPE1	3336 TTD	XToll	XToll		
HSPG2	3339 PharmGKB	antipsychotic	antipsychotics		
HTR1A	3350 GuideToPharmac	135650536	LYSERGIDE	LYSERGIDE	chembl:CHEMBL263881
HTR1B	3351 GuideToPharmac	135649706	2-METHYL-5-HT		
HTR1D	3352 ChemblInteractio	agonist	CHEMBL20(ERGOTAMINE TARTRATE		
HTR1E	3354 GuideToPharmac	antagonist	135650278 FLUSPIRILENE	FLUSPIRILENE	chembl:CHEMBL46516
HTR1F	3355 GuideToPharmac	agonist	135651095 SUMATRIPTAN	SUMATRIPTAN	chembl:CHEMBL128
HTR2A	3356 TTD	ZOTEPINE	ZOTEPINE	ZOTEPINE	chembl:CHEMBL285802
HTR2B	3357 GuideToPharmac	agonist	135650920 RO 60-0175		
HTR2C	3358 TTD	PMID266098	PMID2660982-Compound-83		
HTR3A	3359 ChemblInteractio	antagonist	CHEMBL21(VORTIOXETINE HYDROB	VORTIOXETINE HYDROBROMII	chembl:CHEMBL2107387
HTR3B	9177 PharmGKB	paroxetine	paroxetine	PAROXETINE	chembl:CHEMBL490
HTR3C	170572 TdgClinical	Trial	VI-0134	VI-0134	
HTR3D	200909 TdgClinical	Trial	PUMOSETR	PUMOSETRAG	chembl:CHEMBL1643880
HTR3E	285242 TdgClinical	Trial	GRANISETR	GRANISETRON	chembl:CHEMBL289469
HTR4	3360 TTD	SB-207266A	SB-207266A		
HTR5A	3361 GuideToPharmac	agonist	135651128 [3H]5-CT		
HTR6	3362 GuideToPharmac	agonist	135651059 CAPESEEROD	CAPESEEROD	chembl:CHEMBL2027925
HTR7	3363 GuideToPharmac	antagonist	135652727 YOHIMBINE	YOHIMBINE	chembl:CHEMBL15245
HTRA1	5654 PharmGKB	bevacizumab	bevacizumab	BEVACIZUMAB	chembl:CHEMBL1201583
HTT	3064 TTD	CUDC-907	CUDC-907	FIMEPINOSTAT	chembl:CHEMBL3622533
HUS1	3364 NCI	CAMPTOTH	CAMPTOTHECIN	CAMPTOTHECIN	chembl:CHEMBL65
HVCN1	84329 GuideToPharmac	blocker	135652747 ZN2+		
HYAL2	8692 NCI	EPINEPHRINE	EPINEPHRINE	EPINEPHRINE	chembl:CHEMBL679

HYKK	123688 PharmGKB	varenicline varenicline	VARENICLINE	chembl:CHEMBL1396	9.09
HYOU1	10525 DTC	DABIGATR/DABIGATRAN	DABIGATRAN	chembl:CHEMBL48361	14.14
IAPP	3375 DTC	CURCUMIN CURCUMIN	CURCUMIN	chembl:CHEMBL116438	0.9
IBSP	3381 NCI	DAIDZEIN DAIDZEIN	DAIDZEIN	chembl:CHEMBL8145	2.77
ICA1	3382 PharmGKB	tramadol tramadol	TRAMADOL	chembl:CHEMBL1237044	7.07
ICAM1	3383 TTD	BI-505 BI-505	BI-505	chembl:CHEMBL2109482	19.1
ICAM2	3384 NCI	IFN IFN			
ICAM3	3385 NCI	CSA CSA	CYCLOSPORINE	chembl:CHEMBL160	0.51
ICMT	23463 DTC	SIMVASTATIN/SIMVASTATIN	SIMVASTATIN	chembl:CHEMBL1064	1.18
ICOS	29851 TTD	MEDI-570 MEDI-570	MEDI-570	chembl:CHEMBL2109449	31.83
ICOSLG	23308 TTD	AMG 557 AMG 557			
IDE	3416 DTC	CALMIDAZOL/CALMIDAZOLIUM CHLOR/CALMIDAZOLIUM CHLORIDE		chembl:CHEMBL1208858	0.64
IDH1	3417 JAX-CKB	BPTES BPTES			
IDH2	3418 JAX-CKB	AG-881 AG-881			
IDH1	3422 GuideToPharmacoinhibitor	135650699 NE21650			
IDO1	3620 TTD	Benzimidazole/Benzimidazole and imadazopyridine carboximidamide compound 1			
IDO2	169355 TTD	2,3-diamino-1,2,3-diamino-benzo[b]thiophene derivative 5			
IDS	3423 TTD	Recombinant Recombinant human iduronate-2-sulfatase			
IFI27	3429 NCI	TNF-ALPHA/TNF-ALPHA			
IFIT2	3433 NCI	IFN IFN			
IFNA1	3439 NCI	POLYPHENOL/POLYPHENOL			
IFNA2	3440 TTD	Interferon alpha/Interferon alpha 2a			
IFNA5	3442 TTD	NAHE-001 NAHE-001			
IFNAR1	3454 TdgClinicalTrial	INTERFERON/INTERFERON ALFA-2A, RECOMBINANT			
IFNAR2	3455 ChemblInteractionagonist	CHEMBL12(PEGINTERFERON ALFA-2)/PEGINTERFERON ALFA-2A		chembl:CHEMBL1201560	2.65
IFNB1	3456 TTD	FP-1201 FP-1201			
IFNG	3458 NCI	CYCLOPHOSPHAMIDE/CYCLOPHOSPHAMIDE		chembl:CHEMBL88	0.09
IFNGR1	3459 NCI	INDOLE-3-CARBINOL/INDOLE-3-CARBINOL		chembl:CHEMBL155625	10.61
IFNGR2	3460 ChemblInteractionagonist	CHEMBL12(INTERFERON GAMA-1B)/INTERFERON GAMMA-1B		chembl:CHEMBL1201564	159.13
IFNL1	282618 TTD	PEG-Interferon lambda (IL-29)/PEG-Interferon lambda (IL-29)			
IFNL3	282617 PharmGKB	boceprevir boceprevir	BOCEPREVIR	chembl:CHEMBL218394	2.34
IFNL4	101180976 PharmGKB	peginterferon/peginterferon alfa-2a			
IFNLR1	163702 TdgClinicalTrial	PEG-INTERFERON/PEG-INTERFERON LAMBA			
IFNR	3466 TTD	HDV-interferon/HDV-interferon			
IFNW1	3467 TTD	ITCA-638 ITCA-638			
IGF1	3479 TTD	BI-836845 BI-836845	XENTUZUMAB	chembl:CHEMBL4297850	15.91
IGF1R	3480 TdgClinicalTrial	OSI-906 OSI-906	LINSITINIB	chembl:CHEMBL1091644	1.68
IGF2	3481 TTD	Xentuzumab Xentuzumab	XENTUZUMAB	chembl:CHEMBL4297850	2.27
IGF2-AS	51214 PharmGKB	Platinum compounds/Platinum compounds			
IGF2BP2	10644 PharmGKB	repaglinide repaglinide	REPAGLINIDE	chembl:CHEMBL1272	4.24
IGF2R	3482 TTD	EP-128504 EP-128504			
IGFBP1	3484 NCI	ORAL CONTRACEPTIVE/ORAL CONTRACEPTIVE			

IGFBP3	3486 PharmGKB	celecoxib	celecoxib	CELECOXIB	chembl:CHEMBL118	0.99
IGFBP4	3487 NCI	PMSG	PMSG			
IGFBP5	3488 NCI	TGFBETA1	TGFBETA1			
IGFBP6	3489 NCI	ANTISERUM	ANTISERUM			
IGH	3492 FDA	Venetoclax	Venetoclax	VENETOCLAX	chembl:CHEMBL3137309	4.55
IGHE	3497 GuideToPharmacantibody	310264775	LIGELIZUMAB	LIGELIZUMAB	chembl:CHEMBL2109457	25.46
IGHG1	3500 TdgClinicalTrial	IGG1	ANTIBIGG1 ANTIBODY			
IHH	3549 NCI	TGFBETA1	TGFBETA1			
IKBKB	3551 TdgClinicalTrial	MLN-0415	MLN-0415	MLN-0415	chembl:CHEMBL3545265	5.79
IKBKE	9641 GuideToPharmacinhibitor	336446965	COMPOUND II [PMID: 21329883]			
IKBKG	8517 PharmGKB	artesanate	artesanate	ARTESUNATE	chembl:CHEMBL361497	2.27
IKZF1	10320 CIViC	FLUDARAB	FLUDARABINE	FLUDARABINE	chembl:CHEMBL1568	1.06
IL10	3586 NCI	FLUTICASO	FLUTICASONE PROPIONATE			
IL10RA	3587 GuideToPharmacagonist	178101673	IL-10	INTERLEUKIN-10	chembl:CHEMBL4297771	12.73
IL10RB	3588 ChemblInteractioagonist	CHEMBL21	(PEGINTERFERON LAMBD	PEGINTERFERON LAMBDA-1A	chembl:CHEMBL2108723	31.83
IL11	3589 NCI	ALENDRONA	ALENDRONATE	ALENDRONIC ACID	chembl:CHEMBL870	2.27
IL11RA	3590 TTD	BMT-11	BMT-11			
IL12A	3592 TdgClinicalTrial	BRIAKINUM	BRIAKINUMAB	BRIAKINUMAB	chembl:CHEMBL1742995	10.61
IL12B	3593 TdgClinicalTrial	BRIAKINUM	BRIAKINUMAB	BRIAKINUMAB	chembl:CHEMBL1742995	12.73
IL12RB2	3595 TdgClinicalTrial	INCELL-100	INCELL-1001+ AD-1001			
IL13	3596 PharmGKB	sunitinib	sunitinib	SUNITINIB	chembl:CHEMBL535	0.4
IL13RA1	3597 TdgClinicalTrial	CINTREDEK	CINTREDEKIN BESUDOTOX			
IL13RA2	3598 TTD	Tralokinumal	Tralokinumab	TRALOKINUMAB	chembl:CHEMBL1743081	10.61
IL15	3600 NCI	LYMPHOKI	LYMPHOKINE-ACTIVATED KILLER CELLS			
IL15RA	3601 GuideToPharmacagonist	178101678	IL-15	INTERLEUKIN 15, RECOMBINANT	chembl:CHEMBL4297989	31.83
IL16	3603 PharmGKB	Platinum cor	Platinum compounds			
IL17A	3605 ChemblInteractioinhibitor	CHEMBL17	SECUKINUMAB	SECUKINUMAB	chembl:CHEMBL1743068	7.96
IL17B	27190 TdgClinicalTrial	VIDOFLUDI	VIDOFLUDIMUS	VIDOFLUDIMUS	chembl:CHEMBL197194	12.73
IL17C	27189 TdgClinicalTrial	VIDOFLUDI	VIDOFLUDIMUS	VIDOFLUDIMUS	chembl:CHEMBL197194	12.73
IL17F	112744 NCI	TNF-ALPHA	TNF-ALPHA			
IL17RA	23765 PharmGKB	Tumor necros	Tumor necrosis factor alpha (TNF-alpha) inhibitors			
IL17RC	84818 NCI	IL-17	IL-17			
IL18	3606 NCI	PPD	PPD			
IL1A	3552 TEND	RILONACEP	RILONACEPT	RILONACEPT	chembl:CHEMBL1201830	21.22
IL1B	3553 NCI	VERAPAMIL	VERAPAMIL	VERAPAMIL	chembl:CHEMBL6966	0.09
IL1R1	3554 ChemblInteractioantagonist	CHEMBL12	(ANAKINRA	ANAKINRA	chembl:CHEMBL1201570	17.24
IL1R2	7850 TEND	ANAKINRA	ANAKINRA	ANAKINRA	chembl:CHEMBL1201570	7.96
IL1RL2	8808 TTD	BI655130	BI655130	SPESOLIMAB	chembl:CHEMBL4297911	63.65
IL1RN	3557 TdgClinicalTrial	AC-201	AC-201	DIACEREIN	chembl:CHEMBL41286	2.36
IL2	3558 NCI	GARLIC EX	GARLIC EXTRACT			
IL20	50604 TTD	NN-8226	NN-8226			
IL21	59067 TTD	IL-21	IL-21	DENENICOKIN	chembl:CHEMBL2107855	15.91

IL21R	50615 TTD	Ab-01	Ab-01			
IL22	50616 ChEMBLInteraction inhibitor	CHEMBL174	FEZAKINUMAB	FEZAKINUMAB	chembl:CHEMBL1743017	190.95
IL23A	51561 TdgClinicalTrial	BRIAKINUM	BRIAKINUMAB	BRIAKINUMAB	chembl:CHEMBL1742995	7.07
IL23R	149233 PharmGKB	celecoxib	celecoxib	CELECOXIB	chembl:CHEMBL118	1.99
IL24	11009 TTD	INGN-241	INGN-241			
IL25	64806 TTD	ALX-0761	ALX-0761	M-1095	chembl:CHEMBL4298023	15.91
IL27	246778 NCI	VACCINE	VACCINE			
IL2RA	3559 TdgClinicalTrial	INCELL-100	INCELL-1001+ AD-1001			
IL2RB	3560 TTD	Leukocyte int	Leukocyte interleukin			
IL2RG	3561 ChEMBLInteractions	CHEMBL12	(DENILEUKIN DIFTITOX	DENILEUKIN DIFTITOX	chembl:CHEMBL1201550	12.73
IL3	3562 PharmGKB	tacrolimus	tacrolimus	TACROLIMUS	chembl:CHEMBL269732	1.87
IL31	386653 TTD	KPL-716	KPL-716			
IL31RA	133396 GuideToPharmacantibody	252827378	NEMOLIZUMAB	NEMOLIZUMAB	chembl:CHEMBL4297794	63.65
IL33	90865 TTD	AMG 282	AMG 282			
IL37	27178 TTD	Tildrakizuma	Tildrakizumab	TILDRAKIZUMAB	chembl:CHEMBL2108681	31.83
IL3RA	3563 TTD	Flotetuzumab	Flotetuzumab	FLOTETUZUMAB	chembl:CHEMBL3990038	12.73
IL4	3565 TTD	Tepoxalin	Tepoxalin	TEPOXALIN	chembl:CHEMBL316040	7.96
IL4R	3566 PharmGKB	Hepatitis vac	Hepatitis vaccines			
IL5	3567 TTD	Mepolizuma	Mepolizumab	MEPOLIZUMAB	chembl:CHEMBL2108429	45.47
IL5RA	3568 TTD	Benralizuma	Benralizumab	BENRALIZUMAB	chembl:CHEMBL1742991	222.78
IL6	3569 PharmGKB	Tumor necro	Tumor necrosis factor alpha (TNF-alpha) inhibitors			
IL6R	3570 TTD	ALX-0061	ALX-0061	VOBARILIZUMAB	chembl:CHEMBL3833343	7.07
IL6ST	3572 DTC	BAZEDOXIF	BAZEDOXIFENE	BAZEDOXIFENE	chembl:CHEMBL46740	10.61
IL7	3574 NCI	RAPAMYCI	RAPAMYCIN	SIROLIMUS	chembl:CHEMBL413	2.27
IL7R	3575 TTD	PF-06342674	PF-06342674			
IL9	3578 TTD	BNZ-1	BNZ-1			
IL9R	3581 NCI	IL-9	IL-9			
ILF3	3609 NCI	CSA	CSA	CYCLOSPORINE	chembl:CHEMBL160	1.03
ILK	3611 TTD	US8754233,	(US8754233, (4-Benzothiazol-2-yl)-1H-pyrazol-3-yl)-[2-(1H-imidazol-4-yl)-ethyl]-amine			
ILKAP	80895 PharmGKB	hydrochloro	hydrochlorothiazide	HYDROCHLOROTHIAZIDE	chembl:CHEMBL435	1.77
IMPA1	3612 ChEMBLInteraction inhibitor	CHEMBL21	(LITHIUM CITRATE HYDR.	LITHIUM CITRATE	chembl:CHEMBL2103738	10.61
IMPDH1	3614 TTD	Ribavirin	Ribavirin	RIBAVIRIN	chembl:CHEMBL1643	1.35
IMPDH2	3615 TEND	MYCOPHEN	MYCOPHENOLATE MOFETIL			
INHA	3623 NCI	ANTISERUM	ANTISERUM			
INHBA	3624 ChEMBLInteraction inhibitor	CHEMBL174	SOTATERCEPT	SOTATERCEPT	chembl:CHEMBL1743073	21.22
INHBE	83729 NCI	GNRH	GNRH	GONADORELIN ACETATE	chembl:CHEMBL1200511	31.83
INPP1	3628 NCI	LITHIUM	LITHIUM	LITHIUM	chembl:CHEMBL2146126	2.77
INPP5A	3632 GuideToPharmac inhibitor	252827501	COMPOUND 5 [NOBLE ET AL., 1992]			
INPP5D	3635 GuideToPharmac activator	315661324	ROSIPTOR	ROSIPTOR	chembl:CHEMBL3989954	63.65
INPPL1	3636 NCI	ANTISENSE	ANTISENSE OLIGONUCLEOTIDES			
INS	3630 TTD	Insulin detem	Insulin detemir			
INSIG2	51141 PharmGKB	antipsychotic:	antipsychotics			

INS-IGF2	723961 PharmGKB	Platinum con	Platinum compounds			
INSR	3643 TTD	Metformin gl	Metformin glycinate			
INSRR	3645 GuideToPharmac	inhibitor	178103995 LINSITINIB	LINSITINIB	chembl:CHEMBL1091644	3.98
INVS	27130 PharmGKB	duloxetine	duloxetine	DULOXETINE	chembl:CHEMBL1175	6.37
IPO11	51194 TdgClinicalTrial	MKC-1	MKC-1	ENMD-981693	chembl:CHEMBL52885	2.36
IPO13	9670 TdgClinicalTrial	MKC-1	MKC-1	ENMD-981693	chembl:CHEMBL52885	2.36
IPO4	79711 TdgClinicalTrial	MKC-1	MKC-1	ENMD-981693	chembl:CHEMBL52885	2.36
IPO7	10527 TdgClinicalTrial	MKC-1	MKC-1	ENMD-981693	chembl:CHEMBL52885	2.36
IPO8	10526 TdgClinicalTrial	MKC-1	MKC-1	ENMD-981693	chembl:CHEMBL52885	2.36
IPO9	55705 TdgClinicalTrial	MKC-1	MKC-1	ENMD-981693	chembl:CHEMBL52885	2.36
IRAK1	3654 DTC	PF-562271	PF-562271	PF-00562271	chembl:CHEMBL1084546	0.03
IRAK3	11213 GuideToPharmac	inhibitor	249565893 COMPOUND R-16 [PMID: 21967808]			
IRAK4	51135 GuideToPharmac	inhibitor	249565762 ND-2110			
IRF1	3659 NCI	CYTOKINES	CYTOKINES			
IRF1-AS1	441108 PharmGKB	hydrochlorotl	hydrochlorothiazide	HYDROCHLOROTHIAZIDE	chembl:CHEMBL435	3.54
IRF2	3660 NCI	IFN	IFN			
IRF3	3661 NCI	IFN	IFN			
IRF6	3664 PharmGKB	interferon bet	interferon beta-1b			
IRS1	3667 TdgClinicalTrial	GS-101	GS-101			
IRS2	8660 NCI	DEXAMETH	DEXAMETHASONE	DEXAMETHASONE	chembl:CHEMBL384467	0.51
ISG15	9636 MyCancerGenon	inhibitor	IRINOTECA IRINOTECAN	IRINOTECAN	chembl:CHEMBL481	1.2
ITGA1	3672 TTD	SAN-300	SAN-300	SAN-300	chembl:CHEMBL4297822	63.65
ITGA11	22801 NCI	IFN	IFN			
ITGA2	3673 TTD	E7820	E7820	E-7820	chembl:CHEMBL4297376	15.91
ITGA2B	3674 TdgClinicalTrial	TIROFIBAN	TIROFIBAN	TIROFIBAN	chembl:CHEMBL916	14.14
ITGA3	3675 GuideToPharmacology	252827506	PEPTIDE LIGAND 2 [PMID: 19055415]			
ITGA4	3676 TTD	Vedolizumab	Vedolizumab			
ITGA5	3678 ChemblInteractio	antagonist	CHEMBL21(VOLOCIXIMAB	VOLOCIXIMAB	chembl:CHEMBL2108061	9.09
ITGAL	3683 DTC	CASEARIN	CASEARINONE B	CASEARINONE B	chembl:CHEMBL459014	7.49
ITGAM	3684 NCI	DMSO	DMSO	DIMETHYL SULFOXIDE	chembl:CHEMBL504	2.12
ITGAV	3685 ChemblInteractio	inhibitor	CHEMBL21(DII7E6	ABITUZUMAB	chembl:CHEMBL2109621	2.55
ITGAX	3687 NCI	PROTEASE	PROTEASE INHIBITORS			
ITGB1	3688 TdgClinicalTrial	FIRATEGRA	FIRATEGRAST	FIRATEGRAST	chembl:CHEMBL2104967	4.71
ITGB2	3689 NCI	LAK CELL	LAK CELL			
ITGB3	3690 PharmGKB	abciximab	abciximab	ABCIXIMAB	chembl:CHEMBL1201584	8.34
ITGB5	3693 TdgClinicalTrial	CNTO-95	CNTO-95	INTETUMUMAB	chembl:CHEMBL1743032	6.37
ITGB6	3694 GuideToPharmac	inhibitor	385612210 COMPOUND 7 [PMID: 31381331]			
ITGB7	3695 ChemblInteractio	antagonist	CHEMBL21(FIRATEGRAST	FIRATEGRAST	chembl:CHEMBL2104967	4.24
ITGB8	3696 TTD	US10035778,	US10035778, Example 16			
ITIH3	3699 PharmGKB	clozapine	clozapine	CLOZAPINE	chembl:CHEMBL42	1.79
ITK	3702 DTC	GO-6976	GO-6976	GO-6976	chembl:CHEMBL302449	0.08
ITPA	3704 PharmGKB	peginterferon	peginterferon alfa-2b			

ITPKA	3706 GuideToPharmac	inhibitor	336446934 GNF362			
ITPKB	3707 GuideToPharmac	inhibitor	336446934 GNF362			
ITPKC	80271 GuideToPharmac	inhibitor	336446934 GNF362			
ITPR1	3708 GuideToPharmac	antagonist	135651544 PIP2			
ITPR2	3709 GuideToPharmac	activator	178101040 INOSITOL 2,4,5-TRISPHOSPHATE			
ITPR3	3710 GuideToPharmac	activator	135652731 CA2+			
IVL	3713 NCI		TOPICAL CCTOPICAL CORTICOSTEROIDS			
JAG1	182 NCI		CORTISOL CORTISOL	HYDROCORTISONE	chembl:CHEMBL389621	3.35
JAK1	3716 CIViC		PEMBROLIZPEMBROLIZUMAB	PEMBROLIZUMAB	chembl:CHEMBL3137343	0.39
JAK2	3717 MyCancerGenon	inhibitor	RUXOLITINRUXOLITINIB	RUXOLITINIB	chembl:CHEMBL1789941	4.01
JAK3	3718 TTD		PyrazolopyricPyrazolopyridine derivative 2			
JUN	3725 DTC		DIPHENHYDIPHENHYDRAMINE HYD	DIPHENHYDRAMINE HYDROCF	chembl:CHEMBL1620	0.36
JUNB	3726 NCI		UVB UVB			
JUND	3727 NCI		CLOZAPINECLOZAPINE	CLOZAPINE	chembl:CHEMBL42	1.79
KAT2A	2648 DTC		PD-146176 PD-146176	CHEMBL180917	chembl:CHEMBL180917	0.25
KAT2B	8850 PharmGKB		amphetamineamphetamine	AMPHETAMINE	chembl:CHEMBL405	0.33
KAT5	10524 GuideToPharmac	inhibitor	187051791 MG149			
KAT8	84148 GuideToPharmac	inhibitor	187051791 MG149			
KCNA1	3736 NCI		BUPIVACAIBUPIVACAINE	BUPIVACAINE	chembl:CHEMBL1098	0.96
KCNA10	3744 GuideToPharmac	blocker	135651305 VERAPAMIL	VERAPAMIL	chembl:CHEMBL6966	0.23
KCNA2	3737 ChemblInteractio	blocker	CHEMBL28<DALFAMPRIDINE	DALFAMPRIDINE	chembl:CHEMBL284348	0.49
KCNA3	3738 ChemblInteractio	blocker	CHEMBL21(NERISPIRDINE	NERISPIRDINE	chembl:CHEMBL2107762	0.21
KCNA4	3739 NCI		VERAPAMIIVERAPAMIL	VERAPAMIL	chembl:CHEMBL6966	0.64
KCNA5	3741 GuideToPharmac	blocker	135650266 FLECAINIDE	FLECAINIDE	chembl:CHEMBL652	0.48
KCNA6	3742 ChemblInteractio	blocker	CHEMBL12(GUANIDINE HYDROCHLC	GUANIDINE HYDROCHLORIDE	chembl:CHEMBL1200728	0.41
KCNA7	3743 ChemblInteractio	blocker	CHEMBL21(NERISPIRDINE	NERISPIRDINE	chembl:CHEMBL2107762	0.16
KCNB1	3745 GuideToPharmac	inhibitor	223366093 GXTX-1E			
KCNB2	9312 ChemblInteractio	blocker	CHEMBL28<DALFAMPRIDINE	DALFAMPRIDINE	chembl:CHEMBL284348	0.89
KCNC1	3746 ChemblInteractio	blocker	CHEMBL21(NERISPIRDINE	NERISPIRDINE	chembl:CHEMBL2107762	0.32
KCNC2	3747 ChemblInteractio	blocker	CHEMBL12(GUANIDINE HYDROCHLC	GUANIDINE HYDROCHLORIDE	chembl:CHEMBL1200728	0.41
KCNC3	3748 ChemblInteractio	blocker	CHEMBL11<TEDISAMIL	TEDISAMIL	chembl:CHEMBL2111110	0.41
KCNC4	3749 ChemblInteractio	blocker	CHEMBL28<DALFAMPRIDINE	DALFAMPRIDINE	chembl:CHEMBL284348	0.37
KCND1	3750 ChemblInteractio	blocker	CHEMBL21(NERISPIRDINE	NERISPIRDINE	chembl:CHEMBL2107762	0.32
KCND2	3751 ChemblInteractio	blocker	CHEMBL28<DALFAMPRIDINE	DALFAMPRIDINE	chembl:CHEMBL284348	0.74
KCND3	3752 ChemblInteractio	blocker	CHEMBL12(GUANIDINE HYDROCHLC	GUANIDINE HYDROCHLORIDE	chembl:CHEMBL1200728	0.41
KCNE1	3753 PharmGKB		quinidine quinidine	QUINIDINE	chembl:CHEMBL1294	0.67
KCNF1	3754 ChemblInteractio	blocker	CHEMBL21(NERISPIRDINE	NERISPIRDINE	chembl:CHEMBL2107762	0.32
KCNG1	3755 ChemblInteractio	blocker	CHEMBL11<TEDISAMIL	TEDISAMIL	chembl:CHEMBL2111110	0.41
KCNG2	26251 ChemblInteractio	blocker	CHEMBL11<TEDISAMIL	TEDISAMIL	chembl:CHEMBL2111110	0.41
KCNG3	170850 ChemblInteractio	blocker	CHEMBL11<TEDISAMIL	TEDISAMIL	chembl:CHEMBL2111110	0.41
KCNH1	3756 GuideToPharmac	blocker	135650345 HALOPERIDOL	HALOPERIDOL	chembl:CHEMBL54	0.07
KCNH2	3757 DTC		BENZTROPBENZTROPINE MESYLAT	BENZTROPINE MESYLATE	chembl:CHEMBL1200383	0.09

KCNH3	23416 ChemblInteractioblocker	CHEMBL28: DALFAMPRIDINE	DALFAMPRIDINE	chembl:CHEMBL284348	0.37	
KCNH4	23415 ChemblInteractioblocker	CHEMBL12(GUANIDINE HYDROCHL	CGUANIDINE HYDROCHLORIDE	chembl:CHEMBL1200728	0.41	
KCNH5	27133 GuideToPharmac blocker	135650872 QUINIDINE	QUINIDINE	chembl:CHEMBL1294	0.67	
KCNH6	81033 GuideToPharmac inhibitor	135652149 ERGTX-1				
KCNH7	90134 ChemblInteractioblocker	CHEMBL11: TEDISAMIL	TEDISAMIL	chembl:CHEMBL2111110	0.41	
KCNH8	131096 ChemblInteractioblocker	CHEMBL12(GUANIDINE HYDROCHL	CGUANIDINE HYDROCHLORIDE	chembl:CHEMBL1200728	0.41	
KCNIP1	30820 PharmGKB	verapamil verapamil	VERAPAMIL	chembl:CHEMBL6966	6.37	
KCNIP4	80333 PharmGKB	Ace Inhibitor: Ace Inhibitors, Plain				
KCNJ1	3758 TTD	PMID260044	PMID26004420-Compound-WO2014150132B			
KCNJ10	3766 TTD	Glisoxepide	Glisoxepide	GLISOXEPIDE	chembl:CHEMBL2106618	7.96
KCNJ11	3767 ChemblInteractioblocker	CHEMBL10: GLIPIZIDE	GLIPIZIDE	chembl:CHEMBL1073	2.19	
KCNJ12	3768 TEND	DOFETILID	DOFETILIDE	DOFETILIDE	chembl:CHEMBL473	15.91
KCNJ13	3769 GuideToPharmac blocker	135649796 FAMPRIDINE	DALFAMPRIDINE	chembl:CHEMBL284348	1.48	
KCNJ14	3770 GuideToPharmac blocker	135652729 BA2+				
KCNJ2	3759 ChemblInteractioblocker	CHEMBL12(DRONEDARONE HYDROCD	RONEDARONE HYDROCHLOR	chembl:CHEMBL1201729	3.98	
KCNJ3	3760 GuideToPharmac activator	135652743 NA+				
KCNJ4	3761 GuideToPharmac blocker	135651249 TETRAETHYLAMMONIUM				
KCNJ5	3762 TdgClinicalTrial	FLUPIRTINE	FLUPIRTINE	FLUPIRTINE	chembl:CHEMBL255044	3.98
KCNJ6	3763 PharmGKB	fentanyl	fentanyl	FENTANYL	chembl:CHEMBL596	0.49
KCNJ8	3764 GuideToPharmac activator	135650138 CROMAKALIM	CROMAKALIM	chembl:CHEMBL49035	7.96	
KCNJ9	3765 GuideToPharmac activator	135651544 PIP2				
KCNK10	54207 GuideToPharmac activator	135650346 HALOTHANE	HALOTHANE	chembl:CHEMBL931	0.68	
KCNK12	56660 GuideToPharmac inhibitor	135650346 HALOTHANE	HALOTHANE	chembl:CHEMBL931	2.05	
KCNK13	56659 GuideToPharmac inhibitor	135650346 HALOTHANE	HALOTHANE	chembl:CHEMBL931	2.05	
KCNK16	83795 GuideToPharmac activator	53801075 ISOFLURANE	ISOFLURANE	chembl:CHEMBL1256	0.55	
KCNK17	89822 GuideToPharmac activator	178100228 NO	NITRIC OXIDE	chembl:CHEMBL1200689	5.3	
KCNK18	338567 ChemblInteractions	CHEMBL12: ENFLURANE	ENFLURANE	chembl:CHEMBL1257	0.41	
KCNK2	3776 ChemblInteractions	CHEMBL12(SEVOFLURANE	SEVOFLURANE	chembl:CHEMBL1200694	0.19	
KCNK3	3777 ChemblInteractioblocker	CHEMBL12(DOXAPRAM HYDROCHL	CDOXAPRAM HYDROCHLORIDE	chembl:CHEMBL1200876	3.98	
KCNK4	50801 GuideToPharmac activator	135650900 RILUZOLE	RILUZOLE	chembl:CHEMBL744	2.77	
KCNK5	8645 GuideToPharmac blocker	135650872 QUINIDINE	QUINIDINE	chembl:CHEMBL1294	1.68	
KCNK9	51305 ChemblInteractions	CHEMBL12(DESFLURANE	DESFLURANE	chembl:CHEMBL1200733	0.3	
KCNMA1	3778 ChemblInteractioactivator	CHEMBL11: ANDOLAST	ANDOLAST	chembl:CHEMBL119549	3.54	
KCNMB1	3779 PharmGKB	verapamil verapamil	VERAPAMIL	chembl:CHEMBL6966	6.37	
KCNN1	3780 GuideToPharmac activator	318164832 GW542573X				
KCNN2	3781 GuideToPharmac blocker	135651249 TETRAETHYLAMMONIUM				
KCNN3	3782 GuideToPharmac blocker	135652375 P05				
KCNN4	3783 ChemblInteractioblocker	CHEMBL40: SENICAPOC	SENICAPOC	chembl:CHEMBL405821	38.19	
KCNQ1	3784 TEND	INDAPAMID	INDAPAMIDE	INDAPAMIDE	chembl:CHEMBL406	6.82
KCNQ2	3785 GuideToPharmac activator	135651544 PIP2				
KCNQ3	3786 TTD	ICA-105665	ICA-105665			
KCNQ4	9132 GuideToPharmac inhibitor	135651334 XE991				

KCNQ5	56479 PharmGKB	irinotecan	irinotecan	IRINOTECAN	chembl:CHEMBL481	0.24
KCNS1	3787 ChemblInteractio	blocker	CHEMBL12(GUANIDINE HYDROCHL	CGUANIDINE HYDROCHLORIDE	chembl:CHEMBL1200728	0.41
KCNS2	3788 ChemblInteractio	blocker	CHEMBL12(GUANIDINE HYDROCHL	CGUANIDINE HYDROCHLORIDE	chembl:CHEMBL1200728	0.41
KCNS3	3790 ChemblInteractio	blocker	CHEMBL12(GUANIDINE HYDROCHL	CGUANIDINE HYDROCHLORIDE	chembl:CHEMBL1200728	0.41
KCNT1	57582 TTD		phorbol 12-mphorbol 12-myristate 13-acetate			
KCNT2	343450 GuideToPharmac	blocker	135651249 TETRAETHYLAMMONIUM			
KCNU1	157855 GuideToPharmac	activator	178101088 NS004			
KCNV1	27012 ChemblInteractio	blocker	CHEMBL11:TEDISAMIL	TEDISAMIL	chembl:CHEMBL2111110	0.41
KCNV2	169522 ChemblInteractio	blocker	CHEMBL28: DALFAMPRIDINE	DALFAMPRIDINE	chembl:CHEMBL284348	0.37
KDM1A	23028 GuideToPharmac	inhibitor	178103603 NCL-1			
KDM1B	221656 TTD		Tamylcypron Tamylcypromine derivative 3			
KDM2A	22992 GuideToPharmac	inhibitor	178103604 DAMINOZIDE			
KDM3A	55818 GuideToPharmac	inhibitor	249565910 IOX1			
KDM4A	9682 DTC		CLOFAZIMICLOFAZIMINE	CLOFAZIMINE	chembl:CHEMBL1292	0.03
KDM4C	23081 DTC		PYROGALLPYROGALLOL RED	PYROGALLOL RED	chembl:CHEMBL210208	0.21
KDM4D	55693 DTC		N-METHOX N-METHOXYCARBONYLM	CHEMBL92309	chembl:CHEMBL92309	21.22
KDM4E	390245 DTC		NSC-50654 NSC-50654	CHEMBL1372046	chembl:CHEMBL1372046	0.05
KDM5A	5927 TTD		BDBM50158BDBM50158803			
KDM5B	10765 GuideToPharmac	inhibitor	375973270 COMPOUND 9 [DOI:10.26434/CHEMRXIV.7072592.V1]			
KDM5C	8242 GuideToPharmac	inhibitor	310264759 GSK-J4			
KDM6A	7403 OncoKB		Tazemetostat Tazemetostat	TAZEMETOSTAT	chembl:CHEMBL3414621	12.73
KDM6B	23135 GuideToPharmac	inhibitor	310264759 GSK-J4			
KDM7A	80853 GuideToPharmac	inhibitor	178103604 DAMINOZIDE			
KDR	3791 TdgClinicalTrial		LENVATINILENVATINIB	LENVATINIB	chembl:CHEMBL1289601	0.23
KEAP1	9817 ChemblInteractio	inhibitor	CHEMBL17:BARDOXOLONE METHYLB	BARDOXOLONE METHYL	chembl:CHEMBL1762621	2.65
KHK	3795 PharmGKB		fructose fructose	FRUCTOSE	chembl:CHEMBL604608	63.65
KHSRP	8570 DTC		GO-Y030 GO-Y030	CHEMBL598509	chembl:CHEMBL598509	63.65
KIF11	3832 TdgClinicalTrial		ARQ-621 ARQ-621			
KIF6	221458 PharmGKB		atorvastatin atorvastatin	ATORVASTATIN	chembl:CHEMBL1487	1.59
KIR2DL1	3802 ChemblInteractio	inhibitor	CHEMBL21(IPH-2101	IPH-2101	chembl:CHEMBL2109498	6.37
KIR2DL2	3803 ChemblInteractio	inhibitor	CHEMBL21(IPH-2101	IPH-2101	chembl:CHEMBL2109498	19.1
KIR2DL3	3804 TTD		IPH-2101 IPH-2101	IPH-2101	chembl:CHEMBL2109498	19.1
KIR2DS1	3806 TTD		IPH-2101 IPH-2101	IPH-2101	chembl:CHEMBL2109498	25.46
KIR2DS2	100132285 TTD		IPH-2101 IPH-2101	IPH-2101	chembl:CHEMBL2109498	25.46
KIR2DS4	3809 PharmGKB		methotrexate methotrexate	METHOTREXATE	chembl:CHEMBL34259	1.18
KIR3DL2	3812 TTD		IPH4102 IPH4102	LACUTAMAB	chembl:CHEMBL4297998	63.65
KIR3DL3	115653 ClarityFoundationClinical		N/A N/A			
KISS1	3814 TTD		TAK-448 TAK-448	TAK-448	chembl:CHEMBL3924151	31.83
KISS1R	84634 GuideToPharmac	agonist	381744904 TAK-448	TAK-448	chembl:CHEMBL3924151	10.61
KIT	3815 TTD		Pazopanib H(Pazopanib HCl			
KL	9365 PharmGKB		corticosteroidcorticosteroids			
KLB	152831 TTD		NGM313 NGM313			

KLC1	3831 PharmGKB	fluorouracil	fluorouracil	FLUOROURACIL	chembl:CHEMBL185	0.4
KLC3	147700 PharmGKB	gemcitabine	gemcitabine	GEMCITABINE	chembl:CHEMBL888	0.2
KLF4	9314 TTD	APTO-253	APTO-253	APTO-253	chembl:CHEMBL4297261	31.83
KLF5	688 DTC	OUABAIN	OUABAIN	OUABAIN	chembl:CHEMBL222863	1.77
KLK1	3816 TEND	ECALLANTIDE	ECALLANTIDE	ECALLANTIDE	chembl:CHEMBL1201837	31.83
KLK14	43847 GuideToPharmac	inhibitor	252166696 COMPOUND 3 [PMID: 23849879]			
KLK2	3817 GuideToPharmac	inhibitor	252166692 PEPTIDE KLK2B(C1)			
KLK3	354 ChemblInteractio	inhibitor	CHEMBL12(ECALLANTIDE	ECALLANTIDE	chembl:CHEMBL1201837	0.88
KLK4	9622 TTD	Benzyl amine	Benzyl amine derivative 1			
KLK5	25818 GuideToPharmac	inhibitor	252166696 COMPOUND 3 [PMID: 23849879]			
KLK6	5653 GuideToPharmac	inhibitor	404859022 DKFZ-251			
KLK7	5650 GuideToPharmac	inhibitor	252166696 COMPOUND 3 [PMID: 23849879]			
KLK8	11202 GuideToPharmac	inhibitor	404859023 COMPOUND 32 [PMID: 31675166]			
KLKB1	3818 TTD	KVD001	KVD001			
KLRC1	3821 TTD	Monalizumab	Monalizumab	MONALIZUMAB	chembl:CHEMBL4297787	127.3
KLRD1	3824 PharmGKB	adalimumab	adalimumab	ADALIMUMAB	chembl:CHEMBL1201580	1.87
KLRK1	22914 TTD	CYAD-101	CYAD-101			
KMO	8564 TTD	Pyrimidine bc	Pyrimidine benzenesulfonamide derivative 2			
KMT2A	4297 DTC	DIFLUFENIC	DIFLUFENICAN	DIFLUFENICAN	chembl:CHEMBL1425995	0.42
KMT2C	58508 CIViC	EXEMESTA	EXEMESTANE	EXEMESTANE	chembl:CHEMBL1200374	3.03
KMT2D	8085 CIViC	HDAC INHIBIT	HDAC INHIBITOR AR-42			
KMT2E	55904 PharmGKB	duloxetine	duloxetine	DULOXETINE	chembl:CHEMBL1175	6.37
KMT5A	387893 GuideToPharmac	inhibitor	178102575 CDK4 INHIBITOR III			
KMT5B	51111 GuideToPharmac	inhibitor	310264730 A-196			
KMT5C	84787 GuideToPharmac	inhibitor	310264730 A-196			
KNG1	3827 PharmGKB	hormonal con	hormonal contraceptives for systemic use			
KRAS	3845 JAX-CKB	lenalidomide	lenalidomide	LENALIDOMIDE	chembl:CHEMBL848	0.07
KRT10	3858 NCI	EGFR TYROE	EGFR TYROSINE KINASE INHIBITOR			
KRT17	3872 NCI	IFN	IFN			
KRT18	3875 NCI	ANTIVIRAL	ANTIVIRAL			
KRT19	3880 NCI	PD-98059	PD-98059	CHEMBL35482	chembl:CHEMBL35482	1.72
KRT20	54474 NCI	CISPLATIN	CISPLATIN	CISPLATIN	chembl:CHEMBL11359	0.88
KRT6A	3853 TdgClinicalTrial	TD101	TD101			
KYAT1	883 DTC	TRANS-3-INTRANS-3-INDOLEACRYLI	CHEMBL445966		chembl:CHEMBL445966	42.43
L1CAM	3897 TTD	CD171 specific	CD171 specific CAR T cells expressing EGFRt			
L3MBTL1	26013 DTC	NSC-175743	NSC-175743	CHEMBL1609016	chembl:CHEMBL1609016	0.29
L3MBTL3	84456 GuideToPharmac	agonist	249565912 UNC1215			
LAG3	3902 TTD	FS118	FS118			
LAMA1	284217 ChemblInteractions	CHEMBL205OCRIPLASMIN	CHEMBL205OCRIPLASMIN	OCRIPLASMIN	chembl:CHEMBL2095222	1.72
LAMA2	3908 ChemblInteractions	CHEMBL205OCRIPLASMIN	CHEMBL205OCRIPLASMIN	OCRIPLASMIN	chembl:CHEMBL2095222	1.72
LAMA3	3909 ChemblInteractions	CHEMBL205OCRIPLASMIN	CHEMBL205OCRIPLASMIN	OCRIPLASMIN	chembl:CHEMBL2095222	1.72
LAMA4	3910 ChemblInteractions	CHEMBL205OCRIPLASMIN	CHEMBL205OCRIPLASMIN	OCRIPLASMIN	chembl:CHEMBL2095222	1.72

LAMA5	3911 ChEMBLInteractions	CHEMBL209OCRIPLASMIN	OCRIPLASMIN	chembl:CHEMBL2095222	1.72
LAMB1	3912 ChEMBLInteractions	CHEMBL209OCRIPLASMIN	OCRIPLASMIN	chembl:CHEMBL2095222	1.72
LAMB2	3913 ChEMBLInteractions	CHEMBL209OCRIPLASMIN	OCRIPLASMIN	chembl:CHEMBL2095222	1.72
LAMB3	3914 ChEMBLInteractions	CHEMBL209OCRIPLASMIN	OCRIPLASMIN	chembl:CHEMBL2095222	1.72
LAMB4	22798 ChEMBLInteractions	CHEMBL209OCRIPLASMIN	OCRIPLASMIN	chembl:CHEMBL2095222	1.72
LAMC2	3918 ChEMBLInteractions	CHEMBL209OCRIPLASMIN	OCRIPLASMIN	chembl:CHEMBL2095222	1.72
LAMC3	10319 ChEMBLInteractions	CHEMBL209OCRIPLASMIN	OCRIPLASMIN	chembl:CHEMBL2095222	1.72
LAMP1	3916 NCI	DIMETHYL DIMETHYL SULFOXIDE			
LANCL2	55915 GuideToPharmacology	384403642 ABSCISIC ACID			
LAP3	51056 ChEMBLInteractioinhibitor	CHEMBL21(TOSEDOSTAT	TOSEDOSTAT	chembl:CHEMBL2103847	3.35
LAT	27040 DTC	TRIDOLGOSTRIDOLGOSIR	TRIDOLGOSIR	chembl:CHEMBL371197	42.43
LATS2	26524 GuideToPharmacinhibitor	249565889 COMPOUND 35 [PMID: 20684608]			
LCAT	3931 TTD	MEDI6012 MEDI6012	RECOMBINANT HUMAN LECITIN	chembl:CHEMBL4297868	31.83
LCK	3932 GuideToPharmacinhibitor	315661265 ECF506			
LCT	3938 NCI	DMM DMM			
LDHA	3939 NCI	ANTHRACYANTHRACYCLINES			
LDLR	3949 TTD	Porfimer Sod Porfimer Sodium			
LEP	3952 NCI	NICOTINE CNICOTINE GUM			
LEPR	3953 PharmGKB	antipsychotic:antipsychotics			
LGALS1	3956 TTD	US8703720, US8703720, Reference Compound 2			
LGALS2	3957 NCI	MITOMYCINMITOMYCIN C			
LGALS3	3958 DTC	LACTOSE, ALACTOSE, ANHYDROUS	LACTOSE, ANHYDROUS	chembl:CHEMBL417016	13.64
LGALS8	3964 DTC	LACTOSE, ALACTOSE, ANHYDROUS	LACTOSE, ANHYDROUS	chembl:CHEMBL417016	18.19
LGALS9	3965 DTC	LACTOSE, ALACTOSE, ANHYDROUS	LACTOSE, ANHYDROUS	chembl:CHEMBL417016	18.19
LGMN	5641 GuideToPharmacinhibitor	252166833 COMPOUND 7U [PMID: 24775305]			
LGR4	55366 GuideToPharmacagonist	178100589 R-SPONDIN-4			
LGR5	8549 PharmGKB	fluorouracil fluorouracil	FLUOROURACIL	chembl:CHEMBL185	1.21
LGR6	59352 GuideToPharmacagonist	178102181 R-SPONDIN-1			
LHCGR	3973 ChEMBLInteractioagonist	CHEMBL12(CHORIOGONADOTROPIN	CHORIOGONADOTROPIN ALFA	chembl:CHEMBL1201464	10.61
LHFPL3	375612 PharmGKB	corticosteroidcorticosteroids			
LIF	3976 NCI	RETINOIC ARETINOIC ACID			
LIFR	3977 TTD	Emfilermin Emfilermin	EMFILERMIN	chembl:CHEMBL2108400	127.3
LIG1	3978 TEND	BLEOMYCINBLEOMYCIN	BLEOMYCIN	chembl:CHEMBL403664	10.05
LIG3	3980 PharmGKB	cyclophosphacyclophosphamide	CYCLOPHOSPHAMIDE	chembl:CHEMBL88	0.81
LILRA4	23547 GuideToPharmacantibody	315661209 ANTI-ILT7 ANTIBODY			
LIMK1	3984 DTC	PAZOPANIBPAZOPANIB	PAZOPANIB	chembl:CHEMBL477772	0.07
LIMK2	3985 GuideToPharmacinhibitor	249565831 COMPOUND 14 [PMID: 19831390]			
LINC00251	552859 PharmGKB	vincristine vincristine	VINCRIStINE	chembl:CHEMBL90555	0.22
LINGO1	84894 GuideToPharmacantibody	310264704 OPICINUMAB	OPICINUMAB	chembl:CHEMBL3544922	190.95
LIPA	3988 NCI	TRIFLUOPE TRIFLUOPERAZINE	TRIFLUOPERAZINE	chembl:CHEMBL422	0.91
LIPC	3990 NCI	ETHANOL ETHANOL	ALCOHOL	chembl:CHEMBL545	0.21
LIPE	3991 GuideToPharmacinhibitor	178103313 COMPOUND 41 [PMID: 15026062]			

LIPF	8513 TdgClinicalTrial	GT 389-255	GT 389-255			
LIPG	9388 TTD	GSK-264220	GSK-264220A			
LKAAEAR1	198437 PharmGKB	opioids	opioids			
LMNA	4000 DTC	HISTAMINE	HISTAMINE	HISTAMINE	chembl:CHEMBL90	2.89
LMO2	4005 NCI	LITHIUM	LITHIUM	LITHIUM	chembl:CHEMBL2146126	2.77
LNPEP	4012 TTD	US10059720	US10059720, Example 82			
LOH19CR1	8378 NCI	PREDNISOL	PREDNISOLONE	PREDNISOLONE	chembl:CHEMBL131	0.98
LOX	4015 GuideToPharmac	inhibitor	385612244	CCT365623		
LOXL2	4017 TTD	GS-6624	GS-6624	SIMTUZUMAB	chembl:CHEMBL2109667	190.95
LPA	4018 PharmGKB	hmg coa reductase	hmg coa reductase inhibitors			
LPAR1	1902 GuideToPharmac	antagonist	252166789	ONO-3080573		
LPAR2	9170 GuideToPharmac	antagonist	135650457	KI16425		
LPAR3	23566 GuideToPharmac	antagonist	178102101	VPC32179		
LPAR4	2846 GuideToPharmac	antagonist	135649931	AM966		
LPAR5	57121 GuideToPharmac	antagonist	329968439	TCLPA5		
LPAR6	10161 TdgClinicalTrial	MC-1	MC-1			
LPIN1	23175 PharmGKB	rosiglitazone	rosiglitazone	ROSIGLITAZONE	chembl:CHEMBL121	4.9
LPL	4023 NCI	INSULIN	INSULIN	INSULIN	chembl:CHEMBL1201631	0.21
LPO	4025 NCI	DEXTRAN	DEXTRAN SULFATE	SODIUM		
LRMDA	83938 PharmGKB	tamoxifen	tamoxifen	TAMOXIFEN	chembl:CHEMBL83	2.16
LRP1	4035 NCI	ANTISENSE	ANTISENSE OLIGONUCLEOTIDES			
LRP1B	53353 CIViC	DOXORUBIN	DOXORUBICIN	DOXORUBICIN	chembl:CHEMBL53463	1.35
LRP2	4036 PharmGKB	cisplatin	cisplatin	CISPLATIN	chembl:CHEMBL11359	1.76
LRRC15	131578 PharmGKB	metoprolol	metoprolol	METOPROLOL	chembl:CHEMBL13	2.65
LRRC59	55379 DTC	MELAGATRAN	MELAGATRAN	MELAGATRAN	chembl:CHEMBL266349	21.22
LRRK2	120892 DTC	AZD-1775	AZD-1775	ADAVOSERTIB	chembl:CHEMBL1976040	0.09
LSS	4047 GuideToPharmac	inhibitor	178103329	COMPOUND 9 [PMID: 22533316]		
LST1	7940 PharmGKB	abacavir	abacavir	ABACAVIR	chembl:CHEMBL1380	5.79
LTA	4049 PharmGKB	carbamazepir	carbamazepine	CARBAMAZEPINE	chembl:CHEMBL108	0.68
LTA4H	4048 NCI	ANTIINFLAM	ANTIINFLAMMATORY AGENTS			
LTB	4050 PharmGKB	abacavir	abacavir	ABACAVIR	chembl:CHEMBL1380	2.89
LTB4R	1241 ChemblInteractio	antagonist	CHEMBL174	AMELUBANT	chembl:CHEMBL1742420	38.19
LTB4R2	56413 GuideToPharmac	antagonist	178100381	LY255283		
LTBR	4055 GuideToPharmacology		178101763	LIGHT		
LTC4S	4056 GuideToPharmac	inhibitor	385612238	AZD9898		
LTF	4057 NCI	BACITRACIN	BACITRACIN	BACITRACIN	chembl:CHEMBL1200558	10.61
LTK	4058 DTC	PAZOPANIB	PAZOPANIB	PAZOPANIB	chembl:CHEMBL477772	0.06
LUM	4060 NCI	FAS LIGANIFAS	LIGAND			
LVRN	206338 ChemblInteractio	inhibitor	CHEMBL21	TOSEDOSTAT	chembl:CHEMBL2103847	3.35
LY96	23643 ChemblInteractio	antagonist	CHEMBL33	ERITORAN TETRASODIUM	chembl:CHEMBL3301672	31.83
LYN	4067 DTC	CYC-116	CYC-116	CYC-116	chembl:CHEMBL482967	0.02
LYVE1	10894 TTD	Hyaluronate	sHyaluronate sodium			

M6PR	4074 TTD	Alglucosidas	Alglucosidase alfa			
MAD1L1	8379 PharmGKB	carboplatin	carboplatin	CARBOPLATIN	chembl:CHEMBL1351	0.81
MADCAM1	8174 ChEMBLInteraction	inhibitor	CHEMBL21(PF-00547659)	ONTAMALIMAB	chembl:CHEMBL2109511	63.65
MAFB	9935 PharmGKB	Tumor necros	Tumor necrosis factor alpha (TNF-alpha) inhibitors			
MAFK	7975 PharmGKB	isoniazid	isoniazid	ISONIAZID	chembl:CHEMBL64	14.69
MAG	4099 TTD	GSK249320	GSK249320	REFANEZUMAB	chembl:CHEMBL3545317	31.83
MAGEA1	4100 NCI	ARA-C	ARA-C			
MAGEA12	4111 TALC	vaccine	MAGE-12 PIMAGE-12 PEPTIDE VACCINE			
MAGEA3	4102 TTD	Astuprotimut	Astuprotimut-R	ASTUPROTIMUT-R	chembl:CHEMBL2108705	95.48
MAGEA4	4103 TTD	CAR-T cells	CAR-T cells targeting MAGE-A4			
MAGEC1	9947 TTD	CV-9201	CV-9201			
MAGEC2	51438 TTD	CV-9201	CV-9201			
MALAT1	378938 TTD	Cilobradine	Cilobradine	CILOBRADINE	chembl:CHEMBL1436376	4.24
MALT1	10892 GuideToPharmac	inhibitor	354702255 PECAZINE	MEPAZINE	chembl:CHEMBL395110	63.65
MAN2C1	4123 TTD	M-0011	M-0011			
MAOA	4128 TTD	Cyclic peptid	Cyclic peptide derivative 1			
MAOB	4129 TdgClinicalTrial	PHENELZIN	PHENELZINE	PHENELZINE	chembl:CHEMBL1089	1.25
MAP2	4133 NCI	MELATONIN	MELATONIN	MELATONIN	chembl:CHEMBL45	2.36
MAP2K1	5604 ClarityFoundationClinical	SELUMETIN	SELUMETINIB	SELUMETINIB	chembl:CHEMBL1614701	0.87
MAP2K2	5605 ChEMBLInteraction	inhibitor	CHEMBL21:Refametinib	REFAMETINIB	chembl:CHEMBL1236682	0.67
MAP2K3	5606 MyCancerGenom	inhibitor	TRAMETINITRAMETINIB	TRAMETINIB	chembl:CHEMBL2103875	0.25
MAP2K4	6416 MyCancerGenom	inhibitor	TRAMETINITRAMETINIB	TRAMETINIB	chembl:CHEMBL2103875	0.22
MAP2K5	5607 MyCancerGenom	inhibitor	AZD6244 AZD6244	SELUMETINIB	chembl:CHEMBL1614701	0.36
MAP2K6	5608 MyCancerGenom	inhibitor	TRAMETINITRAMETINIB	TRAMETINIB	chembl:CHEMBL2103875	0.22
MAP2K7	5609 MyCancerGenom	inhibitor	GDC-0973 GDC-0973	COBIMETINIB	chembl:CHEMBL2146883	2.27
MAP3K1	4214 PharmGKB	cisplatin	cisplatin	CISPLATIN	chembl:CHEMBL11359	0.11
MAP3K10	4294 DTC	DOVITINIB	DOVITINIB	DOVITINIB	chembl:CHEMBL522892	0.12
MAP3K11	4296 GuideToPharmac	inhibitor	249565853 CEP-1347	CEP-1347	chembl:CHEMBL290352	28.29
MAP3K12	7786 GuideToPharmac	inhibitor	374883875 COMPOUND 16D [TAO ET AL., 2009]			
MAP3K13	9175 ChEMBLInteraction	inhibitor	CHEMBL29(CEP-1347)	CEP-1347	chembl:CHEMBL290352	7.07
MAP3K14	9020 GuideToPharmac	inhibitor	374883851 NIK SMII			
MAP3K19	80122 GuideToPharmac	inhibitor	249565898 COMPOUND 1 [PMID: 24793884]			
MAP3K2	10746 TTD	CI-1040	CI-1040	CI-1040	chembl:CHEMBL105442	2.77
MAP3K20	51776 DTC	CYC-116	CYC-116	CYC-116	chembl:CHEMBL482967	0.04
MAP3K3	4215 GuideToPharmac	inhibitor	249565888 COMPOUND 5N [PMID: 20483621]			
MAP3K5	4217 TTD	GS-4997	GS-4997	SELONSERTIB	chembl:CHEMBL3916717	95.48
MAP3K6	9064 GuideToPharmac	inhibitor	249565813 COMPOUND 10 [PMID: 23147077]			
MAP3K7	6885 GuideToPharmac	inhibitor	329968393 COMPOUND 12 [PMID: 27448772]			
MAP3K8	1326 GuideToPharmac	inhibitor	178102629 MEK INHIBITOR II			
MAP3K9	4293 ChEMBLInteraction	inhibitor	CHEMBL29(CEP-1347)	CEP-1347	chembl:CHEMBL290352	3.54
MAP4K2	5871 GuideToPharmac	inhibitor	249565754 NG-25			
MAP4K3	8491 GuideToPharmac	inhibitor	384403668 RIPK3 INHIBITOR 18			

MAP4K4	9448 DTC	CYC-116	CYC-116	CYC-116	chembl:CHEMBL482967	0.02	
MAP4K5	11183 DTC	CYC-116	CYC-116	CYC-116	chembl:CHEMBL482967	0.02	
MAPK1	5594 DTC	PROGESTE	PROGESTERONE	PROGESTERONE	chembl:CHEMBL103	0.01	
MAPK10	5602 DTC	DORAMAPI	DORAMAPIMOD	DORAMAPIMOD	chembl:CHEMBL103667	0.1	
MAPK11	5600 PharmGKB	sorafenib	sorafenib	SORAFENIB	chembl:CHEMBL1336	0.06	
MAPK12	6300 DTC	SB-202190	SB-202190	SB-202190	chembl:CHEMBL278041	0.14	
MAPK13	5603 DTC	OPHIOBOLI	OPHIOBOLIN O	OPHIOBOLIN O	chembl:CHEMBL1934283	0.88	
MAPK14	1432 DTC	SORAFENIB	SORAFENIB	SORAFENIB	chembl:CHEMBL1336	0.03	
MAPK15	225689 GuideToPharmac	inhibitor	249565856 BS-194				
MAPK3	5595 DTC	(+)-ISOBICY	(+)-ISOBICYCLOGERMACI	CHEMBL2333548	chembl:CHEMBL2333548	0.8	
MAPK4	5596 PharmGKB	sorafenib	sorafenib	SORAFENIB	chembl:CHEMBL1336	1.53	
MAPK6	5597 PharmGKB	sorafenib	sorafenib	SORAFENIB	chembl:CHEMBL1336	1.53	
MAPK7	5598 TdgClinicalTrial	TG02, SB131	TG02, SB131				
MAPK8	5599 DTC	JNJ-7706621	JNJ-7706621	JNJ-7706621	chembl:CHEMBL191003	0.03	
MAPK9	5601 NCI	CAMPTOTH	CAMPTOTHECIN	CAMPTOTHECIN	chembl:CHEMBL65	0.11	
MAPKAP1	79109 MyCancerGenom	inhibitor	OSI-027	OSI-027	OSI-027	chembl:CHEMBL3120215	2.12
MAPKAP2	9261 GuideToPharmac	inhibitor	249565843 COMPOUND 33	[PMID: 19364658]			
MAPKAPK3	7867 GuideToPharmac	inhibitor	249565857 COMPOUND 16	[PMID: 17480064]			
MAPKAPK5	8550 GuideToPharmac	inhibitor	363894142 GALAPAGOS	MAPKAPK5 INHIBITOR D			
MAPT	4137 DTC	DIHYDROX.	DIHYDROXANTHOHUMO	DIHYDROXANTHOHUMOL	chembl:CHEMBL510279	0.02	
MARCHF8	220972 TTD	Aflunov	Aflunov				
MARCKS	4082 TTD	BIO-11006	BIO-11006	BIO-11006	chembl:CHEMBL4297701	63.65	
MARCKSL1	65108 NCI	IFN	IFN				
MARK1	4139 GuideToPharmac	inhibitor	249565590 7-HYDROXYSTA	UROSPOICHEMBL1236539	chembl:CHEMBL1236539	2.45	
MARK2	2011 DTC	TOZASERTI	TOZASERTIB	TOZASERTIB	chembl:CHEMBL572878	0.05	
MARK3	4140 DTC	ALSTERPAU	ALSTERPAULLONE	ALSTERPAULLONE	chembl:CHEMBL50894	0.06	
MARK4	57787 DTC	JNJ-7706621	JNJ-7706621	JNJ-7706621	chembl:CHEMBL191003	0.2	
MAS1	4142 TTD	Angiotensin-	(Angiotensin-(1-7))				
MASP2	10747 TTD	OMS721	OMS721	NARSOPLIMAB	chembl:CHEMBL4298195	63.65	
MAST3	23031 GuideToPharmac	inhibitor	252827499 COMPOUND 35	[PMID: 23916259]			
MAT1A	4143 NCI	ANTISENSE	ANTISENSE OLIGONUCLEOTIDES				
MAT2A	4144 TTD	AG-270	AG-270				
MATK	4145 DTC	SP-600125	SP-600125	SP-600125	chembl:CHEMBL1725279	0.18	
MAZ	4150 NCI	IL-1	IL-1				
MBD4	8930 CIViC	PD1 INHIBIT	PD1 INHIBITOR				
MBL2	4153 NCI	DANAZOL	DANAZOL	DANAZOL	chembl:CHEMBL1479	7.96	
MBNL1	4154 DTC	MITOXANT.	MITOXANTRONE	MITOXANTRONE	chembl:CHEMBL58	0.13	
MBOAT4	619373 TTD	PMID254706	PMID25470667-Compound-GO-CoA-Tat				
MBP	4155 NCI	BIOFLAVON	BIOFLAVONOID				
MBTPS1	8720 GuideToPharmac	inhibitor	252827485 COMPOUND 7B	[PMID: 17583500]			
MC1R	4157 GuideToPharmac	agonist	135652303 MS05				
MC2R	4158 GuideToPharmac	antagonist	135652000 ASIP [90-132 (L89Y)]				

MC3R	4159	GuideToPharmacagonist	135651755	Γ-MSH				
MC4R	4160	GuideToPharmacagonist	387271628	BREMELANOTIDE	BREMELANOTIDE		chembl:CHEMBL2070241	2.83
MC5R	4161	TTD	MTC-896	MTC-896				
MCAM	4162	GuideToPharmacantibody	354702277	IMAPRELIMAB				
MCHR1	2847	GuideToPharmacagonist	135651969	AC-HMCH-(6-16)-NH2				
MCHR2	84539	GuideToPharmacagonist	135652447	MCH (SALMON)				
MCL1	4170	TTD	PMID277447	PMID27744724-Compound-13				
MCM8	84515	TTD	BT-063	BT-063				
MCOLN1	57192	PharmGKB	opioids	opioids				
MCOLN2	255231	GuideToPharmacactivator	178100233	PHOSPHATIDYL (3,5) INOSITOL BISPHOSPHATE				
MCOLN3	55283	GuideToPharmacactivator	178100233	PHOSPHATIDYL (3,5) INOSITOL BISPHOSPHATE				
MDGA2	161357	PharmGKB	paroxetine	paroxetine	PAROXETINE		chembl:CHEMBL490	1.7
MDH2	4191	NCI	ALBUMIN	ALBUMIN	ALBUMIN HUMAN		chembl:CHEMBL1201451	4.24
MDK	4192	NCI	RETINOIC	ARETINOIC ACID				
MDM2	4193	TTD	RG7388	RG7388	IDASANUTLIN		chembl:CHEMBL2402737	3.98
MDM4	4194	CIViC	NIVOLUMA	NIVOLUMAB	NIVOLUMAB		chembl:CHEMBL2108738	1.7
ME3	10873	NCI	DHT	DHT	ANDROSTANOLONE		wikidata:Q31686490	1.11
MED12L	116931	PharmGKB	cytarabine	cytarabine	CYTARABINE		chembl:CHEMBL803	2.96
MED19	219541	PharmGKB	ethanol	ethanol	ALCOHOL		chembl:CHEMBL545	1.48
MEG3	55384	PharmGKB	Platinum con	Platinum compounds				
MEGF11	84465	PharmGKB	fluorouracil	fluorouracil	FLUOROURACIL		chembl:CHEMBL185	1.21
MELK	9833	DTC	TAE-684	TAE-684	TAE-684		chembl:CHEMBL509032	0.04
MEN1	4221	DTC	CHLORHEX	CHLORHEXIDINE HYDRO	CHLORHEXIDINE HYDROCHLO		chembl:CHEMBL1484251	0.33
MERTK	10461	GuideToPharmacinhibitor	381118841	UNC4203				
MET	4233	TTD	CBT-101	CBT-101				
METAP1	23173	ChemblInteractioinhibitor	CHEMBL21	(TOSEDOSTAT	TOSEDOSTAT		chembl:CHEMBL2103847	3.35
METAP1D	254042	ChemblInteractioinhibitor	CHEMBL21	(TOSEDOSTAT	TOSEDOSTAT		chembl:CHEMBL2103847	3.35
METAP2	10988	TTD	PPI-2458	PPI-2458	PPI-2458		chembl:CHEMBL3527358	42.43
METTL21A	151194	PharmGKB	antidepressan	antidepressants				
MEX3C	51320	PharmGKB	Bisphosphon	Bisphosphonates				
MFGE8	4240	TdgClinicalTrial	TRIAB	TRIAB				
MGA	23269	ChemblInteractioinhibitor	CHEMBL15	(MIGLITOL	MIGLITOL		chembl:CHEMBL1561	10.61
MGAM	8972	DTC	BAICALEIN	BAICALEIN	BAICALEIN		chembl:CHEMBL8260	0.51
MGAT2	4247	TTD	Phenylmetha	Phenylmethanesulfonamide derivative 1				
MGAT4A	11320	PharmGKB	bevacizumab	bevacizumab	BEVACIZUMAB		chembl:CHEMBL1201583	1.03
MGLL	11343	GuideToPharmacinhibitor	252166807	JZL195				
MGMT	4255	NCI	CHLORAME	CHLORAMBUCIL	CHLORAMBUCIL		chembl:CHEMBL515	0.56
MIA	8190	NCI	TGFBETA1	TGFBETA1				
MICA	100507436	NCI	HSP70	HSP70				
MICB	4277	PharmGKB	peginterferon	peginterferon alfa-2a				
MICU1	10367	TTD	ALD-403	ALD-403	EPTINEZUMAB		chembl:CHEMBL3833320	15.91
MID1	4281	TTD	SUN-N8075	SUN-N8075				

MIEF2	125170 PharmGKB	duloxetine duloxetine	DULOXETINE	chembl:CHEMBL1175	6.37
MIF	4282 TdgClinicalTrial	ANTI-MIF MANTI-MIF MONOCLONAL ANTIBODY			
MINK1	50488 DTC	BAY-613606BAY-613606	CHEMBL541400	chembl:CHEMBL541400	0.06
MIP	4284 GuideToPharmacinhibitor	178101032 HG2+			
MIR125B2	406912 NCI	STEROID H(STEROID HORMONE			
MIR155	406947 TTD	MRG-201 MRG-201			
MIR2054	100302267 PharmGKB	capecitabine capecitabine	CAPECITABINE	chembl:CHEMBL1773	1.77
MIR21	406991 CIViC	CISPLATIN CISPLATIN	CISPLATIN	chembl:CHEMBL11359	0.88
MIR27A	407018 PharmGKB	capecitabine capecitabine	CAPECITABINE	chembl:CHEMBL1773	4.42
MIR582	693167 PharmGKB	quetiapine quetiapine	QUETIAPINE	chembl:CHEMBL716	2.05
MITF	4286 DTC	CID 1540545CID 1540545	CHEMBL259784	chembl:CHEMBL259784	0.2
MKNK1	8569 DTC	CGP-57380 CGP-57380	CHEMBL1240885	chembl:CHEMBL1240885	42.43
MKNK2	2872 DTC	SORAFENIBSORAFENIB	SORAFENIB	chembl:CHEMBL1336	0.05
MLANA	2315 NCI	CANCER V/CANCER VACCINES			
MLC1	23209 ChemblInteractioactivator	CHEMBL18(OMECAMTIV MECARBIL	OMECAMTIV MECARBIL	chembl:CHEMBL1800955	9.09
MLH1	4292 JAX-CKB	KU60648 KU60648			
MLKL	197259 GuideToPharmacinhibitor	336446900 MLKL COMPOUND 1			
MLLT3	4300 PharmGKB	cisplatin cisplatin	CISPLATIN	chembl:CHEMBL11359	0.44
MLNR	2862 TTD	RWJ-68023 RWJ-68023			
MLST8	64223 MyCancerGenoninhibitor	AZD8055 AZD8055	AZD-8055	chembl:CHEMBL1801204	1.41
MLYCD	23417 GuideToPharmacinhibitor	252827437 COMPOUND 10H [PMID: 20832306]			
MME	4311 GuideToPharmacinhibitor	178103105 CANDOXATRILAT	CANDOXATRILAT	chembl:CHEMBL434492	14.69
MMP1	4312 TTD	PMID291303PMID29130358-Compound-Figure18(14a)			
MMP10	4319 GuideToPharmacinhibitor	249565939 CM-352			
MMP11	4320 GuideToPharmacinhibitor	252166865 COMPOUND 10 [PMID: 18790648]			
MMP12	4321 TTD	PMID291303PMID29130358-Compound-Figure17(12)			
MMP13	4322 GuideToPharmacinhibitor	178103096 APRATASTAT	APRATASTAT	chembl:CHEMBL206815	6.06
MMP14	4323 GuideToPharmacinhibitor	252166779 COMPOUND 29E [PMID: 23631440]			
MMP15	4324 GuideToPharmacinhibitor	252166829 SL422			
MMP16	4325 GuideToPharmacinhibitor	252166829 SL422			
MMP17	4326 GuideToPharmacinhibitor	178103981 ILOMASTAT	ILOMASTAT	chembl:CHEMBL19611	4.9
MMP2	4313 GuideToPharmacinhibitor	178101832 ARP100			
MMP21	118856 TTD	GM6001 GM6001			
MMP25	64386 GuideToPharmacinhibitor	252827503 CGS-27023A	CGS-27023A	chembl:CHEMBL514138	7.96
MMP26	56547 GuideToPharmacinhibitor	178103981 ILOMASTAT	ILOMASTAT	chembl:CHEMBL19611	4.9
MMP3	4314 DTC	BERKELEY,BERKELEYACETAL A	BERKELEYACETAL A	chembl:CHEMBL252920	4.24
MMP7	4316 GuideToPharmacinhibitor	252166768 RS 39066			
MMP8	4317 TTD	GM6001 GM6001			
MMP9	4318 PharmGKB	celecoxib celecoxib	CELECOXIB	chembl:CHEMBL118	0.13
MMUT	4594 TTD	HydroxocobaHydroxocobalamin	HYDROXOCOBALAMIN	chembl:CHEMBL2103737	222.78
MOB3B	79817 PharmGKB	Tumor necrosTumor necrosis factor alpha (TNF-alpha) inhibitors			
MOBP	4336 PharmGKB	creatine creatine	CREATINE	chembl:CHEMBL283800	127.3

MOCS1	4337 TTD	ALXN1101 ALXN1101				
MPHOSPH8	54737 DTC	SB-224289 SB-224289	SB-224289		chembl:CHEMBL281350	0.08
MPI	4351 DTC	GNF-PF-513-GNF-PF-5134		CHEMBL602969	chembl:CHEMBL602969	0.48
MPL	4352 ChEMBLInteractio	agonist CHEMBL12(ROMIPILOSTIM	ROMIPILOSTIM		chembl:CHEMBL1201832	4.34
MPO	4353 TTD	AZD-3241 AZD-3241				
MPST	4357 GuideToPharmac	inhibitor 381744892 B3MT-3				
MR1	3140 TdgClinicalTrial	ANTITHYMANTITHYMOCYTE GLOBULIN				
MRGPRD	116512 GuideToPharmac	agonist 135651448 B-ALANINE				
MRGPRX1	259249 GuideToPharmac	agonist 178102177 CHLOROQUINE	CHLOROQUINE		chembl:CHEMBL76	5.3
MRGPRX2	117194 GuideToPharmac	agonist 135651697 CORTISTATIN-14	CORTISTATIN-14		chembl:CHEMBL2448526	3.54
MRM2	29960 TTD	Plazomicin Plazomicin	PLAZOMICIN		chembl:CHEMBL1650559	63.65
MS4A1	931 TTD	CAR-T cells CAR-T cells targeting CD20				
MS4A2	2206 TdgClinicalTrial	OMALIZUMOMALIZUMAB	OMALIZUMAB		chembl:CHEMBL1201589	106.09
MSANTD1	345222 PharmGKB	risperidone risperidone	RISPERIDONE		chembl:CHEMBL85	0.99
MSH2	4436 CIViC	ANTI-PD-1 MANTI-PD-1 MONOCLONAL ANTIBODY MEDI0680				
MSH5	4439 PharmGKB	gemcitabine gemcitabine	GEMCITABINE		chembl:CHEMBL888	0.79
MSH6	2956 JAX-CKB	temozolomicTemozolomide	TEMOZOLOMIDE		chembl:CHEMBL810	7.07
MSLN	10232 TTD	RG7882 RG7882				
MSMB	4477 TTD	Tigapotide Tigapotide	TIGAPOTIDE		chembl:CHEMBL3040192	63.65
MSR1	4481 NCI	H2O2 H2O2				
MST1	4485 NCI	RETINOIC ARETINOIC ACID				
MST1R	4486 DTC	ALSTERPAUALSTERPAULLONE	ALSTERPAULLONE		chembl:CHEMBL50894	0.05
MSTN	2660 ChEMBLInteractio	inhibitor CHEMBL35LANDOGROZUMAB	LANDOGROZUMAB		chembl:CHEMBL3545072	10.61
MT1A	4489 PharmGKB	arsenic trioxidarsenic trioxide				
MT1E	4493 NCI	NAC NAC	ACETYLCYSTEINE		chembl:CHEMBL600	8.49
MT1F	4494 NCI	DEXAMETHDEXAMETHASONE	DEXAMETHASONE		chembl:CHEMBL384467	0.76
MT1G	4495 NCI	BSO BSO				
MT1H	4496 NCI	GLUCOCORGLUCOCORTICOID				
MT1IP	644314 NCI	BUTYRATE BUTYRATE				
MT1JP	4498 NCI	ETHANOL ETHANOL	ALCOHOL		chembl:CHEMBL545	1.48
MT2A	4502 NCI	PARACETAIPARACETAMOL	ACETAMINOPHEN		chembl:CHEMBL112	1.63
MT3	4504 NCI	IL-6 IL-6				
MTAP	4507 NCI	L-ALANOSIL-ALANOSINE	ALANOSINE		chembl:CHEMBL452715	63.65
MT-CO1	4512 NCI	LEVODOPA LEVODOPA	LEVODOPA		chembl:CHEMBL1009	1.72
MT-CO2	4513 DTC	CELECOXIECELECOXIB	CELECOXIB		chembl:CHEMBL118	1.99
MTF1	4520 TdgClinicalTrial	LOR-253 LOR-253	APTO-253		chembl:CHEMBL4297261	31.83
MTHFR	4524 PharmGKB	pravastatin pravastatin	PRAVASTATIN		chembl:CHEMBL1144	0.15
MT-ND1	4535 TEND	SEVOFLURSEVOFLURANE	SEVOFLURANE		chembl:CHEMBL1200694	1.61
MT-ND2	4536 ChEMBLInteractio	inhibitor CHEMBL35NV-128	NV-128		chembl:CHEMBL3545135	0.42
MT-ND3	4537 TTD	NADH NADH	CHEMBL1161866		chembl:CHEMBL1161866	63.65
MT-ND4	4538 ChEMBLInteractio	inhibitor CHEMBL17(METFORMIN HYDROCHL	METFORMIN HYDROCHLORIDE		chembl:CHEMBL1703	0.39
MT-ND4L	4539 ChEMBLInteractio	inhibitor CHEMBL35NV-128	NV-128		chembl:CHEMBL3545135	0.42

MT-ND5	4540 ChemblInteractio	inhibitor	CHEMBL354	ME-344	chembl:CHEMBL3545320	0.42	
MT-ND6	4541 ChemblInteractio	inhibitor	CHEMBL354	NV-128	chembl:CHEMBL3545135	0.42	
MTNR1A	4543 GuideToPharmac	agonist	135649834	5-HEAT			
MTNR1B	4544 GuideToPharmac	antagonist	135650539	LUZINDOLE	chembl:CHEMBL286615	1.52	
MTOR	2475 DTC		QUINACRIN	QUINACRINE	chembl:CHEMBL7568	0.05	
MTR	4548 NCI		ENZYME IN	ENZYME INHIBITOR			
MTRF1L	54516 PharmGKB		antidepressan	antidepressants			
MT-RNR1	4549 PharmGKB		neomycin	neomycin	chembl:CHEMBL3989751	93.36	
MTRR	4552 PharmGKB		folic acid	folic acid			
MTTP	4547 TTD		BMS-201038	BMS-201038	LOMITAPIDE MESYLATE	chembl:CHEMBL2105662	7.96
MUC1	4582 TTD		Anti-MUC1 r	Anti-MUC1 mab			
MUC16	94025 ChemblInteractions		CHEMBL174	ABAGOVOMAB	chembl:CHEMBL1742981	23.87	
MUC2	4583 NCI		5-FU	5-FU	chembl:CHEMBL185	0.4	
MUC5AC	4586 ChemblInteractions		CHEMBL174	ENSITUXIMAB	chembl:CHEMBL1743013	31.83	
MUCL3	135656 PharmGKB		gemcitabine	gemcitabine	chembl:CHEMBL888	0.79	
MUSK	4593 GuideToPharmac	inhibitor	249565803	COMPOUND 1D [PMID: 21493067]			
MUTYH	4595 PharmGKB		cyclophosphac	cyclophosphamide	chembl:CHEMBL88	0.81	
MVD	4597 GuideToPharmac	inhibitor	135649848	6-FLUOROMEVALONATE	5-DIPHOSPHATE		
MVK	4598 GuideToPharmac	inhibitor	135651475	DIMETHYLALLYL	DIPHOSPHATE		
MXI1	4601 NCI		TGFBETA1	TGFBETA1			
MYB	4602 NCI		RETINOID	RETINOID			
MYBPC3	4607 TTD		Omecamtiv n	Omecamtiv mecarbil			
MYC	4609 ClarityFoundation	Biomarker	BAY1000394	BAY1000394			
MYCN	4613 PharmGKB		dinutuximab	dinutuximab	chembl:CHEMBL3137342	7.07	
MYD88	4615 JAX-CKB		Ibrutinib	Ibrutinib	chembl:CHEMBL1873475	1.66	
MYH14	79784 TTD		Mavacamten	Mavacamten	chembl:CHEMBL4297517	63.65	
MYH6	4624 ChemblInteractio	activator	CHEMBL18(	OMECAMTIV MECARBIL	chembl:CHEMBL1800955	9.09
MYH7	4625 ChemblInteractio	activator	CHEMBL18(	OMECAMTIV MECARBIL	chembl:CHEMBL1800955	9.09
MYH7B	57644 ChemblInteractio	activator	CHEMBL18(	OMECAMTIV MECARBIL	chembl:CHEMBL1800955	9.09
MYL2	4633 ChemblInteractio	activator	CHEMBL18(	OMECAMTIV MECARBIL	chembl:CHEMBL1800955	9.09
MYL3	4634 ChemblInteractio	activator	CHEMBL18(	OMECAMTIV MECARBIL	chembl:CHEMBL1800955	9.09
MYL7	58498 ChemblInteractio	activator	CHEMBL18(	OMECAMTIV MECARBIL	chembl:CHEMBL1800955	9.09
MYLIP	29116 PharmGKB		atorvastatin	atorvastatin	chembl:CHEMBL1487	2.12	
MYLK	4638 DTC	inhibitor	TOZASERTI	TOZASERTIB	chembl:CHEMBL572878	1.82	
MYLK2	85366 GuideToPharmac	inhibitor	178103351	GSK2606414	chembl:CHEMBL2171124	31.83	
MYO1H	283446 PharmGKB		lithium	lithium	chembl:CHEMBL2146126	2.77	
MYO9B	4650 NCI		SALT	SALT	chembl:CHEMBL3544989	0.96	
MYOD1	4654 NCI		L6	L6			
MYT1L	23040 PharmGKB		allopurinol	allopurinol	chembl:CHEMBL1467	4.39	
N6AMT1	29104 PharmGKB		clopidogrel	clopidogrel	chembl:CHEMBL1771	3.18	
NAAA	27163 GuideToPharmac	inhibitor	381118830	ARN19702			
NAE1	8883 ChemblInteractio	inhibitor	CHEMBL123	PEVONEDISTAT	chembl:CHEMBL1231160	15.91	

NAGLU	4669 TTD	N-Acetyl-D-glucosamine				
NAGS	162417 PharmGKB	carglumic acid				
NALCN	259232 GuideToPharmac	135651305 VERAPAMIL	VERAPAMIL	VERAPAMIL	chembl:CHEMBL6966	0.8
NAMPT	10135 TdgClinicalTrial	GMX1777 GMX1777		TEGLARINAD CHLORIDE	chembl:CHEMBL190412	63.65
NAPEPLD	222236 GuideToPharmac	405560510 HEXACHLOROPHENE	HEXACHLOROPHENE	HEXACHLOROPHENE	chembl:CHEMBL496	0.52
NAPRT	93100 CIViC	GNE-617 GNE-617				
NAT1	9 ChemblInteractio	inhibitor CHEMBL12(ORPHENADRINE (CHLORIORPHENADRINE HYDROCHLO			chembl:CHEMBL1201023	0.05
NAT2	10 NCI	ETHANOL ETHANOL	ALCOHOL	ALCOHOL	chembl:CHEMBL545	0.08
NBEA	26960 PharmGKB	antidepressan	antidepressants			
NBN	4683 CIViC	GPI-15427 GPI-15427				
NCAM1	4684 TTD	CART-56 cel	CART-56 cells			
NCF1	653361 NCI	HYDROGEN	HYDROGEN PEROXIDE			
NCF2	4688 NCI	PMA PMA				
NCF4	4689 PharmGKB	doxorubicin doxorubicin	DOXORUBICIN	DOXORUBICIN	chembl:CHEMBL53463	2.37
NCK1	4690 TTD	AX-024 AX-024				
NCL	4691 TdgClinicalTrial	AS1411 AS1411				
NCOA1	8648 DTC	TCMDC-123 TCMDC-123764	CHEMBL533226		chembl:CHEMBL533226	1.22
NCOA2	10499 DTC	METHYLTHMETHYLTHIONINIUM CH	METHYLTHIONINIUM CHLORID		chembl:CHEMBL405110	2.65
NCOA3	8202 NCI	TAMOXIFEN	TAMOXIFEN	TAMOXIFEN	chembl:CHEMBL83	0.24
NCOR2	9612 DTC	9,10-PHENA	9,10-PHENANTHRENEQUINONE		chembl:CHEMBL51931	0.82
NCSTN	23385 TALC inhibitor	MK0752 MK0752				
NDUFA1	4694 ChemblInteractio	inhibitor CHEMBL17(METFORMIN HYDROCHL	METFORMIN HYDROCHLORIDE		chembl:CHEMBL1703	0.39
NDUFA10	4705 ChemblInteractio	inhibitor CHEMBL35<NV-128	NV-128	NV-128	chembl:CHEMBL3545135	0.42
NDUFA11	126328 ChemblInteractio	inhibitor CHEMBL17(METFORMIN HYDROCHL	METFORMIN HYDROCHLORIDE		chembl:CHEMBL1703	0.39
NDUFA12	55967 ChemblInteractio	inhibitor CHEMBL35<NV-128	NV-128	NV-128	chembl:CHEMBL3545135	0.42
NDUFA13	51079 ChemblInteractio	inhibitor CHEMBL35<NV-128	NV-128	NV-128	chembl:CHEMBL3545135	0.42
NDUFA2	4695 ChemblInteractio	inhibitor CHEMBL35<NV-128	NV-128	NV-128	chembl:CHEMBL3545135	0.42
NDUFA3	4696 ChemblInteractio	inhibitor CHEMBL17(METFORMIN HYDROCHL	METFORMIN HYDROCHLORIDE		chembl:CHEMBL1703	0.39
NDUFA4	4697 ChemblInteractio	inhibitor CHEMBL35<ME-344	ME-344	ME-344	chembl:CHEMBL3545320	0.42
NDUFA4L2	56901 ChemblInteractio	inhibitor CHEMBL35<NV-128	NV-128	NV-128	chembl:CHEMBL3545135	0.42
NDUFA5	4698 ChemblInteractio	inhibitor CHEMBL35<ME-344	ME-344	ME-344	chembl:CHEMBL3545320	0.42
NDUFA6	4700 ChemblInteractio	inhibitor CHEMBL35<ME-344	ME-344	ME-344	chembl:CHEMBL3545320	0.42
NDUFA7	4701 ChemblInteractio	inhibitor CHEMBL35<ME-344	ME-344	ME-344	chembl:CHEMBL3545320	0.42
NDUFA8	4702 ChemblInteractio	inhibitor CHEMBL35<NV-128	NV-128	NV-128	chembl:CHEMBL3545135	0.42
NDUFA9	4704 ChemblInteractio	inhibitor CHEMBL35<NV-128	NV-128	NV-128	chembl:CHEMBL3545135	0.42
NDUFAB1	4706 ChemblInteractio	inhibitor CHEMBL35<ME-344	ME-344	ME-344	chembl:CHEMBL3545320	0.42
NDUFAF1	51103 ChemblInteractio	inhibitor CHEMBL35<NV-128	NV-128	NV-128	chembl:CHEMBL3545135	0.42
NDUFAF2	91942 ChemblInteractio	inhibitor CHEMBL17(METFORMIN HYDROCHL	METFORMIN HYDROCHLORIDE		chembl:CHEMBL1703	0.39
NDUFAF3	25915 ChemblInteractio	inhibitor CHEMBL35<ME-344	ME-344	ME-344	chembl:CHEMBL3545320	0.42
NDUFAF4	29078 ChemblInteractio	inhibitor CHEMBL17(METFORMIN HYDROCHL	METFORMIN HYDROCHLORIDE		chembl:CHEMBL1703	0.39
NDUFB1	4707 ChemblInteractio	inhibitor CHEMBL35<ME-344	ME-344	ME-344	chembl:CHEMBL3545320	0.42
NDUFB10	4716 ChemblInteractio	inhibitor CHEMBL35<ME-344	ME-344	ME-344	chembl:CHEMBL3545320	0.42

NDUFB11	54539	ChemblInteractioinhibitor	CHEMBL354ME-344	ME-344	chembl:CHEMBL3545320	0.42
NDUFB2	4708	ChemblInteractioinhibitor	CHEMBL354NV-128	NV-128	chembl:CHEMBL3545135	0.42
NDUFB3	4709	ChemblInteractioinhibitor	CHEMBL354ME-344	ME-344	chembl:CHEMBL3545320	0.42
NDUFB4	4710	ChemblInteractioinhibitor	CHEMBL354ME-344	ME-344	chembl:CHEMBL3545320	0.42
NDUFB5	4711	ChemblInteractioinhibitor	CHEMBL354ME-344	ME-344	chembl:CHEMBL3545320	0.42
NDUFB6	4712	ChemblInteractioinhibitor	CHEMBL354NV-128	NV-128	chembl:CHEMBL3545135	0.42
NDUFB7	4713	ChemblInteractioinhibitor	CHEMBL17(METFORMIN HYDROCHL	METFORMIN HYDROCHLORIDE	chembl:CHEMBL1703	0.39
NDUFB8	4714	ChemblInteractioinhibitor	CHEMBL354ME-344	ME-344	chembl:CHEMBL3545320	0.42
NDUFB9	4715	ChemblInteractioinhibitor	CHEMBL354NV-128	NV-128	chembl:CHEMBL3545135	0.42
NDUFC1	4717	ChemblInteractioinhibitor	CHEMBL354ME-344	ME-344	chembl:CHEMBL3545320	0.42
NDUFC2	4718	ChemblInteractioinhibitor	CHEMBL354NV-128	NV-128	chembl:CHEMBL3545135	0.42
NDUFS1	4719	ChemblInteractioinhibitor	CHEMBL17(METFORMIN HYDROCHL	METFORMIN HYDROCHLORIDE	chembl:CHEMBL1703	0.39
NDUFS2	4720	ChemblInteractioinhibitor	CHEMBL354NV-128	NV-128	chembl:CHEMBL3545135	0.42
NDUFS3	4722	ChemblInteractioinhibitor	CHEMBL354NV-128	NV-128	chembl:CHEMBL3545135	0.42
NDUFS4	4724	ChemblInteractioinhibitor	CHEMBL354ME-344	ME-344	chembl:CHEMBL3545320	0.42
NDUFS5	4725	ChemblInteractioinhibitor	CHEMBL354NV-128	NV-128	chembl:CHEMBL3545135	0.42
NDUFS6	4726	ChemblInteractioinhibitor	CHEMBL354ME-344	ME-344	chembl:CHEMBL3545320	0.42
NDUFS7	374291	ChemblInteractioinhibitor	CHEMBL354ME-344	ME-344	chembl:CHEMBL3545320	0.42
NDUFS8	4728	ChemblInteractioinhibitor	CHEMBL17(METFORMIN HYDROCHL	METFORMIN HYDROCHLORIDE	chembl:CHEMBL1703	0.39
NDUFV1	4723	ChemblInteractioinhibitor	CHEMBL354NV-128	NV-128	chembl:CHEMBL3545135	0.42
NDUFV2	4729	ChemblInteractioinhibitor	CHEMBL354ME-344	ME-344	chembl:CHEMBL3545320	0.42
NDUFV3	4731	ChemblInteractioinhibitor	CHEMBL17(METFORMIN HYDROCHL	METFORMIN HYDROCHLORIDE	chembl:CHEMBL1703	0.39
NECTIN4	81607	GuideToPharmacantibody	405067331	ENFORTUMAB VEDOTIN		
NEDD4	4734	PharmGKB	warfarin	warfarin	WARFARIN	chembl:CHEMBL1464
NEDD4L	23327	PharmGKB	diuretics	diuretics		
NEDD8	4738	TTD	MLN4924	MLN4924		
NEK1	4750	GuideToPharmacinhibitor	249565860	COMPOUND 31 [PMID: 20936789]		
NEK11	79858	GuideToPharmacinhibitor	249565802	COMPOUND 25 [PMID: 17935989]		
NEK2	4751	DTC	AZD-1775	AZD-1775	ADAVOSERTIB	chembl:CHEMBL1976040
NEK3	4752	GuideToPharmacinhibitor	249565802	COMPOUND 25 [PMID: 17935989]		
NEK4	6787	DTC	TAMATINI	TAMATINIB	R-406	chembl:CHEMBL475251
NEK6	10783	GuideToPharmacinhibitor	249565885	COMPOUND 22 [PMID: 20462760]		
NEK7	140609	GuideToPharmacinhibitor	249565885	COMPOUND 22 [PMID: 20462760]		
NELFCD	51497	PharmGKB	diuretics	diuretics		
NEU3	10825	DTC	OSELTAMIVIR	OSELTAMIVIR		chembl:CHEMBL1229
NEUROD1	4760	NCI	PD-98059	PD-98059		chembl:CHEMBL35482
NF1	4763	ClarityFoundationBiomar	MEK162	MEK162	BINIMETINIB	chembl:CHEMBL3187723
NF2	4771	CIViC	SELUMETIN	SELUMETINIB		chembl:CHEMBL1614701
NFATC2	4773	PharmGKB	asparaginase	asparaginase	ASPARAGINASE	chembl:CHEMBL2108989
NFE2	4778	NCI	PACLITAXE	PACLITAXEL		chembl:CHEMBL428647
NFE2L2	4780	DTC	ALDICARB	ALDICARB		chembl:CHEMBL91732
NFIB	4781	PharmGKB	methylphenid	methylphenidate	METHYLPHENIDATE	chembl:CHEMBL796

NFKB1	4790 DTC	SJ000113257	SJ000113257	CHEMBL528694	chembl:CHEMBL528694	0.05
NFKB2	4791 TTD	Quinoxaline	Quinoxaline derivative 3			
NFKBIA	4792 DTC	6-METHOXY	6-METHOXYCOMAPARVICHEMBL401565		chembl:CHEMBL401565	7.07
NFKBIB	4793 PharmGKB	gefitinib	gefitinib	GEFITINIB	chembl:CHEMBL939	1.87
NFKBIL1	4795 NCI	IFN	IFN			
NGB	58157 NCI	SODIUM SASODIUM	SALICYLATE			
NGF	4803 TTD	CXB-909	CXB-909			
NGFR	4804 TTD	Fulranumab	Fulranumab	FULRANUMAB	chembl:CHEMBL1743023	10.61
NIM1K	167359 GuideToPharmac	249565794	COMPOUND 89S [PMID: 19115845]			
NKX6-1	4825 PharmGKB	haloperidol	haloperidol	HALOPERIDOL	chembl:CHEMBL54	0.9
NLK	51701 GuideToPharmac	249565802	COMPOUND 25 [PMID: 17935989]			
NLRP1	22861 GuideToPharmac	178101721	MURAMYL DIPEPTIDE			
NLRP3	114548 GuideToPharmac	375973244	DAPANSUTRILE	DAPANSUTRILE	chembl:CHEMBL3989943	14.14
NMBR	4829 GuideToPharmac	135652568	[125I][TYR4]BOMBESIN			
NME1	4830 PharmGKB	tenofovir	tenofovir	TENOFOVIR	chembl:CHEMBL483	1.33
NME2	4831 PharmGKB	zidovudine	zidovudine	ZIDOVUDINE	chembl:CHEMBL129	1.03
NMUR1	10316 GuideToPharmac	135652536	[125I]NEUROMEDIN U-23 (RAT)			
NMUR2	56923 GuideToPharmac	135652329	NEUROMEDIN U-25			
NNMT	4837 TdgClinicalTrial	NIACIN	NIACIN	NIACIN	chembl:CHEMBL573	28.29
NOD1	10392 GuideToPharmac	178101718	MESO-DAP			
NOD2	64127 DTC	NSC-50688	NSC-50688	CHEMBL1456848	chembl:CHEMBL1456848	1.33
NODAL	4838 NCI	FGF4	FGF4			
NOS1	4842 PharmGKB	ibuprofen	ibuprofen	IBUPROFEN	chembl:CHEMBL521	0.1
NOS1AP	9722 PharmGKB	verapamil	verapamil	VERAPAMIL	chembl:CHEMBL6966	0.64
NOS2	4843 TTD	GW274150	GW274150	GW-274150	chembl:CHEMBL114551	1.93
NOS3	4846 PharmGKB	fluorouracil	fluorouracil	FLUOROURACIL	chembl:CHEMBL185	0.11
NOTCH1	4851 JAX-CKB	LY3039478	LY3039478	CRENIGACESTAT	chembl:CHEMBL2338397	3.74
NOTCH2	4853 MyCancerGenom	MK0752	MK0752			
NOTCH3	4854 CIViC	TAREXTUM	TAREXTUMAB	TAREXTUMAB	chembl:CHEMBL3301588	63.65
NOTCH4	4855 MyCancerGenom	RO4929097	RO4929097	RG-4733	chembl:CHEMBL4297422	2.65
NOX1	27035 GuideToPharmac	363894229	GKT136901			
NOX4	50507 GuideToPharmac	363894228	COMPOUND 87 [PMID: 20942471]			
NOX5	79400 GuideToPharmac	363894227	NSC 780521			
NPBWR1	2831 GuideToPharmac	178100695	AVA5			
NPBWR2	2832 GuideToPharmac	135651827	NEUROPEPTIDE B-23			
NPC1	4864 DTC	SU-4312	SU-4312	CHEMBL328710	chembl:CHEMBL328710	0.04
NPC1L1	29881 TdgClinicalTrial	EZETIMIBE	EZETIMIBE	EZETIMIBE	chembl:CHEMBL1138	175.04
NPEPL1	79716 ChemblInteractio	CHEMBL21	(TOSEDOSTAT	TOSEDOSTAT	chembl:CHEMBL2103847	3.35
NPEPPS	9520 TTD	CHR-2797	CHR-2797	TOSEDOSTAT	chembl:CHEMBL2103847	3.35
NPFFR1	64106 GuideToPharmac	178100845	[3H]NPVF			
NPFFR2	10886 GuideToPharmac	135651833	NEUROPEPTIDE FF			
NPHS1	4868 PharmGKB	losartan	losartan	LOSARTAN	chembl:CHEMBL191	7.07

NPIP8	728734 PharmGKB	acetaminophacetaminophen	ACETAMINOPHEN	chembl:CHEMBL112	0.82
NPM1	4869 JAX-CKB	Crizotinib Crizotinib	CRIZOTINIB	chembl:CHEMBL601719	1.52
NPPA	4878 NCI	AZA AZA			
NPPA-AS1	100379251 PharmGKB	furosemide furosemide	FUROSEMIDE	chembl:CHEMBL35	3.26
NPPC	4880 NCI	PMA PMA			
NPR1	4881 GuideToPharmac antagonist	178101553 [ASU7,23']B-ANP-(7-28)			
NPR2	4882 GuideToPharmac antagonist	178101554 [SER11](N-CNP,C-ANP)PBNP2-15			
NPR3	4883 GuideToPharmac agonist	178101592 CANF4-23			
NPSR1	387129 DTC	GNF-PF-399(GNF-PF-3996	CHEMBL584458	chembl:CHEMBL584458	0.05
NPTN	27020 NCI	ANTISERUMANTISERUM			
NPTX2	4885 TTD	PRM-151 PRM-151	PRM-151	chembl:CHEMBL4297814	63.65
NPTXR	23467 TTD	NNZ-2566 NNZ-2566			
NPY	4852 NCI	VACCINE VACCINE			
NPY1R	4886 DTC	DNDI141777DNDI1417776	CHEMBL1585652	chembl:CHEMBL1585652	2.65
NPY2R	4887 GuideToPharmac agonist	135652346 NPY-(16-36) (PIG)			
NPY4R	5540 GuideToPharmac agonist	135652551 [125I]PYY (PIG)			
NPY5R	4889 GuideToPharmac agonist	135652406 [PP1-17,ALA31,AIB32]NPY (HUMAN)			
NQO1	1728 TEND	MENADIONMENADIONE	MENADIONE	chembl:CHEMBL590	0.65
NQO2	4835 DTC	NSC-640556 NSC-640556	CHEMBL1983317	chembl:CHEMBL1983317	4.24
NR0B1	190 DTC	VINCRISTINVINCRISTINE SULFATE	VINCRISTINE SULFATE	chembl:CHEMBL501867	0.37
NR0B2	8431 GuideToPharmacology	252827495 COMPOUND 10 [PMID: 18759424]			
NR1D1	9572 DTC	SR9011 SR9011	SR9011	chembl:CHEMBL1961797	21.22
NR1D2	9975 GuideToPharmac antagonist	310264683 COBALT PROTOPORPHYRIN IX			
NR1H2	7376 GuideToPharmac agonist	135651470 DESMOSTEROL	DESMOSTEROL	chembl:CHEMBL455876	6.82
NR1H3	10062 TTD	US9006244, US9006244, E2a			
NR1H4	9971 DTC	PENTACHLOROPENTACHLOROPHENOL	PENTACHLOROPHENOL	chembl:CHEMBL75967	0.07
NR1I2	8856 PharmGKB	diethylstilbes diethylstilbestrol	DIETHYLSTILBESTROL	chembl:CHEMBL411	0.08
NR1I3	9970 DTC	ETHINYL EETHINYL ESTRADIOL	ETHINYL ESTRADIOL	chembl:CHEMBL691	0.76
NR2C1	7181 NCI	RETINOIC ARETINOIC ACID			
NR2C2	7182 GuideToPharmac agonist	135651435 TRETINOIN	TRETINOIN	chembl:CHEMBL38	0.96
NR2E1	7101 GuideToPharmac agonist	135651435 TRETINOIN	TRETINOIN	chembl:CHEMBL38	1.93
NR2E3	10002 DTC	GNF-PF-303' GNF-PF-3037	CHEMBL600336	chembl:CHEMBL600336	0.39
NR2F2	7026 DTC	CYCLOHEXCYCLOHEXIMIDE	CYCLOHEXIMIDE	chembl:CHEMBL123292	0.76
NR3C1	2908 TTD	Mifepristone Mifepristone	MIFEPRISTONE	chembl:CHEMBL1276308	0.24
NR3C2	4306 ChemblInteractio agonist	CHEMBL12(DESOXYCORTICOSTERONDESOXYCORTICOSTERONE PIV	chembl:CHEMBL1200592	8.3	
NR4A1	3164 NCI	L-DOPA L-DOPA	LEVODOPA	chembl:CHEMBL1009	0.52
NR4A3	8013 NCI	ANTISENSEANTISENSE OLIGONUCLEOTIDES			
NR5A1	2516 NCI	DEXAMETHDEXAMETHASONE	DEXAMETHASONE	chembl:CHEMBL384467	0.17
NR5A2	2494 DTC	TDR79154 TDR79154	CHEMBL597670	chembl:CHEMBL597670	15.91
NR6A1	2649 NCI	ANTISERUMANTISERUM			
NRAS	4893 TTD	GI-4000 GI-4000			
NRG1	3084 NCI	NERVE GRCNERVE GROWTH FACTOR			

NRG2	9542 PharmGKB	panitumumabpanitumumab	PANITUMUMAB	chembl:CHEMBL1201827	1.52
NRG3	10718 PharmGKB	cetuximab cetuximab	CETUXIMAB	chembl:CHEMBL1201577	0.49
NRIP1	8204 NCI	RETINOIC ARETINOIC ACID			
NRP1	8829 TEND	PEGAPTANIPEGAPTANIB	PEGAPTANIB SODIUM	chembl:CHEMBL1201421	31.83
NRP2	8828 PharmGKB	daunorubicin daunorubicin	DAUNORUBICIN	chembl:CHEMBL178	1.99
NRXN1	9378 PharmGKB	antipsychotic:antipsychotics			
NSD2	7468 DTC	NSC-36398 NSC-36398	CHEMBL483206	chembl:CHEMBL483206	0.66
NT5C	30833 PharmGKB	lamivudine lamivudine	LAMIVUDINE	chembl:CHEMBL141	1.22
NT5C1A	84618 PharmGKB	fluorouracil fluorouracil	FLUOROURACIL	chembl:CHEMBL185	0.4
NT5C2	22978 PharmGKB	didanosine didanosine	DIDANOSINE	chembl:CHEMBL1460	2.12
NT5C3A	51251 PharmGKB	cytarabine cytarabine	CYTARABINE	chembl:CHEMBL803	0.99
NT5E	4907 GuideToPharmac	inhibitor 404859154 AB680			
NTF3	4908 NCI	PILOCARPINPILOCARPINE	PILOCARPINE	chembl:CHEMBL550	0.57
NTF4	4909 NCI	BDNF BDNF			
NTNG1	22854 PharmGKB	allopurinol allopurinol	ALLOPURINOL	chembl:CHEMBL1467	4.39
NTRK1	4914 TTD	Pyrazolo[1,5-Pyrazolo[1,5-a]pyrimidine derivative 17			
NTRK2	4915 TTD	Macrocycle dMacrocycle derivative 13			
NTRK3	4916 GuideToPharmac	inhibitor 381744997 REPOTRECTINIB	REPOTRECTINIB	chembl:CHEMBL4298138	0.94
NTS	4922 NCI	NORETHISTNORETHISTERONE	NORETHINDRONE	chembl:CHEMBL1162	1.77
NTSR1	4923 ChemblInteractio	antagonistCHEMBL50(REMINE	REMINERTANT	chembl:CHEMBL506981	13.64
NTSR2	23620 GuideToPharmac	agonist 135652225 JMV457			
NUAK1	9891 GuideToPharmac	inhibitor 310264738 CERDULATINIB	CERDULATINIB	chembl:CHEMBL3545284	7.07
NUAK2	81788 GuideToPharmac	inhibitor 249565727 WZ4003			
NUBPL	80224 PharmGKB	iloperidone iloperidone	ILOPERIDONE	chembl:CHEMBL14376	8.49
NUCB1	4924 GuideToPharmac	antagonist 252166902 KML110			
NUCB2	4925 PharmGKB	hydrochlorothhydrochlorothiazide	HYDROCHLOROTHIAZIDE	chembl:CHEMBL435	3.54
NUDT1	4521 PharmGKB	8-oxo-dgtp 8-oxo-dgtp			
NUDT15	55270 FDA	MercaptopuriMercaptopurine	MERCAPTOPURINE	chembl:CHEMBL1425	14.73
NUDT7	283927 GuideToPharmac	inhibitor 384403663 NUDT7-COV-1			
NUMA1	4926 PharmGKB	calcium chanicalcium channel blockers			
NUP107	57122 PharmGKB	Platinum corPlatinum compounds			
NUP50	10762 PharmGKB	teniposide teniposide	TENIPOSIDE	chembl:CHEMBL452231	15.91
OASL	8638 PharmGKB	peginterferon peginterferon alfa-2b			
OAT	4942 DTC	GABACULINGABACULINE	GABACULINE	chembl:CHEMBL1232972	254.61
OCLN	100506658 NCI	RETINOIC ARETINOIC ACID			
OCRL	4952 PharmGKB	tenofovir tenofovir	TENOFOVIR	chembl:CHEMBL483	10.61
ODC1	4953 ChemblInteractio	inhibitor CHEMBL12(EFLORNITHINE HYDROCH	EFLORNITHINE HYDROCHLORI	chembl:CHEMBL1201037	21.22
OGA	10724 TTD	MK 8719 MK 8719			
OGDH	4967 TTD	CPI-613 CPI-613			
OGFR	11054 TTD	INNO-105 INNO-105			
OGG1	4968 NCI	CAFFEINE CAFFEINE	CAFFEINE	chembl:CHEMBL113	4.24
OLR1	4973 TdgClinicalTrial	BI-204 BI-204			

OPCML	4978 PharmGKB	methylphenidmethylphenidate		METHYLPHENIDATE	chembl:CHEMBL796	2.83
OPLAH	26873 NCI	MELPHALA MELPHALAN		MELPHALAN	chembl:CHEMBL852	6.7
OPN1LW	5956 DTC	CYCLOCITRCYCLOCITRAL		CYCLOCITRAL	chembl:CHEMBL1952257	25.46
OPRD1	4985 DTC	SB-0304 SB-0304		CHEMBL409225	chembl:CHEMBL409225	0.98
OPRK1	4986 GuideToPharmacagonist	135650321 GR 89696				
OPRL1	4987 GuideToPharmac antagonist	387065582 NIK-21273				
OPRM1	4988 TEND	LEVOMETHLEVOMETHADYL ACETATE				
OR52E2	119678 PharmGKB	lithium lithium		LITHIUM	chembl:CHEMBL2146126	2.77
OR52J2P	79529 PharmGKB	lithium lithium		LITHIUM	chembl:CHEMBL2146126	2.77
OR52J3	119679 PharmGKB	lithium lithium		LITHIUM	chembl:CHEMBL2146126	2.77
ORAI1	84876 TdgClinicalTrial	CM2489 CM2489				
ORAI2	80228 GuideToPharmac blocker	381118798 GSK-7975A				
ORM2	5005 PharmGKB	docetaxel docetaxel		DOCETAXEL	chembl:CHEMBL92	1.61
OSM	5008 TTD	GSK2330811GSK2330811				
OTC	5009 PharmGKB	sodium benzcsodium benzoate / sodium phenylacetate				
OTOS	150677 PharmGKB	cisplatin cisplatin		CISPLATIN	chembl:CHEMBL11359	1.32
OXER1	165140 DTC	5-OXO-ETE 5-OXO-ETE		5-OXO-ETE	chembl:CHEMBL18028	47.74
OXGR1	27199 GuideToPharmac agonist	178100543 A-KETOGLUTARIC ACID				
OXSR1	9943 GuideToPharmac inhibitor	249565899 COMPOUND 74 [PMID: 24793884]				
OXT	5020 TEND	OXYTOCIN OXYTOCIN		OXYTOCIN	chembl:CHEMBL395429	28.29
OXTR	5021 GuideToPharmac antagonist	135650471 L-368,228				
P2RX1	5023 GuideToPharmac agonist	178101053 L-BF-MEATP				
P2RX2	22953 GuideToPharmac antagonist	336446931 NF770				
P2RX3	5024 TTD	AF-219 AF-219		GEFAPIXANT	chembl:CHEMBL3716057	38.19
P2RX4	5025 TTD	P2X4 inhibitoP2X4 inhibitora				
P2RX7	5027 TTD	Pyridazinone Pyridazinone derivative 1				
P2RY1	5028 GuideToPharmac antagonist	135649697 2-CHLOROADENOSINE-5-TRIPHOSPHATE				
P2RY10	27334 GuideToPharmac antagonist	135650448 JTE-013				
P2RY11	5032 DTC	ISO-IANTHEISO-IANTHERAN A		ISO-IANTHERAN A	chembl:CHEMBL240681	7.07
P2RY12	64805 GuideToPharmac antagonist	135650403 REGRELOR		REGRELOR	chembl:CHEMBL1162175	7.07
P2RY13	53829 GuideToPharmac antagonist	135650843 PPADS				
P2RY14	9934 GuideToPharmac agonist	135651587 UDP-GLUCURONIC ACID				
P2RY2	5029 NCI	ATRA ATRA		TRETINOIN	chembl:CHEMBL38	0.43
P2RY4	5030 GuideToPharmac agonist	135651590 DENUFOSOL		DENUFOSOL	chembl:CHEMBL507282	7.96
P2RY6	5031 GuideToPharmac agonist	135651589 UP3U				
P2RY8	286530 TdgClinicalTrial	MC-1 MC-1				
P3H3	10536 PharmGKB	sertraline sertraline		SERTRALINE	chembl:CHEMBL809	6.06
P4HA1	5033 DTC	PYRIDINE-2PYRIDINE-2,5-DICARBOX'PYRIDINE-2,5-DICARBOXYLIC A			chembl:CHEMBL88972	42.43
P4HB	5034 DTC	RALOXIFENRALOXIFENE HYDROCHLRALOXIFENE HYDROCHLORIDI			chembl:CHEMBL1116	0.32
P4HTM	54681 ChemblInteractio inhibitor	CHEMBL354DAPRODUSTAT		DAPRODUSTAT	chembl:CHEMBL3544988	7.96
PABPC1	26986 DTC	GNF-PF-461GNF-PF-4618		CHEMBL585964	chembl:CHEMBL585964	7.96
PACSIN2	11252 PharmGKB	methotrexate methotrexate		METHOTREXATE	chembl:CHEMBL34259	0.59

PADI1	29943 DTC	O-CL-AMID|O-CL-AMIDINE	CHEMBL1910971	chembl:CHEMBL1910971	15.91
PADI2	11240 DTC	O-F-AMIDINO-F-AMIDINE	CHEMBL1910970	chembl:CHEMBL1910970	10.61
PADI3	51702 DTC	O-F-AMIDINO-F-AMIDINE	CHEMBL1910970	chembl:CHEMBL1910970	15.91
PADI4	23569 DTC	O-F-AMIDINO-F-AMIDINE	CHEMBL1910970	chembl:CHEMBL1910970	15.91
PAEP	5047 NCI	GENISTEIN GENISTEIN	GENISTEIN	chembl:CHEMBL44	2.36
PAH	5053 TEND	TETRAHYD TETRAHYDROBIOPTERINS	SAPROPTERIN	wikidata:Q419808	5.3
PAK1	5058 DTC	AZD-1152-HAZD-1152-HQPA	AZD-1152-HQPA	chembl:CHEMBL215152	0.26
PAK2	5062 GuideToPharmac inhibitor	310264720 FRAX597			
PAK3	5063 GuideToPharmac inhibitor	310264720 FRAX597			
PAK4	10298 DTC	681640	681640 CHEMBL379975	chembl:CHEMBL379975	0.08
PAK5	57144 DTC inhibitor	HESPERADIHESPERADIN	HESPERADIN	chembl:CHEMBL514409	0.53
PAK6	56924 GuideToPharmac inhibitor	310264718 PF-3758309	PF-03758309	chembl:CHEMBL3128043	5.3
PALB2	79728 CIViC	OLAPARIB OLAPARIB	OLAPARIB	chembl:CHEMBL521686	2.36
PANX1	24145 GuideToPharmac inhibitor	178100972 CARBENOXOLONE	CARBENOXOLONE	chembl:CHEMBL499915	2.65
PANX2	56666 GuideToPharmac inhibitor	178100972 CARBENOXOLONE	CARBENOXOLONE	chembl:CHEMBL499915	2.65
PANX3	116337 GuideToPharmac inhibitor	178100972 CARBENOXOLONE	CARBENOXOLONE	chembl:CHEMBL499915	2.65
PAPLN	89932 PharmGKB	citalopram citalopram	CITALOPRAM	chembl:CHEMBL549	1.87
PAPOLA	10914 NCI	ETOPOSIDE ETOPOSIDE	ETOPOSIDE	chembl:CHEMBL44657	2.45
PAPPA	5069 NCI	TRANSFOR|TRANSFORMING GROWTH FACTOR			
PARD3B	117583 PharmGKB	oxaliplatin oxaliplatin	OXALIPLATIN	chembl:CHEMBL414804	1.72
PARG	8505 DTC	BENZAMID|BENZAMIDE	BENZAMIDE	chembl:CHEMBL267373	127.3
PARP1	142 TTD	Quinazolined Quinazolinedione derivative 2			
PARP11	57097 PharmGKB	antidepressan antidepressants			
PARP2	10038 ChemblInteractio inhibitor	CHEMBL52|OLAPARIB	OLAPARIB	chembl:CHEMBL521686	1.68
PARP3	10039 ChemblInteractio inhibitor	CHEMBL50|VELIPARIB	VELIPARIB	chembl:CHEMBL506871	1.27
PASK	23178 DTC	ALSTERPAU|ALSTERPAULLONE	ALSTERPAULLONE	chembl:CHEMBL50894	0.64
PAX2	5076 NCI	AG 490 AG 490			
PAX4	5078 PharmGKB	repaglinide repaglinide	REPAGLINIDE	chembl:CHEMBL1272	2.12
PAX5	5079 NCI	TCDD TCDD			
PAX8	7849 DTC	DOXORUBI|DOXORUBICIN HYDROCF|DOXORUBICIN HYDROCHLORII		chembl:CHEMBL359744	0.03
PBK	55872 DTC	LINIFANIB LINIFANIB	LINIFANIB	chembl:CHEMBL223360	0.18
PBRM1	55193 GuideToPharmac inhibitor	249565598 PFI-3			
PC	5091 NCI	AMPHOTERAMPHOTERICIN B			
PCBD1	5092 NCI	H2O2 H2O2			
PCLAF	9768 TTD	Indol-3-carbin|Indol-3-carbinol			
PCNA	5111 TTD	ATX-101 ATX-101	DEOXYCHOLIC ACID	chembl:CHEMBL406393	21.22
PCSK1	5122 GuideToPharmac inhibitor	178103178 PHENYLACETYL-ARG-VAL-ARG-4-AMIDINOBENZYLAMIDE			
PCSK2	5126 GuideToPharmac inhibitor	252166858 PEPTIDE 18 [PMID: 24350995]			
PCSK4	54760 GuideToPharmac inhibitor	252166868 FURIN INHIBITOR PEPTIDE			
PCSK5	5125 GuideToPharmac inhibitor	178103178 PHENYLACETYL-ARG-VAL-ARG-4-AMIDINOBENZYLAMIDE			
PCSK6	5046 GuideToPharmac inhibitor	252166858 PEPTIDE 18 [PMID: 24350995]			
PCSK7	9159 GuideToPharmac inhibitor	252166868 FURIN INHIBITOR PEPTIDE			

PCSK9	255738 TTD	BococizumabBococizumab		BOCOCIZUMAB	chembl:CHEMBL3137349	31.83
PCYT1A	5130 PharmGKB	lamivudine lamivudine		LAMIVUDINE	chembl:CHEMBL141	2.45
PCYT1B	9468 TTD	CT-2584 CT-2584		CT-2584	chembl:CHEMBL4297274	31.83
PCYT2	5833 PharmGKB	lamivudine lamivudine		LAMIVUDINE	chembl:CHEMBL141	2.45
PDCD1	5133 TTD	PDR001 PDR001		SPARTALIZUMAB	chembl:CHEMBL4297831	9.09
PDCD1LG2	80380 CIViC	PEMBROLIZPEMBROLIZUMAB		PEMBROLIZUMAB	chembl:CHEMBL3137343	2.89
PDCD4	27250 CIViC	PACLITAXEPACLITAXEL		PACLITAXEL	chembl:CHEMBL428647	1.31
PDE10A	10846 TTD	PMID273216PMID27321640-Compound-58				
PDE11A	50940 GuideToPharmac	inhibitor 178103173 BC11-38				
PDE1A	5136 GuideToPharmac	inhibitor 178101953 SCH51866				
PDE1B	5153 TTD	US9073936, US9073936, 3				
PDE1C	5137 GuideToPharmac	activator 135652052 CALMODULIN				
PDE2A	5138 TTD	Pyrido[3,2-e]Pyrido[3,2-e][1,2,4]triazolo[4,3-a]pyrazine derivative 2				
PDE3A	5139 TTD	VESNARINCVESNARINONE		VESNARINONE	chembl:CHEMBL17423	0.4
PDE3B	5140 ChemblInteractio	inhibitor CHEMBL19(THEOPHYLLINE		THEOPHYLLINE	chembl:CHEMBL190	0.24
PDE4A	5141 TdgClinicalTrial	ENPROFYLIENPROFYLLINE		ENPROFYLLINE	chembl:CHEMBL279898	9.24
PDE4B	5142 TdgClinicalTrial	RPL-554 RPL-554				
PDE4C	5143 ChemblInteractio	inhibitor CHEMBL12(OXTRIPHYLLINE		OXTRIPHYLLINE	chembl:CHEMBL1200434	0.4
PDE4D	5144 ChemblInteractio	inhibitor CHEMBL932DIPYRIDAMOLE		DIPYRIDAMOLE	chembl:CHEMBL932	0.04
PDE5A	8654 GuideToPharmac	inhibitor 178101953 SCH51866				
PDE6A	5145 GuideToPharmac	inhibitor 252827469 COMPOUND 53 [PMID: 19631533]				
PDE6B	5158 ChemblInteractio	inhibitor CHEMBL932DIPYRIDAMOLE		DIPYRIDAMOLE	chembl:CHEMBL932	0.61
PDE6C	5146 GuideToPharmac	inhibitor 384403679 PDE4 INHIBITOR 16				
PDE6D	5147 ChemblInteractio	inhibitor CHEMBL628PENTOXIFYLLINE		PENTOXIFYLLINE	chembl:CHEMBL628	0.94
PDE6G	5148 ChemblInteractio	inhibitor CHEMBL628PENTOXIFYLLINE		PENTOXIFYLLINE	chembl:CHEMBL628	0.94
PDE6H	5149 ChemblInteractio	inhibitor CHEMBL932DIPYRIDAMOLE		DIPYRIDAMOLE	chembl:CHEMBL932	0.61
PDE7A	5150 TEND	DYPHYLLINDYPHYLLINE		DYPHYLLINE	chembl:CHEMBL1752	6.06
PDE7B	27115 TdgClinicalTrial	DYPHYLLINDYPHYLLINE		DYPHYLLINE	chembl:CHEMBL1752	9.09
PDE8A	5151 GuideToPharmac	inhibitor 178101509 DIPYRIDAMOLE		DIPYRIDAMOLE	chembl:CHEMBL932	0.82
PDE8B	8622 ChemblInteractio	inhibitor CHEMBL628PENTOXIFYLLINE		PENTOXIFYLLINE	chembl:CHEMBL628	0.62
PDE9A	5152 ChemblInteractio	inhibitor CHEMBL628PENTOXIFYLLINE		PENTOXIFYLLINE	chembl:CHEMBL628	0.62
PDF	64146 TTD	Ustekinumab Ustekinumab		USTEKINUMAB	chembl:CHEMBL1201835	0.91
PDGFA	5154 MyCancerGenon	inhibitor SUNITINIB SUNITINIB		SUNITINIB	chembl:CHEMBL535	0.8
PDGFB	5155 TTD	CR-002 CR-002				
PDGFC	56034 MyCancerGenon	inhibitor SUNITINIB SUNITINIB		SUNITINIB	chembl:CHEMBL535	1.59
PDGFD	80310 MyCancerGenon	inhibitor SUNITINIB SUNITINIB		SUNITINIB	chembl:CHEMBL535	1.59
PDGFRA	5156 DoCM	IMATINIB IMATINIB		IMATINIB	chembl:CHEMBL941	0.59
PDGFRB	5159 ChemblInteractio	inhibitor CHEMBL576QUIZARTINIB		QUIZARTINIB	chembl:CHEMBL576982	0.18
PDHA1	5160 TdgClinicalTrial	CPI-613 CPI-613				
PDHA2	5161 TdgClinicalTrial	CPI-613 CPI-613				
PDHB	5162 TdgClinicalTrial	CPI-613 CPI-613				
PDHX	8050 NCI	AUTOANTICAUTOANTIGEN				

PDIA2	64714 PharmGKB	methylphenidmethylphenidate	METHYLPHENIDATE	chembl:CHEMBL796	2.83
PDK1	5163 TTD	Heterocyclic Heterocyclic derivative 13			
PDK2	5164 GuideToPharmac inhibitor	328083464 AZD7545			
PDK3	5165 TdgClinicalTrial	CPI-613 CPI-613			
PDK4	5166 TdgClinicalTrial	CPI-613 CPI-613			
PDPK1	5170 GuideToPharmac inhibitor	249565687 BX-912			
PDYN	5173 NCI	MORPHINE MORPHINE	MORPHINE	chembl:CHEMBL70	4.11
PEAR1	375033 PharmGKB	aspirin aspirin	ASPIRIN	chembl:CHEMBL25	0.87
PEBP1	5037 NCI	FLUTAMIDIFLUTAMIDE	FLUTAMIDE	chembl:CHEMBL806	3.35
PEBP4	157310 PharmGKB	methylphenidmethylphenidate	METHYLPHENIDATE	chembl:CHEMBL796	2.83
PECAM1	5175 NCI	RESVERATIRESVERATROL	RESVERATROL	chembl:CHEMBL165	2.65
PEMT	10400 ChEMBLInteractions	CHEMBL21(huHMFG1	HUHMFG1	chembl:CHEMBL2109637	5.3
PER1	5187 NCI	MORPHINE MORPHINE	MORPHINE	chembl:CHEMBL70	2.05
PERP	64065 PharmGKB	cyclophosphacyclophosphamide	CYCLOPHOSPHAMIDE	chembl:CHEMBL88	0.27
PFKFB3	5209 GuideToPharmac inhibitor	381118835 PFKFB3 KINASE INHIBITOR 69			
PGA3	643834 TEND	SUCRALFA`SUCRALFATE	SUCRALFATE	chembl:CHEMBL2367706	21.22
PGA5	5222 GuideToPharmac inhibitor	252166834 COMPOUND 3 [PMID: 8410973]			
PGAP6	58986 PharmGKB	remifentanil remifentanil	REMIFENTANIL	chembl:CHEMBL1005	12.73
PGC	5225 TdgClinicalTrial	ECABET ECABET	ECABET	chembl:CHEMBL2104585	31.83
PGD	5226 NCI	PENICILLAMPENICILLAMINE	PENICILLAMINE	chembl:CHEMBL1430	9.09
PGF	5228 TTD	SFLT-01 SFLT-01			
PGGT1B	5229 TdgClinicalTrial	GGTI-2418 GGTI-2418			
PGK1	5230 PharmGKB	lamivudine lamivudine	LAMIVUDINE	chembl:CHEMBL141	2.45
PGLYRP4	57115 PharmGKB	Tumor necrosTumor necrosis factor alpha (TNF-alpha) inhibitors			
PGM1	5236 PharmGKB	acetaldehyde acetaldehyde	ACETALDEHYDE	chembl:CHEMBL170365	21.22
PGP	283871 ClarityFoundationBiomark	ETOPOSIDE ETOPOSIDE	ETOPOSIDE	chembl:CHEMBL44657	0.41
PGR	5241 GuideToPharmac agonist	178103659 FLUTICASONE PROPIONATE			
PGRMC1	10857 TdgClinicalTrial	OPC-14523 OPC-14523			
PHB2	11331 NCI	STEROID H(STEROID HORMONE			
PHEX	5251 NCI	RHGH RHGH			
PHF8	23133 GuideToPharmac inhibitor	178103604 DAMINOZIDE			
PHKG1	5260 GuideToPharmac inhibitor	249565884 A-443654	A-443654	chembl:CHEMBL379300	4.9
PHKG2	5261 DTC	SP-600125 SP-600125	SP-600125	chembl:CHEMBL1725279	0.06
PHOSPHO1	162466 DTC	LANSOPRA:LANSOPRAZOLE	LANSOPRAZOLE	chembl:CHEMBL480	1.22
PI3	5266 NCI	PROGESTEFPROGESTERONE	PROGESTERONE	chembl:CHEMBL103	1.77
PI4K2A	55361 GuideToPharmac inhibitor	135651426 ADENOSINE	ADENOSINE	chembl:CHEMBL477	5.79
PI4K2B	55300 GuideToPharmac inhibitor	135651426 ADENOSINE	ADENOSINE	chembl:CHEMBL477	5.79
PI4KA	5297 TTD	BYL719 BYL719	ALPELISIB	chembl:CHEMBL2396661	0.96
PI4KB	5298 GuideToPharmac inhibitor	178102683 PIK-93			
PICALM	8301 PharmGKB	calcium chanicalcium channel blockers			
PICK1	9463 PharmGKB	methampheta methamphetamine	METHAMPHETAMINE	chembl:CHEMBL1201201	4.9
PIEZO1	9780 GuideToPharmac inhibitor	381118822 DOOKU1			

PIGF	5281 Talc	antibody	ZALTRAP	ZALTRAP	ZALTRAP	wikidata:Q29006714	15.91
PIGM	93183 PharmGKB		methylphenid	methylphenidate	METHYLPHENIDATE	chembl:CHEMBL796	2.83
PIK3C2A	5286 MyCancerGenon	inhibitor	XL147	XL147	PILARALISIB	chembl:CHEMBL3360203	0.21
PIK3C2B	5287 MyCancerGenon	inhibitor	BYL719	BYL719	ALPELISIB	chembl:CHEMBL2396661	0.13
PIK3C2G	5288 MyCancerGenon	inhibitor	GDC-0980	GDC-0980	APITOLISIB	chembl:CHEMBL1922094	0.17
PIK3C3	5289 MyCancerGenon	inhibitor	PKI-587	PKI-587	GEDATOLISIB	chembl:CHEMBL592445	0.14
PIK3CA	5290 GuideToPharmac	inhibitor	249565638	ALPELISIB	ALPELISIB	chembl:CHEMBL2396661	0.3
PIK3CB	5291 GuideToPharmac	inhibitor	249565691	KU-0060648	CHEMBL1086377	chembl:CHEMBL1086377	0.16
PIK3CD	5293 ClarityFoundation	Clinical	NVP-BEZ242	NVP-BEZ242			
PIK3CG	5294 ChemblInteractio	inhibitor	CHEMBL23(TG100-115		TG100-115	chembl:CHEMBL230011	0.48
PIK3R1	5295 ClarityFoundation	Biomark	ZSTK474	ZSTK474			
PIK3R2	5296 MyCancerGenon	inhibitor	PF-4691502	PF-4691502	PF-04691502	chembl:CHEMBL1234354	0.21
PIK3R3	8503 MyCancerGenon	inhibitor	GDC-0941	GDC-0941	PICTILISIB	chembl:CHEMBL521851	0.13
PIK3R4	30849 MyCancerGenon	inhibitor	PI-103	PI-103	PI-103	chembl:CHEMBL573339	0.2
PIK3R5	23533 MyCancerGenon	inhibitor	SOPHORETISOPHORETIN		QUERCETIN	chembl:CHEMBL50	0.03
PIK3R6	146850 MyCancerGenon	inhibitor	PKI-587	PKI-587	GEDATOLISIB	chembl:CHEMBL592445	0.27
PIKFYVE	200576 TTD		LAM-002	LAM-002			
PIM1	5292 TTD		INCB53914	INCB53914			
PIM2	11040 GuideToPharmac	inhibitor	178101947	RUBOXISTAURIN	RUBOXISTAURIN	chembl:CHEMBL91829	1.14
PIM3	415116 TdgClinical	Trial	VADIMEZA	VADIMEZAN	VADIMEZAN	chembl:CHEMBL71263	0.75
PIN1	5300 DTC		PURPURIN	PURPURIN	PURPURIN	chembl:CHEMBL294264	0.14
PIP	5304 NCI		HORMONES	HORMONES			
PIP4K2A	5305 DTC		SJ000201788	SJ000201788	CHEMBL602923	chembl:CHEMBL602923	3.18
PIP5K1A	8394 GuideToPharmac	inhibitor	252166654	ISA-2011B			
PIP5K1C	23396 PharmGKB		ethanol	ethanol	ALCOHOL	chembl:CHEMBL545	0.74
PIPSL	266971 MyCancerGenon	inhibitor	CARFILZOM	CARFILZOMIB	CARFILZOMIB	chembl:CHEMBL451887	0.56
PKD2	5311 PharmGKB		allopurinol	allopurinol	ALLOPURINOL	chembl:CHEMBL1467	4.39
PKD2L1	9033 GuideToPharmac	blocker	135652735	GD3+			
PKM	5315 DTC		GNF-PF-281	GNF-PF-2812	CHEMBL125044	chembl:CHEMBL125044	0.2
PKMYT1	9088 GuideToPharmac	inhibitor	249565863	PD166285			
PKN1	5585 GuideToPharmac	inhibitor	249565832	RKI-1447			
PKN2	5586 DTC		PF-562271	PF-562271	PF-00562271	chembl:CHEMBL1084546	0.03
PKN3	29941 MyCancerGenon	inhibitor	SOPHORETISOPHORETIN		QUERCETIN	chembl:CHEMBL50	0.4
PLA2G10	8399 GuideToPharmac	inhibitor	252827445	COMPOUND 12E [PMID: 18605714]			
PLA2G1B	5319 NCI		MPA	MPA	PROGESTERONE	chembl:CHEMBL103	0.08
PLA2G2A	5320 NCI		DIFLUOROMDIFLUOROMETHYLORNITHINE				
PLA2G2D	26279 GuideToPharmac	inhibitor	252827445	COMPOUND 12E [PMID: 18605714]			
PLA2G2E	30814 GuideToPharmac	inhibitor	252827445	COMPOUND 12E [PMID: 18605714]			
PLA2G2F	64600 GuideToPharmac	inhibitor	252827445	COMPOUND 12E [PMID: 18605714]			
PLA2G3	50487 TdgClinical	Trial	MRX-4	MRX-4	CONTEZOLID ACEFOSAMIL	chembl:CHEMBL3989966	31.83
PLA2G4A	5321 TEND		FLUOROMEFLUOROMETHOLONE		FLUOROMETHOLONE	chembl:CHEMBL1200600	2.36
PLA2G5	5322 GuideToPharmac	inhibitor	252827445	COMPOUND 12E [PMID: 18605714]			

PLA2G6	8398 TEND	NIFLUMIC ANIFLUMIC ACID				
PLA2G7	7941 GuideToPharmac	inhibitor 178103948 RILAPLADIB	RILAPLADIB		chembl:CHEMBL2104981	21.22
PLAT	5327 NCI	LYMPHOKILYMPHOKINES				
PLAU	5328 NCI	RETINOL RETINOL	RETINOL		chembl:CHEMBL986	0.35
PLAUR	5329 NCI	ADENOVIR,ADENOVIRAL VECTOR				
PLCB1	23236 PharmGKB	Selective serc	Selective serotonin reuptake inhibitors			
PLCD3	113026 PharmGKB	diltiazem diltiazem	DILTIAZEM		chembl:CHEMBL23	10.61
PLCE1	51196 PharmGKB	hydrochlorotlhydrochlorothiazide	HYDROCHLOROTHIAZIDE		chembl:CHEMBL435	3.54
PLCG1	5335 PharmGKB	propionic aci	propionic acid derivatives			
PLCG2	5336 GuideToPharmac	inhibitor 252827477 CCT129957				
PLD1	5337 GuideToPharmac	inhibitor 252827439 FIPI				
PLD2	5338 DTC	TAMOXIFETAMOXIFEN	TAMOXIFEN		chembl:CHEMBL83	1.08
PLEKHA6	22874 PharmGKB	haloperidol haloperidol	HALOPERIDOL		chembl:CHEMBL54	1.79
PLEKHH2	130271 PharmGKB	atenolol atenolol	ATENOLOL		chembl:CHEMBL24	1.87
PLEKHJ1	55111 PharmGKB	candesartan candesartan	CANDESARTAN		chembl:CHEMBL1016	14.14
PLG	5340 TEND	UROKINASIUROKINASE	UROKINASE		chembl:CHEMBL1201420	3.29
PLIN1	5346 DTC	TOREMIFENTOREMIFENE CITRATE	TOREMIFENE CITRATE		chembl:CHEMBL1200675	0.91
PLIN3	10226 TdgClinicalTrial	IDURSULFAIDURSULFASE	IDURSULFASE		chembl:CHEMBL1201826	111.39
PLK1	5347 DTC	DNDI141705DNDI1417055	CHEMBL1486366		chembl:CHEMBL1486366	0.04
PLK2	10769 TTD	US8598172, US8598172, 1				
PLK3	1263 DTC	TAE-684 TAE-684	TAE-684		chembl:CHEMBL509032	0.05
PLK4	10733 DTC	GS 6201 GS 6201	GS 6201		chembl:CHEMBL260933	0.22
PLOD1	5351 TTD	Ascorbate Ascorbate				
PLTP	5360 NCI	VITAMIN E VITAMIN E				
PMAIP1	5366 NCI	BORTEZOMBORTEZOMIB	BORTEZOMIB		chembl:CHEMBL325041	1.41
PMCH	5367 PharmGKB	olanzapine olanzapine	OLANZAPINE		chembl:CHEMBL715	1.87
PMEL	6490 TTD	Multi-epitopeMulti-epitope tyrosinase/gp100 vaccine				
PML	5371 CIViC	GEMTUZUMGEMTUZUMAB OZOGAMICIN				
PMM2	5373 DTC	EBSELEN EBSELEN	EBSELEN		chembl:CHEMBL51085	1.82
PMP22	5376 NCI	PROGESTEFPROGESTERONE	PROGESTERONE		chembl:CHEMBL103	0.88
PMS2	5395 CIViC	NIVOLUMA NIVOLUMAB	NIVOLUMAB		chembl:CHEMBL2108738	8.49
PMVK	10654 GuideToPharmac	inhibitor 135651554 (R)-5-DIPHOSPHOMEVALONATE				
PNLIP	5406 DTC	HOOKEROSHOOKEROSIDE B	HOOKEROSIDE B		chembl:CHEMBL444815	18.19
PNMT	5409 NCI	NERVE GRCNERVE GROWTH FACTOR				
PNOC	5368 PharmGKB	methadone methadone	METHADONE		chembl:CHEMBL651	1.14
PNP	4860 ChemblInteractio	inhibitor CHEMBL55(FORODESINE HYDROCHL	FORODESINE HYDROCHLORID		chembl:CHEMBL550755	50.92
PNPLA3	80339 PharmGKB	vincristine vincristine	VINCRISTINE		chembl:CHEMBL90555	0.37
POLA1	5422 TdgClinicalTrial	BROMOVINBROMOVINYL DEOXYURIDINE				
POLA2	23649 TEND	DACARBAZDACARBAZINE	DACARBAZINE		chembl:CHEMBL476	24.48
POLB	5423 DTC	ALPHA,BETAALPHA,BETA-METHYLENCHEMBL1162298			chembl:CHEMBL1162298	0.7
POLD1	5424 ChemblInteractio	inhibitor CHEMBL16GEMCITABINE HYDROCH	GEMCITABINE HYDROCHLORID		chembl:CHEMBL1637	1.82
POLE	5426 ChemblInteractio	inhibitor CHEMBL10FLUDARABINE PHOSPHA	FLUDARABINE PHOSPHATE		chembl:CHEMBL1096882	2.12

POLG	5428 FDA	Valproic Acid	Valproic Acid			
POLH	5429 DTC	AG-538	AG-538	CHEMBL56393	chembl:CHEMBL56393	0.01
POLI	11201 DTC	RHEIN	RHEIN	RHEIN	chembl:CHEMBL418068	0.01
POLK	51426 DTC	RESVERATROL	RESVERATROL	RESVERATROL	chembl:CHEMBL165	0.01
POLL	27343 DTC	1-DEOXYRUBRALACTON	1-DEOXYRUBRALACTON	CHEMBL260980	chembl:CHEMBL260980	10.61
POLR1G	10849 PharmGKB	gemcitabine	gemcitabine	GEMCITABINE	chembl:CHEMBL888	0.39
POLR2A	5430 DTC	3'-DCTP	3'-DCTP	CHEMBL480328	chembl:CHEMBL480328	42.43
POLR3G	10622 PharmGKB	nevirapine	nevirapine	NEVIRAPINE	chembl:CHEMBL57	5.53
POLRMT	5442 DTC	2',2'-DIFLUORODEOXYCYTIDINE	2',2'-DIFLUORODEOXYCYTIDINE	2',2'-DIFLUORODEOXYCYTIDINE	chembl:CHEMBL1201383	127.3
POM121L2	94026 PharmGKB	opioids	opioids			
PON1	5444 PharmGKB	epirubicin	epirubicin	EPIRUBICIN	chembl:CHEMBL417	0.35
PON2	5445 PharmGKB	antidepressants	antidepressants			
POR	5447 PharmGKB	sirolimus	sirolimus	SIROLIMUS	chembl:CHEMBL413	0.28
PORCN	64840 TTD	ETC-192215	ETC-192215	ETC-159	chembl:CHEMBL3633802	31.83
POSTN	10631 NCI	ANTISERUM	ANTISERUM			
POU2F2	5452 DTC	LINAGLIPTIN	LINAGLIPTIN	LINAGLIPTIN	chembl:CHEMBL237500	63.65
POU5F1	5460 PharmGKB	phenytoin	phenytoin	PHENYTOIN	chembl:CHEMBL16	0.41
PPA1	5464 NCI	ETHANOL	ETHANOL	ALCOHOL	chembl:CHEMBL545	1.48
PPA2	27068 PharmGKB	risperidone	risperidone	RISPERIDONE	chembl:CHEMBL85	0.99
PPARA	5465 DTC	T091317	T091317	T091317	chembl:CHEMBL62136	0.16
PPARD	5467 DTC	PROPACHLOR	PROPACHLOR	PROPACHLOR	chembl:CHEMBL1394829	0.07
PPARG	5468 TdgClinicalTrial	GTF505	GTF505			
PPAT	5471 TTD	Azathioprine	Azathioprine	AZATHIOPRINE	chembl:CHEMBL1542	1.27
PPCDC	60490 PharmGKB	trastuzumab	trastuzumab	TRASTUZUMAB	chembl:CHEMBL1201585	0.76
PPIA	5478 GuideToPharmacoinhibitor	135652074	CYCLOSPORIN A			
PPIB	5479 TTD	L-Proline	L-Proline	PROLINE	chembl:CHEMBL54922	127.3
PPID	5481 TTD	US8901295	US8901295, F673			
PPIG	9360 TTD	MELARSOPROL	MELARSOPROL	MELARSOPROL	chembl:CHEMBL166	63.65
PPM1A	5494 TTD	VP-102	VP-102			
PPM1D	8493 DTC	DOXORUBICIN	DOXORUBICIN	DOXORUBICIN	chembl:CHEMBL53463	1.35
PPME1	51400 GuideToPharmacoinhibitor	252166809	ABL127			
PPOX	5498 TTD	Aminolevulinic Acid Hydrochloride	Aminolevulinic Acid Hydrochloride			
PPP1CA	5499 TTD	CANTHARIDIN	CANTHARIDIN	CANTHARIDIN	chembl:CHEMBL48449	10.61
PPP1R13L	10848 PharmGKB	gemcitabine	gemcitabine	GEMCITABINE	chembl:CHEMBL888	0.39
PPP1R18	170954 PharmGKB	carboplatin	carboplatin	CARBOPLATIN	chembl:CHEMBL1351	0.81
PPP1R1A	5502 NCI	INSULIN	INSULIN	INSULIN	chembl:CHEMBL1201631	2.5
PPP1R1B	84152 TdgClinicalTrial	ITI-007	ITI-007	LUMATEPERONE	chembl:CHEMBL3306803	6.37
PPP2CA	5515 TTD	VP-102	VP-102			
PPP2R5D	5528 PharmGKB	cyclophosphamide	cyclophosphamide	CYCLOPHOSPHAMIDE	chembl:CHEMBL88	0.27
PPP3CA	5530 TTD	Cyclosporine	Cyclosporine	CYCLOSPORINE	chembl:CHEMBL160	0.26
PPP3CB	5532 TdgClinicalTrial	VOCLOSPORIN	VOCLOSPORIN	VOCLOSPORIN	chembl:CHEMBL2218919	12.73
PPP3CC	5533 TdgClinicalTrial	VOCLOSPORIN	VOCLOSPORIN	VOCLOSPORIN	chembl:CHEMBL2218919	12.73

PPP3R2	5535 TdgClinicalTrial	CYCLOSPORINE A			
PPT1	5538 NCI	LAMOTRIGINE	LAMOTRIGINE	chembl:CHEMBL741	2.45
PPY	5539 NCI	CISAPRIDE	CISAPRIDE	chembl:CHEMBL1729	8.49
PRB2	653247 TTD	MLN9708	MLN9708		
PRCP	5547 TTD	Piperidinyl piperidinyl pyrazole derivative 3			
PRDX1	5052 NCI	ANTIOXIDANT			
PRDX4	10549 PharmGKB	docetaxel	DOCETAXEL	chembl:CHEMBL92	1.61
PRDX5	25824 DTC	2-(2-HYDROXYBENZYL)PIPERIDINE	CHEMBL148831	chembl:CHEMBL148831	63.65
PREP	5550 GuideToPharmacoinhibitor	405560408 POSTSTATIN			
PREX2	80243 CIViC	VEMURAFENIB	VEMURAFENIB	chembl:CHEMBL1229517	4.24
PRF1	5551 NCI	IL-2	ALDESLEUKIN	wikidata:Q20801763	2.45
PRIM1	5557 NCI	3'-DEOXYADENOSINE			
PRKAA1	5562 NCI	DEOXYCOFORMYCIN	PENTOSTATIN	chembl:CHEMBL1580	2.45
PRKAA2	5563 PharmGKB	metformin	METFORMIN	chembl:CHEMBL1431	1.34
PRKAB1	5564 NCI	ANTIOXIDANT			
PRKAB2	5565 DTC	SAPONARIN	SAPONARIN	chembl:CHEMBL538921	9.09
PRKACA	5566 DTC	ALISERTIB	ALISERTIB	chembl:CHEMBL483158	0.07
PRKACB	5567 GuideToPharmacoinhibitor	178101884 GSK690693	GSK-690693	chembl:CHEMBL494089	1.93
PRKACG	5568 ChemblInteractioninhibitor	CHEMBL494089 GSK-690693	GSK-690693	chembl:CHEMBL494089	2.89
PRKAG1	5571 DTC	METFORMIN	METFORMIN	chembl:CHEMBL1431	3.35
PRKAG2	51422 DTC	SAPONARIN	SAPONARIN	chembl:CHEMBL538921	6.06
PRKAG3	53632 DTC	SAPONARIN	SAPONARIN	chembl:CHEMBL538921	9.09
PRKAR2B	5577 NCI	THEOPHYLLINE	THEOPHYLLINE	chembl:CHEMBL190	5.3
PRKCA	5578 GuideToPharmacoinhibitor	178102320 ENZASTAURIN	ENZASTAURIN	chembl:CHEMBL300138	0.64
PRKCB	5579 TdgClinicalTrial	BRYOSTATIN	BRYOSTATIN	chembl:CHEMBL449158	1.06
PRKCD	5580 DTC	TAE-684	TAE-684	chembl:CHEMBL509032	0.02
PRKCE	5581 DTC	PHORBOL MYRISTATE ACETATE	PHORBOL MYRISTATE ACETATE	chembl:CHEMBL279115	1.7
PRKCG	5582 GuideToPharmacoinhibitor	178101947 RUBOXISTAURIN	RUBOXISTAURIN	chembl:CHEMBL91829	0.38
PRKCH	5583 GuideToPharmacoinhibitor	249565629 SOTRASTAUIN	SOTRASTAUIN	chembl:CHEMBL565612	0.28
PRKCI	5584 DTC	GSK-269962A	GSK-269962A	chembl:CHEMBL220241	0.14
PRKCQ	5588 GuideToPharmacoinhibitor	329968392 PKC INHIBITOR 14			
PRKCZ	5590 DTC	CENISERTIB	CENISERTIB	chembl:CHEMBL1967878	0.05
PRKD1	5587 GuideToPharmacoinhibitor	178102596 GÖ 6976			
PRKD2	25865 DTC	VER-49009	CHEMBL365617	chembl:CHEMBL365617	0.24
PRKD3	23683 DTC	CENISERTIB	CENISERTIB	chembl:CHEMBL1967878	0.01
PRKDC	5591 GuideToPharmacoinhibitor	252827496 TORIN 2			
PRKG1	5592 DTC	GSK-269962A	GSK-269962A	chembl:CHEMBL220241	0.16
PRKG2	5593 GuideToPharmacoinhibitor	249565864 COMPOUND 32 [PMID: 20471253]			
PRKX	5613 GuideToPharmacoinhibitor	178101884 GSK690693	GSK-690693	chembl:CHEMBL494089	0.21
PRL	5617 NCI	MANNITOL	MANNITOL	chembl:CHEMBL689	0.64
PRLHR	2834 GuideToPharmacagonist	135651864 PRRP-20			
PRLR	5618 TTD	LFA-102	LFA-102		

PRMT1	3276 DTC	FURAMIDIN	FURAMIDINE	FURAMIDINE	chembl:CHEMBL24057	5.09
PRMT3	10196 GuideToPharmac	inhibitor	310264736 MS023			
PRMT5	10419 GuideToPharmac	inhibitor	336446913 LLY-283			
PRMT6	55170 GuideToPharmac	inhibitor	310264736 MS023			
PRMT7	54496 GuideToPharmac	inhibitor	252166606 DS-437			
PRMT8	56341 GuideToPharmac	inhibitor	310264736 MS023			
PRNP	5621 DTC	BREFELDIN	BREFELDIN A	BREFELDIN A	chembl:CHEMBL19980	9.09
PROC	5624 TTD	Sodium Tetra	Sodium Tetradecyl Sulfate			
PROCR	10544 TdgClinicalTrial	GED-APC	GED-APC			
PROKR1	10887 GuideToPharmac	agonist	252166719 IS1			
PROKR2	128674 GuideToPharmac	agonist	135651862 PROKINETICIN-2			
PROM1	8842 TTD	CAR-T cells	CAR-T cells targeting CD133			
PRORP	9692 PharmGKB	zileuton	zileuton	ZILEUTON	chembl:CHEMBL93	15.91
PROS1	5627 FDA	Warfarin	Warfarin	WARFARIN	chembl:CHEMBL1464	0.59
PROX1	5629 PharmGKB	atenolol	atenolol	ATENOLOL	chembl:CHEMBL24	1.87
PROZ	8858 TEND	MENADION	MENADIONE	MENADIONE	chembl:CHEMBL590	6.82
PRPF31	26121 PharmGKB	metformin	metformin	METFORMIN	chembl:CHEMBL1431	3.35
PRPS1	5631 CIViC	THIOGUANIN	THIOGUANINE	THIOGUANINE	chembl:CHEMBL727	1.63
PRRC2A	7916 PharmGKB	carbamazepir	carbamazepine	CARBAMAZEPINE	chembl:CHEMBL108	0.9
PRRT2	112476 MyCancerGenon	inhibitor	BRYOSTATIN	BRYOSTATIN	chembl:CHEMBL449158	5.3
PRSS1	5644 GuideToPharmac	inhibitor	178101079 NAFAMOSTAT	NAFAMOSTAT	chembl:CHEMBL273264	1.65
PRSS2	5645 TdgClinicalTrial	DERMOLAS	DERMOLASTIN			
PRSS3	5646 DTC	CYANOPEP	CYANOPEPTOLIN SS	CYANOPEPTOLIN SS	chembl:CHEMBL1076839	7.07
PRSS53	339105 PharmGKB	warfarin	warfarin	WARFARIN	chembl:CHEMBL1464	1.77
PRSS8	5652 GuideToPharmac	inhibitor	223366189 B3C			
PRTN3	5657 GuideToPharmac	inhibitor	252166826 COMPOUND 4G [PMID: 22595175]			
PSCA	8000 TTD	CAR-T Cells	CAR-T Cells targeting PSCA			
PSEN1	5663 MyCancerGenon	inhibitor	MK0752	MK0752		
PSEN2	5664 TdgClinicalTrial	BMS-299897	BMS-299897	CHEMBL247471	chembl:CHEMBL247471	1.77
PSENEN	55851 TALC	inhibitor	RO 4929097	RO 4929097		
PSIP1	11168 TTD	US9132129,	US9132129, Cpd002			
PSMA1	5682 ChemblInteractio	inhibitor	CHEMBL325	BORTEZOMIB	chembl:CHEMBL325041	0.57
PSMA2	5683 ChemblInteractio	inhibitor	CHEMBL354	IXAZOMIB CITRATE	chembl:CHEMBL3545432	0.34
PSMA3	5684 MyCancerGenon	inhibitor	CARFILZOM	CARFILZOMIB	chembl:CHEMBL451887	0.89
PSMA4	5685 DTC	CARFILZOM	CARFILZOMIB	CARFILZOMIB	chembl:CHEMBL451887	0.74
PSMA5	5686 MyCancerGenon	inhibitor	CARFILZOM	CARFILZOMIB	chembl:CHEMBL451887	0.89
PSMA6	5687 ChemblInteractio	inhibitor	CHEMBL451	CARFILZOMIB	chembl:CHEMBL451887	0.89
PSMA7	5688 DTC	BORTEZOM	BORTEZOMIB	BORTEZOMIB	chembl:CHEMBL325041	0.57
PSMA8	143471 DTC	CARFILZOM	CARFILZOMIB	CARFILZOMIB	chembl:CHEMBL451887	0.89
PSMB1	5689 TdgClinicalTrial	MLN-9708	MLN-9708	IXAZOMIB CITRATE	chembl:CHEMBL3545432	0.56
PSMB10	5699 MyCancerGenon	inhibitor	BORTEZOM	BORTEZOMIB	chembl:CHEMBL325041	0.57
PSMB11	122706 ChemblInteractio	inhibitor	CHEMBL210	OPROZOMIB	chembl:CHEMBL2103884	0.33

PSMB2	5690 ChemblInteractio	inhibitor	CHEMBL451	CARFILZOMIB	CARFILZOMIB	chembl:CHEMBL451887	0.84
PSMB3	5691 MyCancerGenon	inhibitor	BORTEZOMB	BORTEZOMIB	BORTEZOMIB	chembl:CHEMBL325041	0.57
PSMB4	5692 ChemblInteractio	inhibitor	CHEMBL210	OPROZOMIB	OPROZOMIB	chembl:CHEMBL2103884	0.33
PSMB5	5693 TdgClinicalTrial		BORTEZOMB	BORTEZOMIB	BORTEZOMIB	chembl:CHEMBL325041	0.51
PSMB6	5694 MyCancerGenon	inhibitor	CARFILZOM	CARFILZOMIB	CARFILZOMIB	chembl:CHEMBL451887	0.89
PSMB7	5695 MyCancerGenon	inhibitor	CARFILZOM	CARFILZOMIB	CARFILZOMIB	chembl:CHEMBL451887	0.89
PSMB8	5696 MyCancerGenon	inhibitor	CARFILZOM	CARFILZOMIB	CARFILZOMIB	chembl:CHEMBL451887	0.7
PSMB9	5698 DTC		CARFILZOM	CARFILZOMIB	CARFILZOMIB	chembl:CHEMBL451887	0.93
PSMC1	5700 ChemblInteractio	inhibitor	CHEMBL354	IXAZOMIB CITRATE	IXAZOMIB CITRATE	chembl:CHEMBL3545432	0.42
PSMC1P1	151645 MyCancerGenon	inhibitor	BORTEZOMB	BORTEZOMIB	BORTEZOMIB	chembl:CHEMBL325041	0.35
PSMC2	5701 ChemblInteractio	inhibitor	CHEMBL325	BORTEZOMIB	BORTEZOMIB	chembl:CHEMBL325041	0.71
PSMC3	5702 MyCancerGenon	inhibitor	BORTEZOMB	BORTEZOMIB	BORTEZOMIB	chembl:CHEMBL325041	0.71
PSMC3IP	29893 MyCancerGenon	inhibitor	BORTEZOMB	BORTEZOMIB	BORTEZOMIB	chembl:CHEMBL325041	0.35
PSMC4	5704 DTC		CARFILZOM	CARFILZOMIB	CARFILZOMIB	chembl:CHEMBL451887	1.12
PSMC5	5705 MyCancerGenon	inhibitor	IXAZOMIB	IXAZOMIB	IXAZOMIB	chembl:CHEMBL2141296	4.24
PSMC6	5706 MyCancerGenon	inhibitor	CARFILZOM	CARFILZOMIB	CARFILZOMIB	chembl:CHEMBL451887	1.12
PSMD1	5707 TdgClinicalTrial		OPROZOMI	OPROZOMIB	OPROZOMIB	chembl:CHEMBL2103884	0.82
PSMD10	5716 MyCancerGenon	inhibitor	BORTEZOMB	BORTEZOMIB	BORTEZOMIB	chembl:CHEMBL325041	0.35
PSMD10P1	170541 MyCancerGenon	inhibitor	CARFILZOM	CARFILZOMIB	CARFILZOMIB	chembl:CHEMBL451887	0.56
PSMD10P2	280644 MyCancerGenon	inhibitor	BORTEZOMB	BORTEZOMIB	BORTEZOMIB	chembl:CHEMBL325041	0.35
PSMD10P3	338091 MyCancerGenon	inhibitor	BORTEZOMB	BORTEZOMIB	BORTEZOMIB	chembl:CHEMBL325041	0.35
PSMD11	5717 ChemblInteractio	inhibitor	CHEMBL325	BORTEZOMIB	BORTEZOMIB	chembl:CHEMBL325041	0.71
PSMD12	5718 ChemblInteractio	inhibitor	CHEMBL354	IXAZOMIB CITRATE	IXAZOMIB CITRATE	chembl:CHEMBL3545432	0.42
PSMD13	5719 MyCancerGenon	inhibitor	CARFILZOM	CARFILZOMIB	CARFILZOMIB	chembl:CHEMBL451887	1.12
PSMD14	10213 ChemblInteractio	inhibitor	CHEMBL451	CARFILZOMIB	CARFILZOMIB	chembl:CHEMBL451887	0.41
PSMD2	5708 ChemblInteractio	inhibitor	CHEMBL354	IXAZOMIB CITRATE	IXAZOMIB CITRATE	chembl:CHEMBL3545432	0.84
PSMD3	5709 MyCancerGenon	inhibitor	BORTEZOMB	BORTEZOMIB	BORTEZOMIB	chembl:CHEMBL325041	0.71
PSMD4	5710 NCI		PROTEASO	PROTEASOME INHIBITOR			
PSMD4P1	54035 MyCancerGenon	inhibitor	BORTEZOMB	BORTEZOMIB	BORTEZOMIB	chembl:CHEMBL325041	0.35
PSMD5	5711 MyCancerGenon	inhibitor	CARFILZOM	CARFILZOMIB	CARFILZOMIB	chembl:CHEMBL451887	0.56
PSMD6	9861 ChemblInteractio	inhibitor	CHEMBL451	CARFILZOMIB	CARFILZOMIB	chembl:CHEMBL451887	1.12
PSMD7	5713 NCI		PROTEASO	PROTEASOME INHIBITOR			
PSMD8	5714 MyCancerGenon	inhibitor	BORTEZOMB	BORTEZOMIB	BORTEZOMIB	chembl:CHEMBL325041	0.71
PSMD9	5715 MyCancerGenon	inhibitor	BORTEZOMB	BORTEZOMIB	BORTEZOMIB	chembl:CHEMBL325041	0.35
PSME1	5720 MyCancerGenon	inhibitor	BORTEZOMB	BORTEZOMIB	BORTEZOMIB	chembl:CHEMBL325041	0.35
PSME2	5721 MyCancerGenon	inhibitor	CARFILZOM	CARFILZOMIB	CARFILZOMIB	chembl:CHEMBL451887	0.56
PSME2P2	338099 MyCancerGenon	inhibitor	BORTEZOMB	BORTEZOMIB	BORTEZOMIB	chembl:CHEMBL325041	0.35
PSME3	10197 MyCancerGenon	inhibitor	BORTEZOMB	BORTEZOMIB	BORTEZOMIB	chembl:CHEMBL325041	0.35
PSME4	23198 MyCancerGenon	inhibitor	BORTEZOMB	BORTEZOMIB	BORTEZOMIB	chembl:CHEMBL325041	0.35
PSMF1	9491 MyCancerGenon	inhibitor	BORTEZOMB	BORTEZOMIB	BORTEZOMIB	chembl:CHEMBL325041	0.35
PSORS1C1	170679 PharmGKB		carboplatin	carboplatin	CARBOPLATIN	chembl:CHEMBL1351	0.4
PSORS1C3	100130889 PharmGKB		allopurinol	allopurinol	ALLOPURINOL	chembl:CHEMBL1467	4.39

PSPH	5723 PharmGKB	l-methionine l-methionine	METHIONINE	chembl:CHEMBL42336	25.46
PTAFR	5724 GuideToPharmac antagonist	178102699 BEPAFANT	BEPAFANT	chembl:CHEMBL325439	4.9
PTBP1	5725 DTC	MMV085203MMV085203	CHEMBL586031	chembl:CHEMBL586031	0.82
PTCH1	5727 CIViC	SONIDE GIB SONIDE GIB	SONIDE GIB	chembl:CHEMBL2105737	19.1
PTEN	5728 CIViC	PI3KBETA IIPI3KBETA INHIBITOR AZD8186			
PTGDR	5729 TTD	PGF2alpha PGF2alpha			
PTGDR2	11251 GuideToPharmac agonist	135650390 INDOMETHACIN	INDOMETHACIN	chembl:CHEMBL6	0.37
PTGDS	5730 NCI	HORMONESHORMONES			
PTGER1	5731 TTD	AS-013 AS-013	ECRAPROST	chembl:CHEMBL2104574	3.54
PTGER2	5732 GuideToPharmac agonist	135651569 [3H]PGE2			
PTGER3	5733 GuideToPharmac agonist	135650113 CLOPROSTENOL	CLOPROSTENOL	chembl:CHEMBL37853	0.8
PTGER4	5734 TdgClinicalTrial	DINOPROSTIDINOPROSTONE	DINOPROSTONE	chembl:CHEMBL548	2.72
PTGES	9536 TTD	Benzamide dBenzamide derivative 14			
PTGES2	80142 GuideToPharmac inhibitor	252827470 COMPOUND 30 [PMID: 15953724]			
PTGES3	10728 NCI	GENISTEIN GENISTEIN	GENISTEIN	chembl:CHEMBL44	0.79
PTGFR	5737 GuideToPharmac agonist	135651094 SULPROSTONE	SULPROSTONE	chembl:CHEMBL1472830	1.25
PTGIR	5739 TTD	Misoprostol Misoprostol	MISOPROSTOL	chembl:CHEMBL606	3.74
PTGIS	5740 TEND	PHENYLBU PHENYL BUTAZONE	PHENYL BUTAZONE	chembl:CHEMBL101	37.13
PTGS1	5742 ChemblInteractio inhibitor	CHEMBL95(SUPROFEN	SUPROFEN	chembl:CHEMBL956	4.82
PTGS2	5743 TTD	Tolmetin Tolmetin	TOLMETIN	chembl:CHEMBL1020	2.17
PTH	5741 NCI	PUROMYCIPUROMYCIN	PUROMYCIN	chembl:CHEMBL469912	0.94
PTH1R	5745 DTC	9-AMINOC A9-AMINOCAMPTOTHECIN9-AMINOCAMPTOTHECIN		chembl:CHEMBL274070	0.64
PTH2R	5746 GuideToPharmac agonist	135652417 TERIPARATIDE	TERIPARATIDE	chembl:CHEMBL525610	7.07
PTHLH	5744 NCI	MAGNESIU M MAGNESIUM SULFATE			
PTK2	5747 DTC	DNDI141746DNDI1417467	CHEMBL1997335	chembl:CHEMBL1997335	0.06
PTK2B	2185 TTD	PMID277748PMID27774822-Compound-Figure10Example1			
PTK6	5753 GuideToPharmac inhibitor	249565866 COMPOUND 19A [PMID: 21855335]			
PTK7	5754 TTD	PF-06647020PF-06647020	COFETUZUMAB PELIDOTIN	chembl:CHEMBL3989983	63.65
PTMA	5757 TdgClinicalTrial	THYMALFATHYMALFASIN	THYMALFASIN	chembl:CHEMBL2103979	63.65
PTP4A1	7803 NCI	HALOFUGINHALOFUGINONE	HALOFUGINONE	chembl:CHEMBL1197091	21.22
PTP4A3	11156 CIViC	CETUXIMA I CETUXIMAB	CETUXIMAB	chembl:CHEMBL1201577	1.48
PTPA	5524 TTD	LB-100 LB-100	LB-100	chembl:CHEMBL4297300	21.22
PTPN1	5770 GuideToPharmac inhibitor	252827507 COMPOUND 7B [HAFTCHENARY ET AL., 2013]			
PTPN11	5781 JAX-CKB	II-B08 II-B08			
PTPN12	5782 CIViC	CRIZOTINIECRIZOTINIB	CRIZOTINIB	chembl:CHEMBL601719	2.36
PTPN13	5783 NCI	ANTIESTROANTIESTROGENS			
PTPN22	26191 DTC	GNF-PF-227;GNF-PF-2272	CHEMBL601757	chembl:CHEMBL601757	0.33
PTPN4	5775 TEND	ALENDRONALENDRONATE	ALENDRONIC ACID	chembl:CHEMBL870	7.96
PTPN5	84867 DTC	MESO-2,3-D MESO-2,3-DIMERCAPTOSI	CHEMBL28721	chembl:CHEMBL28721	10.61
PTPN6	5777 TTD	BDBM50054BDBM50054344			
PTPN7	5778 DTC	PROSTAGL PROSTAGLANDIN A2	PROSTAGLANDIN A2	chembl:CHEMBL1084643	0.96
PTPRB	5787 TTD	AKB-9778 AKB-9778	RAZUPROTAFIB	chembl:CHEMBL3931971	15.91

PTPRC	5788 TTD	[131I]-BC8	[131I]-BC8				
PTPRD	5789 TTD	US9340574,	US9340574, 7				
PTPRF	5792 CIViC	ERLOTINIB	ERLOTINIB	ERLOTINIB HYDROCHLORIDE			
PTPRG	5793 GuideToPharmac	inhibitor	252827488	COMPOUND 1 [PMID: 21882820]			
PTPRM	5797 PharmGKB	methotrexate	methotrexate	METHOTREXATE	chembl:CHEMBL34259	1.18	
PTPRS	5802 GuideToPharmac	inhibitor	252827507	COMPOUND 7B [HAFTCHENARY ET AL., 2013]			
PTPRZ1	5803 NCI	RETINOIC	ARETINOIC	ACID			
PURA	5813 PharmGKB	methylphenid	methylphenidate	METHYLPHENIDATE	chembl:CHEMBL796	2.83	
PVALB	5816 NCI	SALINE	SALINE	SODIUM CHLORIDE	chembl:CHEMBL1200574	9.09	
PVT1	5820 NCI	GLIVEC	GLIVEC	GLIVEC	wikidata:Q29005907	127.3	
PXN	5829 NCI	H2O2	H2O2				
PYGB	5834 TdgClinicalTrial	PSN357	PSN357				
PYGL	5836 PharmGKB	dexamethasoid	dexamethasone	DEXAMETHASONE	chembl:CHEMBL384467	0.51	
PYGM	5837 NCI	RU 486	RU 486				
PYY	5697 TTD	Peptide YY 3	Peptide YY 3-36				
PZP	5858 NCI	DEXAMETH	DEXAMETHASONE	DEXAMETHASONE	chembl:CHEMBL384467	0.38	
QPCT	25797 TTD	PQ-912	PQ-912				
QPRT	23475 TdgClinicalTrial	ARI-3037	MCARI-3037	MO			
QRFPR	84109 GuideToPharmac	agonist	178102518	QRFP26			
RAB27A	5873 GuideToPharmac	inhibitor	328083519	NEXINHIB20			
RAB5A	5868 NCI	HGF	HGF				
RAB9A	9367 DTC	NSC-234945	NSC-234945	CHEMBL260311	chembl:CHEMBL260311	0.04	
RABEP1	9135 PharmGKB	lithium	lithium	LITHIUM	chembl:CHEMBL2146126	0.31	
RABGAP1L	9910 PharmGKB	ethanol	ethanol	ALCOHOL	chembl:CHEMBL545	0.74	
RAC1	5879 CIViC	VEMURAFE	VEMURAFENIB	VEMURAFENIB	chembl:CHEMBL1229517	0.8	
RAC2	5880 PharmGKB	idarubicin	idarubicin	IDARUBICIN	chembl:CHEMBL1117	1.77	
RACGAP1	29127 DTC	TCMDC-124	TCMDC-124522	CHEMBL526776	chembl:CHEMBL526776	0.23	
RAD21	5885 JAX-CKB	N/A	N/A				
RAD50	10111 CIViC	CHECKPOINT	CHECKPOINT KINASE INHIBITOR	AZD7762			
RAD51	5888 TdgClinicalTrial	AMUVATIN	AMUVATINIB	AMUVATINIB	chembl:CHEMBL2103851	9.09	
RAD52	5893 DTC	R(-)-APOC	R(-)-APOCODEINE HCL	CHEMBL1256735	chembl:CHEMBL1256735	0.24	
RAD54L	8438 DTC	ACRIDIN-1-	ACRIDIN-1-YLAMINE	CHEMBL146525	chembl:CHEMBL146525	0.19	
RAF1	5894 TdgClinicalTrial	SORAFENIB	SORAFENIB	SORAFENIB	chembl:CHEMBL1336	0.47	
RALA	5898 NCI	VITAMIN E	VITAMIN E				
RALBP1	10928 PharmGKB	carbamazepir	carbamazepine	CARBAMAZEPINE	chembl:CHEMBL108	1.35	
RAMP1	10267 TEND	PRAMLINTI	PRAMLINTIDE	PRAMLINTIDE	chembl:CHEMBL2103758	42.43	
RAMP2	10266 ChemblInteractio	agonist	CHEMBL38:PRAMLINTIDE	ACETATE	PRAMLINTIDE ACETATE	chembl:CHEMBL3833353	7.96
RAMP3	10268 TEND	PRAMLINTI	PRAMLINTIDE	PRAMLINTIDE	chembl:CHEMBL2103758	42.43	
RAPGEF3	10411 DTC	CRYPTOTA	CRYPTOTANSHINONE	CRYPTOTANSHINONE	chembl:CHEMBL187460	0.14	
RAPGEF4	11069 DTC	CLOTRIMA	CLOTRIMAZOLE	CLOTRIMAZOLE	chembl:CHEMBL104	0.04	
RAPGEF5	9771 PharmGKB	antidepressan	antidepressants				
RARA	5914 GuideToPharmac	agonist	135650006	BMS753			

RARB	5915 GuideToPharmacagonist	53801005 CD666				
RARG	5916 TTD	PMID273362PMID27336223-Compound-12				
RARRES1	5918 TEND	TRETINOIN TRETINOIN	TRETINOIN		chembl:CHEMBL38	5.79
RARS1	5917 PharmGKB	cisplatin cisplatin	CISPLATIN		chembl:CHEMBL11359	0.88
RASA1	5921 CIViC	TRAMETINITRAMETINIB	TRAMETINIB		chembl:CHEMBL2103875	3.03
RASGRP1	10125 DTC	PHORBOL MPHORBOL MYRISTATE ACPHORBOL MYRISTATE ACETAT			chembl:CHEMBL279115	12.73
RASGRP3	25780 DTC	PHORBOL MPHORBOL MYRISTATE ACPHORBOL MYRISTATE ACETAT			chembl:CHEMBL279115	19.1
RB1	5925 JAX-CKB	Trilaciclib Trilaciclib	TRILACICLIB		chembl:CHEMBL3894860	0.96
RBBP9	10741 GuideToPharmac	inhibitor 252166808 ALA(1-NAPH)-PRO-CN				
RBFOX1	54715 PharmGKB	antineoplasticantineoplastic agents				
RBL1	5933 NCI	HMBA HMBA				
RBL2	5934 NCI	RAPAMYCIRAPAMYCIN	SIROLIMUS		chembl:CHEMBL413	2.27
RBMS3	27303 PharmGKB	BisphosphonaBisphosphonates				
RBP3	5949 NCI	RETINOL RETINOL	RETINOL		chembl:CHEMBL986	13.64
RBP4	5950 TTD	US8853215, US8853215, 3				
RBX1	9978 ChemblInteractio	inhibitor CHEMBL468THALIDOMIDE	THALIDOMIDE		chembl:CHEMBL468	0.3
RCE1	9986 DTC	NSC-37136 NSC-37136	CHEMBL1370674		chembl:CHEMBL1370674	3.03
RCSD1	92241 CIViC	IMATINIB IMATINIB	IMATINIB		chembl:CHEMBL941	1.99
RECQL	5965 DTC	PURPURIN PURPURIN	PURPURIN		chembl:CHEMBL294264	0.02
REEP5	7905 PharmGKB	sertraline sertraline	SERTRALINE		chembl:CHEMBL809	1.52
REG1A	5967 NCI	LINOMIDE LINOMIDE	ROQUINIMEX		chembl:CHEMBL11672	31.83
REG3A	5068 TTD	ALF-5755 ALF-5755				
RELA	5970 DTC	PYROGALLPYROGALLOL RED	PYROGALLOL RED		chembl:CHEMBL210208	0.1
REN	5972 TdgClinicalTrial	SPP635 SPP635				
RET	5979 CIViC	SORAFENIBSORAFENIB	SORAFENIB		chembl:CHEMBL1336	0.15
REV1	51455 PharmGKB	cisplatin cisplatin	CISPLATIN		chembl:CHEMBL11359	0.44
REV3L	5980 PharmGKB	fluorouracil fluorouracil	FLUOROURACIL		chembl:CHEMBL185	0.2
RFC1	5981 ClarityFoundationClinical	PRALATREPRALATREXATE	PRALATREXATE		chembl:CHEMBL1201746	21.22
RFK	55312 PharmGKB	escitalopram escitalopram	ESCITALOPRAM		chembl:CHEMBL1508	1.77
RFPL4B	442247 PharmGKB	o-desmethylo-desmethyltramadol				
RGL4	266747 PharmGKB	o-desmethylo-desmethyltramadol				
RGMA	56963 TTD	Elezanumab Elezanumab	ELEZANUMAB		chembl:CHEMBL4297743	127.3
RGS12	6002 DTC	LAVENDUS LAVENDUSTIN C	LAVENDUSTIN C		chembl:CHEMBL319620	2.65
RGS16	6004 TTD	s2901 s2901				
RGS17	26575 PharmGKB	antidepressanantidepressants				
RGS19	10287 PharmGKB	opioids opioids				
RGS2	5997 PharmGKB	haloperidol haloperidol	HALOPERIDOL		chembl:CHEMBL54	1.79
RGS4	5999 DTC	METHYLDCMETHYLDOPA	METHYLDOPA		chembl:CHEMBL459	0.02
RGS5	8490 PharmGKB	irinotecan irinotecan	IRINOTECAN		chembl:CHEMBL481	0.6
RGS8	85397 GuideToPharmac	inhibitor 249565573 CCG-50014	CHEMBL1917204		chembl:CHEMBL1917204	21.22
RHAG	6005 GuideToPharmacology	178101342 [14C]METHYLAMINE				
RHBDF2	79651 PharmGKB	opioids opioids				

RHD	6007 ChemblInteractio	inhibitor	CHEMBL21(ROZROLIMUPAB	ROZROLIMUPAB	chembl:CHEMBL2107859	21.22
RHEB	6009 DTC		4,4'-HYDRO,4,4'-HYDROXYBIPHENYL	CHEMBL76398	chembl:CHEMBL76398	63.65
RHO	6010 TTD		VX-210 VX-210			
RHOA	387 PharmGKB		pravastatin pravastatin	PRAVASTATIN	chembl:CHEMBL1144	0.91
RHOB	388 DTC		TRIMETHYITRIMETHYL-[3-(TETRADE	TRIMETHYL-[3-(TETRADECANE	chembl:CHEMBL2436861	63.65
RICTOR	253260 MyCancerGenon	inhibitor	MLN0128 MLN0128	SAPANISERTIB	chembl:CHEMBL3545097	0.69
RIPK1	8737 GuideToPharmac	inhibitor	340590273 RIPA-56			
RIPK2	8767 GuideToPharmac	inhibitor	315661219 GSK583			
RIPK3	11035 GuideToPharmac	inhibitor	384403680 RIPK3 INHIBITOR 42			
RIPOR2	9750 PharmGKB		rifampin rifampin	RIFAMPIN	chembl:CHEMBL374478	6.06
RIT1	6016 CIViC		PICTILISIB PICTILISIB	PICTILISIB	chembl:CHEMBL521851	2.12
RLN2	6019 NCI		NEOMYCIN NEOMYCIN	NEOMYCIN	chembl:CHEMBL3989751	25.46
RNASE1	6035 DTC		CYTIDINE 3' CYTIDINE 3'-PHOSPHATE	CHEMBL258728	chembl:CHEMBL258728	318.26
RNASEH2A	10535 NCI		PROGESTEPROGESTERONE	PROGESTERONE	chembl:CHEMBL103	0.88
RNASEL	6041 DTC		C-5966451 C-5966451	CHEMBL259819	chembl:CHEMBL259819	63.65
RNF112	7732 NCI		ETHANOL ETHANOL	ALCOHOL	chembl:CHEMBL545	1.48
RNF43	54894 TTD		RNF43-721 RNF43-721			
RNF8	9025 PharmGKB		carboplatin carboplatin	CARBOPLATIN	chembl:CHEMBL1351	0.54
RNPEP	6051 ChemblInteractio	inhibitor	CHEMBL21(TOSEDOSTAT	TOSEDOSTAT	chembl:CHEMBL2103847	3.35
RNPEPL1	57140 ChemblInteractio	inhibitor	CHEMBL21(TOSEDOSTAT	TOSEDOSTAT	chembl:CHEMBL2103847	3.35
ROCK1	6093 GuideToPharmac	inhibitor	336446944 BELUMOSUDIL			
ROCK2	9475 GuideToPharmac	inhibitor	178102655 RHO KINASE INHIBITOR IV			
ROR1	4919 TTD		CirmtuzumabCirmtuzumab	CIRMTUZUMAB	chembl:CHEMBL4297728	63.65
ROR2	4920 TTD		CCT301-59 (CCT301-59 (targeting ROR2)			
RORA	6095 PharmGKB		interferon betinterferon beta-1a			
RORB	6096 TTD		US9598431, :US9598431, 5			
RORC	6097 DTC		DOMIPHEN DOMIPHEN BROMIDE	DOMIPHEN BROMIDE	chembl:CHEMBL486696	0.1
ROS1	6098 TTD		Imidazo[1,2-Imidazo[1,2-b]pyridazine derivative 2			
RPA1	6117 DTC		NSC-15520 NSC-15520	CHEMBL1765371	chembl:CHEMBL1765371	127.3
RPE65	6121 TTD		AAV2-hRPEAAV2-hRPE65v2	VORETIGENE NEPARVOVEC	chembl:CHEMBL3707275	21.22
RPL10	6134 NCI		TRANSFORTRANSFORMING GROWTH FACTOR			
RPL13	6137 PharmGKB		docetaxel docetaxel	DOCETAXEL	chembl:CHEMBL92	0.81
RPS19	6223 NCI		VITAMIN A VITAMIN A			
RPS2	6187 NCI		FGF3 FGF3			
RPS6KA1	6195 TTD		1,6-diazanapl1,6-diazanaphthalenes and pyrido[2,3-d] pyrimidine derivative 1			
RPS6KA2	6196 TTD		BI-D1870 BI-D1870	CHEMBL573107	chembl:CHEMBL573107	31.83
RPS6KA3	6197 GuideToPharmac	inhibitor	249565819 COMPOUND 25B [PMID: 22564207]			
RPS6KA4	8986 DTC	inhibitor	HESPERADIHESPERADIN	HESPERADIN	chembl:CHEMBL514409	0.8
RPS6KA5	9252 DTC		PHA-767491 PHA-767491	CHEMBL225519	chembl:CHEMBL225519	0.12
RPS6KA6	27330 GuideToPharmac	inhibitor	249565632 AT-9283	AT-9283	chembl:CHEMBL495727	1.63
RPS6KB1	6198 ChemblInteractio	inhibitor	CHEMBL35-LY-2780301	LY-2780301	chembl:CHEMBL3545134	0.4
RPS6KB2	6199 ChemblInteractio	inhibitor	CHEMBL35-MSC-2363318A	MSC-2363318A	chembl:CHEMBL3545003	3.54

RPSA	3921 TTD	PMID257470	PMID25747044-Compound-miRNA			
RPTOR	57521 PharmGKB	everolimus	everolimus	EVEROLIMUS	chembl:CHEMBL1908360	0.41
RRAS2	22800 PharmGKB	tamoxifen	tamoxifen	TAMOXIFEN	chembl:CHEMBL83	2.16
RRM1	6240 CIViC	VINORELBIN	VINORELBINE	VINORELBINE	chembl:CHEMBL553025	0.52
RRM2	6241 ChEMBLInteractionInhibitor	CHEMBL467	HYDROXYUREA	HYDROXYUREA	chembl:CHEMBL467	1.05
RRM2B	50484 ChEMBLInteractionInhibitor	CHEMBL12	(GALLIUM NITRATE)	GALLIUM NITRATE	chembl:CHEMBL1200983	2.36
RRP1B	23076 PharmGKB	atenolol	atenolol	ATENOLOL	chembl:CHEMBL24	3.74
RRP7A	27341 PharmGKB	methylphenidate	methylphenidate	METHYLPHENIDATE	chembl:CHEMBL796	2.83
RSPO1	284654 TTD	NU-206	NU-206			
RSPO3	84870 TTD	Rosmuntuzumab	Rosmuntuzumab	ROSMANTUZUMAB	chembl:CHEMBL3990031	63.65
RTKN2	219790 PharmGKB	haloperidol	haloperidol	HALOPERIDOL	chembl:CHEMBL54	1.79
RTN4	57142 NCI	HYPERBARIC OXYGEN	HYPERBARIC OXYGEN			
RUNX1	861 DTC	FUMARPROTETRIC ACID	FUMARPROTETRIC ACID	FUMARPROTETRIC ACID	chembl:CHEMBL366861	0.15
RUNX2	860 NCI	ANTISENSE OLIGONUCLEOTIDES	ANTISENSE OLIGONUCLEOTIDES			
RUNX3	864 NCI	LEUCOVORIN	LEUCOVORIN	LEUCOVORIN	chembl:CHEMBL1679	2.27
RXFP1	59350 GuideToPharmacagonist	135652435	RELAXIN	RELAXIN	chembl:CHEMBL2107882	1.52
RXFP2	122042 GuideToPharmacagonist	135652522	[125I]INSL3 (HUMAN)			
RXFP3	51289 GuideToPharmacagonist	252166548	MINIMISED RELAXIN-3 ANALOGUE 2			
RXFP4	339403 GuideToPharmacagonist	252166562	INSL5 AMIDE (HUMAN)			
RXRA	6256 TEND	ALITRETINOL	ALITRETINOL	ALITRETINOL	chembl:CHEMBL705	1.45
RXRB	6257 TdgClinicalTrial	TRETINOIN	TRETINOIN	TRETINOIN	chembl:CHEMBL38	1.5
RXRG	6258 ChEMBLInteractionagonist	CHEMBL705	ALITRETINOL	ALITRETINOL	chembl:CHEMBL705	8.84
RYR1	6261 FDA	Sevoflurane	Sevoflurane	SEVOFLURANE	chembl:CHEMBL1200694	13.26
RYR2	6262 TTD	Dantrolene	Dantrolene	DANTROLENE	chembl:CHEMBL1201288	0.71
RYR3	6263 GuideToPharmacactivator	135652675	CAFFEINE	CAFFEINE	chembl:CHEMBL113	0.42
S100A10	6281 NCI	GONADOTROPINS	GONADOTROPINS			
S100A12	6283 TTD	Atogepant	Atogepant	ATOGE Pant	chembl:CHEMBL3991065	12.73
S100A2	6273 NCI	ANTISENSE OLIGONUCLEOTIDES	ANTISENSE OLIGONUCLEOTIDES			
S100A4	6275 TTD	SP-MET-1	SP-MET-1			
S100A8	6279 NCI	MTX	MTX	METHOTREXATE	chembl:CHEMBL34259	1.18
S100A9	6280 TTD	Paquinimod	Paquinimod	PAQUINIMOD	chembl:CHEMBL67776	31.83
S100B	6285 NCI	STREPTOZOCIN	STREPTOZOCIN	STREPTOZOCIN	chembl:CHEMBL1651906	1.38
S1PR1	1901 TTD	Fingolimod	Fingolimod	FINGOLIMOD	chembl:CHEMBL314854	7.58
S1PR2	9294 GuideToPharmacagonist	329968432	COMPOUND 43 [PMID: 26751273]			
S1PR3	1903 TTD	US8563594, US8563594, 152				
S1PR4	8698 GuideToPharmacagonist	178103571	VPC03090-P			
S1PR5	53637 GuideToPharmacagonist	318164808	SIPONIMOD	SIPONIMOD	chembl:CHEMBL2336071	7.96
SAA1	6288 NCI	IL-1RA	IL-1RA	ANAKINRA	chembl:CHEMBL1201570	7.96
SACM1L	22908 PharmGKB	bupropion	bupropion	BUPROPION	chembl:CHEMBL894	7.49
SAE1	10055 DTC	4-PHENYLAMINO-1,2-NAPHTHALENE	4-PHENYLAMINO-1,2-NAPHTHALENE	CHEMBL299853	chembl:CHEMBL299853	0.44
SAG	6295 NCI	BROMOCRIPTINE	BROMOCRIPTINE	BROMOCRIPTINE	chembl:CHEMBL493	0.91
SAMD3	154075 NCI	TGFBETA1	TGFBETA1			

SAMHD1	25939 PharmGKB	stavudine stavudine	STAVUDINE	chembl:CHEMBL991	9.09
SAP130	79595 DTC	SPLICEOST,SPLICEOSTATIN-A	CHEMBL1221944	chembl:CHEMBL1221944	42.43
SBK3	100130827 GuideToPharmac	249565893 COMPOUND R-16 [PMID: 21967808]			
SCAP	22937 PharmGKB	simvastatin simvastatin	SIMVASTATIN	chembl:CHEMBL1064	1.18
SCARB1	949 PharmGKB	peginterferon peginterferon alfa-2a			
SCD	6319 NCI	COLCHICIN COLCHICINE	COLCHICINE	chembl:CHEMBL107	0.52
SCG5	6447 NCI	CAPSAICIN CAPSAICIN	CAPSAICIN	chembl:CHEMBL294199	7.96
SCGB1A1	7356 NCI	RHIGF-1 RHIGF-1			
SCN10A	6336 ChemblInteractio	blocker CHEMBL12(ARTICAINE HYDROCHLO	ARTICAINE HYDROCHLORIDE	chembl:CHEMBL1200819	0.08
SCN11A	11280 ChemblInteractio	blocker CHEMBL35<NKTR-171	NKTR-171	chembl:CHEMBL3545209	0.11
SCN1A	6323 PharmGKB	levetiracetam levetiracetam	LEVETIRACETAM	chembl:CHEMBL1286	0.73
SCN1B	6324 TdgClinicalTrial	ZONISAMIDZONISAMIDE	ZONISAMIDE	chembl:CHEMBL750	22.14
SCN2A	6326 TdgClinicalTrial	PROPOFOL PROPOFOL	PROPOFOL	chembl:CHEMBL526	0.11
SCN2B	6327 TdgClinicalTrial	ZONISAMIDZONISAMIDE	ZONISAMIDE	chembl:CHEMBL750	22.14
SCN3A	6328 ChemblInteractio	blocker CHEMBL12(DRONEDARONE HYDROCD	DRONEDARONE HYDROCHLOR	chembl:CHEMBL1201729	0.07
SCN3B	55800 TdgClinicalTrial	ZONISAMIDZONISAMIDE	ZONISAMIDE	chembl:CHEMBL750	22.14
SCN4A	6329 ChemblInteractio	blocker CHEMBL31<ESLICARBAZEPINE	ESLICARBAZEPINE	chembl:CHEMBL315985	0.1
SCN4B	6330 TdgClinicalTrial	ZONISAMIDZONISAMIDE	ZONISAMIDE	chembl:CHEMBL750	22.14
SCN5A	6331 TEND	FOSPHENY<FOSPHENYTOIN	FOSPHENYTOIN	chembl:CHEMBL1201336	2.5
SCN7A	6332 ChemblInteractio	blocker CHEMBL85<PRIMIDONE	PRIMIDONE	chembl:CHEMBL856	0.04
SCN8A	6334 ChemblInteractio	blocker CHEMBL10<OXCARBAZEPINE	OXCARBAZEPINE	chembl:CHEMBL1068	0.05
SCN9A	6335 TTD	DWJ-208 DWJ-208			
SCNN1A	6337 PharmGKB	triamterene triamterene	TRIAMTERENE	chembl:CHEMBL585	8.84
SCNN1B	6338 TdgClinicalTrial	TRIAMTER<TRIAMTERENE	TRIAMTERENE	chembl:CHEMBL585	5.3
SCNN1D	6339 TEND	AMILORIDEAMILORIDE	AMILORIDE	chembl:CHEMBL945	15.91
SCNN1G	6340 PharmGKB	amiloride amiloride	AMILORIDE	chembl:CHEMBL945	10.23
SCTR	6344 GuideToPharmac	agonist 135651884 SECRETIN	SECRETIN	chembl:CHEMBL3039582	42.43
SDC1	6382 TTD	CAR138 T<C<CAR138 T Cells			
SDC2	6383 NCI	HEPARAN SHEPARAN SULFATE			
SDF4	51150 NCI	ETHANOL ETHANOL	ALCOHOL	chembl:CHEMBL545	1.48
SDHB	6390 NCI	ANTIBIOTICANTIBIOTIC	ANTIBIOTIC	chembl:CHEMBL606111	4.24
SDS	10993 NCI	DEXAMETHDEXAMETHASONE	DEXAMETHASONE	chembl:CHEMBL384467	1.52
SELE	6401 PharmGKB	leucovorin leucovorin	LEUCOVORIN	chembl:CHEMBL1679	0.57
SELL	6402 TdgClinicalTrial	GMI-1070 GMI-1070	RIVIPANSEL	chembl:CHEMBL3707446	28.29
SELP	6403 TdgClinicalTrial	YSPSL YSPSL	TORAPSEL	chembl:CHEMBL2108056	9.09
SELPLG	6404 TTD	RO-4905417 RO-4905417	INCLACUMAB	chembl:CHEMBL2109488	15.91
SEM1	7979 ChemblInteractio	inhibitor CHEMBL35<IXAZOMIB CITRATE	IXAZOMIB CITRATE	chembl:CHEMBL3545432	0.42
SEMA3C	10512 PharmGKB	irinotecan irinotecan	IRINOTECAN	chembl:CHEMBL481	2.4
SEMA4D	10507 GuideToPharmac	antibody 310264713 PEPINEMAB	PEPINEMAB	chembl:CHEMBL4297884	63.65
SENP1	29843 DTC	DNDI141788DNDI1417884	CHEMBL1346025	chembl:CHEMBL1346025	7.07
SENP2	59343 DTC	N-ETHYLM<N-ETHYLM<MALEIMIDE	N-ETHYLM<MALEIMIDE	chembl:CHEMBL8211	25.46
SENP3	26168 PharmGKB	methylphenidmethylphenidate	METHYLPHENIDATE	chembl:CHEMBL796	2.83

SENP6	26054 DTC	GNF-PF-170;GNF-PF-1702	CHEMBL600313	chembl:CHEMBL600313	0.47
SENP7	57337 DTC	DIHYDROX.DIHYDROXANTHOTHUMOL	DIHYDROXANTHOTHUMOL	chembl:CHEMBL510279	0.57
SENP8	123228 DTC	DNDI141715DNDI1417156	CHEMBL1504679	chembl:CHEMBL1504679	0.24
SERPINA1	5265 TTD	Alpha1-prote Alpha1-proteinase inhibitor (human) modified process			
SERPINA3	12 PharmGKB	antineoplasticantineoplastic agents			
SERPINA5	5104 PharmGKB	gemcitabine gemcitabine	GEMCITABINE	chembl:CHEMBL888	0.39
SERPINA6	866 TEND	RIMEXOLO;RIMEXOLONE	RIMEXOLONE	chembl:CHEMBL1200617	2.12
SERPINB2	5055 TdgClinicalTrial	UROKINASIUROKINASE	UROKINASE	chembl:CHEMBL1201420	63.65
SERPINB3	6317 NCI	GONADOTRGONADOTROPINS			
SERPINC1	462 TTD	UnfractionateUnfractionated heparin			
SERPIND1	3053 TdgClinicalTrial	ARDEPARINARDEPARIN			
SERPINE1	5054 NCI	9-CIS RETIN9-CIS RETINOIC ACID			
SERPINF1	5176 TTD	AdPEDR AdPEDR			
SERPING1	710 TTD	Rhucin Rhucin	RHUCIN	wikidata:Q29006438	15.91
SERPINH1	871 NCI	ANTISENSEANTISENSE OLIGONUCLEOTIDES			
SETBP1	26040 JAX-CKB	N/A N/A			
SETD2	29072 TTD	Cyclic octapeCyclic octapeptide derivative 1			
SETD4	54093 PharmGKB	daunorubicin daunorubicin	DAUNORUBICIN	chembl:CHEMBL178	0.99
SETD7	80854 GuideToPharmac inhibitor	249565915 (R)-PFI-2			
SF3B1	23451 JAX-CKB	N/A N/A			
SF3B2	10992 DTC	SPLICEOST;SPLICEOSTATIN-A	CHEMBL1221944	chembl:CHEMBL1221944	42.43
SF3B3	23450 DTC	PLADIENOLPLADIENOLIDE B	PLADIENOLIDE B	chembl:CHEMBL1242745	63.65
SFN	2810 DTC	IMATINIB IMATINIB	IMATINIB	chembl:CHEMBL941	1.99
SFRP5	6425 PharmGKB	Bisphosphon;Bisphosphonates			
SFTPA1	653509 NCI	IL-1RA IL-1RA	ANAKINRA	chembl:CHEMBL1201570	1.99
SFTPB	6439 NCI	STZ STZ	STREPTOZOCIN	chembl:CHEMBL1651906	2.77
SGCA	6442 TTD	rAAV1.tMChrAAV1.tMCK.human-alpha-sarcoglycan			
SGK1	6446 CIViC	ALPELISIB ALPELISIB	ALPELISIB	chembl:CHEMBL2396661	1.29
SGK2	10110 GuideToPharmac inhibitor	328083523 COMPOUND 14N [PMID: 25589934]			
SGK3	23678 GuideToPharmac inhibitor	328083523 COMPOUND 14N [PMID: 25589934]			
SGMS1	259230 GuideToPharmac inhibitor	252827492 COMPOUND 1J [PMID: 26314925]			
SGMS2	166929 GuideToPharmac inhibitor	375973242 SPHINGOMYELIN SYNTHASE 2 INHIBITOR 15W			
SGPL1	8879 GuideToPharmac inhibitor	252166675 COMPOUND 31 [PMID: 24809814]			
SGSH	6448 TTD	HGT-1410 HGT-1410	N-SULFOGLUCOSAMINE SULFO	chembl:CHEMBL4297976	63.65
SGSM3	27352 TTD	Demecolcine Demecolcine	DEMECOLCINE	chembl:CHEMBL312862	10.61
SH2B1	25970 PharmGKB	lithium lithium	LITHIUM	chembl:CHEMBL2146126	0.31
SH2B3	10019 PharmGKB	candesartan candesartan	CANDESARTAN	chembl:CHEMBL1016	14.14
SH2D1A	4068 PharmGKB	emapalumab emapalumab	EMAPALUMAB	chembl:CHEMBL3989977	15.91
SH2D5	400745 PharmGKB	gemcitabine gemcitabine	GEMCITABINE	chembl:CHEMBL888	1.57
SHBG	6462 NCI	ENZYME INENZYME INHIBITOR			
SHH	6469 NCI	RETINOIC ARETINOIC ACID			
SHMT1	6470 PharmGKB	fluorouracil fluorouracil	FLUOROURACIL	chembl:CHEMBL185	0.24

SI	6476 NCI	DEXAMETHDEXAMETHASONE	DEXAMETHASONE	chembl:CHEMBL384467	0.3
SLAH1	6477 TdgClinicalTrial	OMIGAPIL OMIGAPIL	OMIGAPIL	chembl:CHEMBL1232111	31.83
SIGIRR	59307 GuideToPharmac	agonist 178102770 IL-37			
SIGMAR1	10280 GuideToPharmac	antagonist 178103764 FLUVOXAMINE	FLUVOXAMINE	chembl:CHEMBL814	0.45
SIK1	150094 GuideToPharmac	inhibitor 249565818 COMPOUND 2C [PMID: 24900538]			
SIK2	23235 GuideToPharmac	inhibitor 340590212 ARN-3236			
SIK3	23387 GuideToPharmac	inhibitor 178102336 BOSUTINIB	BOSUTINIB	chembl:CHEMBL288441	1.68
SIRT1	23411 GuideToPharmac	inhibitor 249565780 SELISISTAT			
SIRT2	22933 TTD	ZINC915379 ZINC915379			
SIRT3	23410 DTC	SURAMIN SURAMIN	SURAMIN	chembl:CHEMBL265502	1.12
SIRT5	23408 DTC	GNF-PF-172(GNF-PF-1720	CHEMBL578329	chembl:CHEMBL578329	10.61
SIRT6	51548 GuideToPharmac	inhibitor 252827474 AKK(THIOAC)LM21			
SLAMF1	6504 NCI	METHOTREMETHOTREXATE	METHOTREXATE	chembl:CHEMBL34259	1.18
SLAMF6	114836 NCI	INTERLEUKINTERLEUKIN-4			
SLAMF7	57823 ChemblInteractio	inhibitor CHEMBL17-ELOTUZUMAB	ELOTUZUMAB	chembl:CHEMBL1743010	318.26
SLC10A1	6554 TTD	LUM001 LUM001			
SLC10A2	6555 GuideToPharmac	inhibitor 178103143 264W94			
SLC11A1	6556 NCI	COBALT COBALT			
SLC11A2	4891 GuideToPharmac	inhibitor 252827472 COMPOUND 6B [PMID: 22749870]			
SLC12A1	6557 TTD	ChlorthalidorChlorthalidone	CHLORTHALIDONE	chembl:CHEMBL1055	3.18
SLC12A2	6558 TdgClinicalTrial	BUMETANIIBUMETANIDE	BUMETANIDE	chembl:CHEMBL1072	12.12
SLC12A3	6559 ChemblInteractio	inhibitor CHEMBL43:HYDROCHLOROTHIAZIDIHYDROCHLOROTHIAZIDE		chembl:CHEMBL435	1.08
SLC12A4	6560 GuideToPharmac	inhibitor 178101310 DIOA			
SLC12A5	57468 TdgClinicalTrial	BUMETANIIBUMETANIDE	BUMETANIDE	chembl:CHEMBL1072	13.64
SLC12A6	9990 GuideToPharmac	inhibitor 178101310 DIOA			
SLC12A7	10723 GuideToPharmac	inhibitor 178101310 DIOA			
SLC12A8	84561 PharmGKB	Tumor necrosTumor necrosis factor alpha (TNF-alpha) inhibitors			
SLC14A1	6563 GuideToPharmac	inhibitor 252827538 COMPOUND 1A [PMID: 23597791]			
SLC14A2	8170 PharmGKB	nifedipine nifedipine	NIFEDIPINE	chembl:CHEMBL193	2.4
SLC15A1	6564 GuideToPharmac	inhibitor 178101226 LYS[Z(NO2)]-PRO			
SLC15A2	6565 GuideToPharmacology	178101375 [3H]GLYSAR			
SLC15A3	51296 GuideToPharmacology	178101341 [14C]HISTIDINE			
SLC15A4	121260 GuideToPharmacology	178101385 [3H]HISTIDINE			
SLC16A1	6566 NCI	BUTYRATE BUTYRATE			
SLC16A3	9123 NCI	STZ STZ	STREPTOZOCIN	chembl:CHEMBL1651906	2.77
SLC16A5	9121 PharmGKB	cisplatin cisplatin	CISPLATIN	chembl:CHEMBL11359	0.88
SLC16A7	9194 GuideToPharmac	inhibitor 404859052 AZD3965			
SLC17A9	63910 GuideToPharmac	inhibitor 340590235 CLODRONIC ACID			
SLC18A1	6570 GuideToPharmac	inhibitor 178101536 TETRABENAZINE	TETRABENAZINE	chembl:CHEMBL117785	3.98
SLC18A2	6571 ChemblInteractio	inhibitor CHEMBL12(LISDEXAMFETAMINE DIMLISDEXAMFETAMINE DIMESYL	chembl:CHEMBL1201178		1.59
SLC18A3	6572 GuideToPharmac	inhibitor 178101477 AMINOBENZOVESAMICOL			
SLC19A1	6573 TTD	Folic Acid Folic Acid			

SLC19A2	10560 GuideToPharmacology	178101346 [3H]THIAMINE				
SLC19A3	80704 GuideToPharmacology	178101346 [3H]THIAMINE				
SLC1A1	6505 NCI	CLOZAPINE	CLOZAPINE	CLOZAPINE	chembl:CHEMBL42	0.3
SLC1A2	6506 GuideToPharmac inhibitor	178101134 SYM2081				
SLC1A3	6507 GuideToPharmacology	178101410 [3H]D-ASPARTIC ACID				
SLC1A5	6510 GuideToPharmac inhibitor	178101229 BENZYL CYSTEINE	BENZYL CYSTEINE		chembl:CHEMBL63130	31.83
SLC1A6	6511 GuideToPharmac inhibitor	178101294 THREO-3-METHYLGLUTAMATE				
SLC1A7	6512 GuideToPharmacology	178101255 [3H]L-ASPARTIC ACID				
SLC22A1	6580 DTC	TETRYLAM	TETRYLAMMONIUM	TETRYLAMMONIUM	chembl:CHEMBL9324	8.49
SLC22A11	55867 GuideToPharmac inhibitor	252827456 CEPHALOTHIN	CEPHALOTHIN		chembl:CHEMBL617	1.59
SLC22A12	116085 TTD	Sulfonamide	Sulfonamide derivative 11			
SLC22A16	85413 PharmGKB	cyclophosphacyclophosphamide		CYCLOPHOSPHAMIDE	chembl:CHEMBL88	0.81
SLC22A2	6582 DTC	CIMETIDINE	CIMETIDINE		chembl:CHEMBL30	1.63
SLC22A3	6581 PharmGKB	catecholamin	catecholamines			
SLC22A4	6583 PharmGKB	imatinib	imatinib	IMATINIB	chembl:CHEMBL941	2.98
SLC22A5	6584 TdgClinicalTrial	PROPIONYL	PROPIONYL-L-CARNITINE			
SLC22A6	9356 PharmGKB	hmg coa reductase inhibitors				
SLC22A7	10864 PharmGKB	capecitabine	capecitabine	CAPECITABINE	chembl:CHEMBL1773	1.18
SLC22A8	9376 TTD	Bupropion+z	Bupropion+zonisamide			
SLC22A9	114571 PharmGKB	methotrexate	methotrexate	METHOTREXATE	chembl:CHEMBL34259	1.18
SLC23A1	9963 TTD	Vitamin C	Vitamin C			
SLC23A2	9962 TTD	Vitamin C	Vitamin C			
SLC25A1	6576 GuideToPharmac inhibitor	178101413 1,2,3-BENZENETRICARBOXYLIC ACID				
SLC25A20	788 TdgClinicalTrial	PROPIONYL	PROPIONYL-L-CARNITINE			
SLC25A29	123096 TdgClinicalTrial	PROPIONYL	PROPIONYL-L-CARNITINE			
SLC25A31	83447 PharmGKB	metoprolol	metoprolol	METOPROLOL	chembl:CHEMBL13	2.65
SLC25A4	291 TTD	Clodronate	Clodronate	CLODRONIC ACID	chembl:CHEMBL12318	25.46
SLC25A5	292 TdgClinicalTrial	CLODRONACLODRONATE		CLODRONIC ACID	chembl:CHEMBL12318	12.73
SLC25A6	293 TdgClinicalTrial	CLODRONACLODRONATE		CLODRONIC ACID	chembl:CHEMBL12318	12.73
SLC26A8	116369 PharmGKB	adefovir dipiv	adefovir dipivoxil			
SLC26A9	115019 PharmGKB	ivacaftor	ivacaftor	IVACAFTOR	chembl:CHEMBL2010601	31.83
SLC27A1	376497 GuideToPharmac inhibitor	252827459 COMPOUND 5K [PMID: 23528296]				
SLC27A4	10999 GuideToPharmac inhibitor	252827468 COMPOUND 1L [PMID: 16644217]				
SLC28A1	9154 PharmGKB	gemcitabine	gemcitabine	GEMCITABINE	chembl:CHEMBL888	0.63
SLC28A2	9153 DTC	ADENOSINE	ADENOSINE	ADENOSINE	chembl:CHEMBL477	1.93
SLC28A3	64078 DTC	URIDINE	URIDINE	URIDINE	chembl:CHEMBL100259	2.65
SLC29A1	2030 PharmGKB	gemcitabine	gemcitabine	GEMCITABINE	chembl:CHEMBL888	0.34
SLC29A2	3177 PharmGKB	gemcitabine	gemcitabine	GEMCITABINE	chembl:CHEMBL888	0.52
SLC29A3	55315 PharmGKB	gemcitabine	gemcitabine	GEMCITABINE	chembl:CHEMBL888	0.79
SLC29A4	222962 GuideToPharmac inhibitor	135652709 QUININE	QUININE	QUININE	chembl:CHEMBL170	0.64
SLC2A1	6513 NCI	TCDD	TCDD			
SLC2A2	6514 GuideToPharmacology	178101360 [3H]2-DEOXYGLUCOSE				

SLC2A3	6515 DTC	RESVERATRESVERATROL	RESVERATROL	chembl:CHEMBL165	0.88
SLC2A4	6517 NCI	HYDROGENHYDROGEN PEROXIDE			
SLC2A5	6518 NCI	STREPTOZCSTREPTOZOTOCIN	STREPTOZOCIN	chembl:CHEMBL1651906	1.38
SLC30A8	169026 PharmGKB	repaglinide repaglinide	REPAGLINIDE	chembl:CHEMBL1272	8.49
SLC30A9	10463 PharmGKB	aspirin aspirin	ASPIRIN	chembl:CHEMBL25	0.87
SLC31A1	1317 PharmGKB	cisplatin cisplatin	CISPLATIN	chembl:CHEMBL11359	0.66
SLC32A1	140679 GuideToPharmac inhibitor	178101523 VIGABATRIN	VIGABATRIN	chembl:CHEMBL89598	21.22
SLC33A1	9197 GuideToPharmacology	178101262 [14C]ACETYLCOA			
SLC34A2	10568 GuideToPharmac antibody	252166615 LIFASTUZUMAB VEDOTIN			
SLC36A1	206358 GuideToPharmac inhibitor	135651515 L-TRYPTOPHAN	TRYPTOPHAN	chembl:CHEMBL54976	2.65
SLC36A2	153201 GuideToPharmac inhibitor	178101406 A-METHYL-D,L-TRYPTOPHAN			
SLC38A1	81539 GuideToPharmacology	178101263 [14C]ALANINE			
SLC38A2	54407 GuideToPharmacology	178101264 [3H]ALANINE			
SLC38A3	10991 GuideToPharmacology	178101351 [14C]GLUTAMINE			
SLC38A4	55089 GuideToPharmacology	178101263 [14C]ALANINE			
SLC38A5	92745 GuideToPharmacology	178101385 [3H]HISTIDINE			
SLC39A14	23516 PharmGKB	nortriptyline nortriptyline	NORTRIPTYLINE	chembl:CHEMBL445	10.61
SLC39A6	25800 TTD	SGN LIV1A SGN LIV1A			
SLC39A8	64116 PharmGKB	ethanol ethanol	ALCOHOL	chembl:CHEMBL545	1.48
SLC3A2	6520 TTD	IGN523 IGN523			
SLC40A1	30061 TTD	Ferroportin rFerroportin mab			
SLC44A1	23446 GuideToPharmac inhibitor	178101222 HEMICHOLINIUM-3	HEMICHOLINIUM-3	chembl:CHEMBL268697	15.91
SLC44A4	80736 TTD	ASG-5ME ASG-5ME	ASG-5ME	chembl:CHEMBL2109574	63.65
SLC46A1	113235 GuideToPharmacology	178103302 [3H]FOLINIC ACID			
SLC47A1	55244 PharmGKB	metformin metformin	METFORMIN	chembl:CHEMBL1431	3.77
SLC47A2	146802 GuideToPharmacology	178101296 [14C]TEA			
SLC4A1	6521 PharmGKB	metoprolol metoprolol	METOPROLOL	chembl:CHEMBL13	3.98
SLC4A8	9498 PharmGKB	ethanol ethanol	ALCOHOL	chembl:CHEMBL545	1.48
SLC5A1	6523 TTD	LIK-066 LIK-066	LICOGLIFLOZIN	chembl:CHEMBL4297625	3.26
SLC5A11	115584 GuideToPharmac inhibitor	178101467 PHLORIZIN	PHLORIZIN	chembl:CHEMBL245067	31.83
SLC5A2	6524 TdgClinicalTrial	BI-10773 BI-10773	EMPAGLIFLOZIN	chembl:CHEMBL2107830	5.66
SLC5A3	6526 GuideToPharmac inhibitor	178101467 PHLORIZIN	PHLORIZIN	chembl:CHEMBL245067	31.83
SLC5A4	6527 TTD	DapagliflozinDapagliflozin	DAPAGLIFLOZIN	chembl:CHEMBL429910	2.36
SLC5A5	6528 TTD	Ad5CMV-NIAd5CMV-NIS			
SLC5A6	8884 TTD	Gabapentin eGabapentin enacarbil			
SLC5A7	60482 DTC	(S)-ONDANSE(S)-ONDANSETRON	(S)-ONDANSETRON	chembl:CHEMBL399705	1.1
SLC5A8	160728 GuideToPharmac inhibitor	135650365 IBUPROFEN	IBUPROFEN	chembl:CHEMBL521	0.62
SLC6A1	6529 ChemblInteractio inhibitor	CHEMBL166TIAGABINE HYDROCHLO TIAGABINE HYDROCHLORIDE		chembl:CHEMBL1695	12.73
SLC6A11	6538 TTD	GSK683699 GSK683699			
SLC6A12	6539 GuideToPharmac inhibitor	178103126 (R)-EF-1520			
SLC6A14	11254 GuideToPharmac inhibitor	178101406 A-METHYL-D,L-TRYPTOPHAN			
SLC6A15	55117 GuideToPharmac inhibitor	178103791 LORATADINE	LORATADINE	chembl:CHEMBL998	11.93

SLC6A19	340024 GuideToPharmac	inhibitor	223365936 BENZATROPINE	BENZATROPINE	wikidata:Q415026	31.83
SLC6A2	6530 TEND		MAPROTILIMAPROTILINE	MAPROTILINE	chembl:CHEMBL21731	0.87
SLC6A3	6531 GuideToPharmac	inhibitor	178103890 TRIMIPRAMINE	TRIMIPRAMINE	chembl:CHEMBL644	0.27
SLC6A4	6532 TdgClinicalTrial		DULOXETINDULOXETINE	DULOXETINE	chembl:CHEMBL1175	0.92
SLC6A5	9152 GuideToPharmac	inhibitor	178101476 ALX 1405			
SLC6A7	6534 GuideToPharmac	inhibitor	178101297 LP-403812			
SLC6A9	6536 TTD		GlyT1 PET r;GlyT1 PET radiotracers			
SLC7A11	23657 TdgClinicalTrial		RILUZOLE RILUZOLE	RILUZOLE	chembl:CHEMBL744	8.3
SLC7A5	8140 GuideToPharmac	inhibitor	328083449 KYT-0353			
SLC8A3	6547 GuideToPharmac	inhibitor	329968424 YM-244769			
SLC9A1	6548 DTC		CARIPORID CARIPORIDE	CARIPORIDE	chembl:CHEMBL436559	63.65
SLC9A3	6550 NCI		GLUCOCORGLUCOCORTICOID			
SLC9A5	6553 GuideToPharmac	inhibitor	135649936 AMILORIDE	AMILORIDE	chembl:CHEMBL945	4.55
SLCO1A2	6579 NCI		TESTOSTERTESTOSTERONE	TESTOSTERONE	chembl:CHEMBL386630	0.51
SLCO1B1	10599 FDA		Rosuvastatin Rosuvastatin	ROSUVASTATIN	chembl:CHEMBL1496	0.09
SLCO1B3	28234 PharmGKB		hmg coa reduhmg coa reductase inhibitors			
SLCO1C1	53919 GuideToPharmac	inhibitor	178101174 PROBENECID	PROBENECID	chembl:CHEMBL897	1.99
SLCO2A1	6578 PharmGKB		Thiazides, pl;Thiazides, plain			
SLCO2B1	11309 GuideToPharmac	inhibitor	178101619 ERLOTINIB	ERLOTINIB	chembl:CHEMBL553	0.06
SLCO3A1	28232 GuideToPharmacology		178101458 [3H]ESTRONE-3-SULPHATE			
SLCO4A1	28231 GuideToPharmacology		178101458 [3H]ESTRONE-3-SULPHATE			
SLCO4C1	353189 GuideToPharmacology		178101436 [3H]DIGOXIN			
SLFN11	91607 CIViC		TALAZOPAITALAZOPARIB	TALAZOPARIB	chembl:CHEMBL3137320	3.86
SLIT1	6585 PharmGKB		hydrochlorotlhydrochlorothiazide	HYDROCHLOROTHIAZIDE	chembl:CHEMBL435	0.88
SLITRK6	84189 TTD		ASG-15ME ASG-15ME			
SLK	9748 DTC		ALISERTIB ALISERTIB	ALISERTIB	chembl:CHEMBL483158	0.05
SLPI	6590 NCI		HEPARIN HEPARIN	HEPARIN	chembl:CHEMBL1909300	6.58
SMAD2	4087 DTC		GERANIIN GERANIIN	GERANIIN	chembl:CHEMBL506069	14.14
SMAD3	4088 DTC		GNF-PF-129;GNF-PF-1295	CHEMBL579837	chembl:CHEMBL579837	0.05
SMAD4	4089 JAX-CKB		Sapanisertib Sapanisertib	SAPANISERTIB	chembl:CHEMBL3545097	0.46
SMAD7	4092 TTD		GED-0301 GED-0301	MONGERSEN SODIUM	chembl:CHEMBL3707383	31.83
SMARCA2	6595 DTC		GNF-PF-373(GNF-PF-3736	CHEMBL583824	chembl:CHEMBL583824	5.3
SMARCA4	6597 GuideToPharmac	inhibitor	249565598 PFI-3			
SMARCB1	6598 JAX-CKB		radiotherapy radiotherapy			
SMG1	23049 TTD		ApoC-III ApoC-III			
SMN1	6606 DTC		GNF-PF-350 GNF-PF-3501	CHEMBL581910	chembl:CHEMBL581910	0.08
SMN2	6607 DTC		APIGENIN APIGENIN	APIGENIN	chembl:CHEMBL28	0.02
SMO	6608 GuideToPharmac	antagonist	178103554 VISMODEGIB	VISMODEGIB	chembl:CHEMBL473417	29.38
SMOX	54498 NCI		DFMO DFMO			
SMPD1	6609 GuideToPharmac	inhibitor	404859087 COMPOUND 21B [PMID: 31944697]			
SMS	6611 TTD		2-hydroxyole 2-hydroxyoleic acid			
SMTN	6525 NCI		TRANSFORITRANSFORMING GROWTH FACTOR			

SMYD2	56950 GuideToPharmac	inhibitor	178103600 AZ505			
SNAP25	6616 TdgClinicalTrial		BOTULINUMBOTULINUM TOXIN TYPE A			
SNCA	6622 DTC		ALTENUSINALTENUSIN	ALTENUSIN	chembl:CHEMBL483531	0.21
SNORD68	606500 PharmGKB		docetaxel docetaxel	DOCETAXEL	chembl:CHEMBL92	0.81
SNW1	22938 NCI		TRANSFORITRANSFORMING GROWTH FACTOR			
SOAT1	6646 NCI		NIFEDIPINE NIFEDIPINE	NIFEDIPINE	chembl:CHEMBL193	0.72
SOCS1	8651 NCI		INSULIN INSULIN	INSULIN	chembl:CHEMBL1201631	1.25
SOCS3	9021 NCI		ANTISENSE ANTISENSE OLIGONUCLEOTIDES			
SOCS6	9306 NCI		INSULIN INSULIN	INSULIN	chembl:CHEMBL1201631	2.5
SOD1	6647 DTC		OXYTETRA OXYTETRACYCLINE	OXYTETRACYCLINE	chembl:CHEMBL1517	0.88
SOD2	6648 PharmGKB		cyclophosphacyclophosphamide	CYCLOPHOSPHAMIDE	chembl:CHEMBL88	0.16
SORCS2	57537 PharmGKB		atazanavir atazanavir	ATAZANAVIR	chembl:CHEMBL1163	14.14
SOS1	6654 GuideToPharmacology		385612239 BAY-293			
SOST	50964 TTD		LY2541546 LY2541546			
SOX10	6663 PharmGKB		paclitaxel paclitaxel	PACLITAXEL	chembl:CHEMBL428647	0.33
SP1	6667 TTD		Terameproco Terameprocol	TERAMEPROCOL	chembl:CHEMBL90983	31.83
SP3	6670 NCI		DOXORUBIN DOXORUBICIN	DOXORUBICIN	chembl:CHEMBL53463	1.35
SP7	121340 NCI		ASCORBIC ASCORBIC ACID			
SPARC	6678 ClarityFoundationBiomar		NAB-PACLINAB-PACLITAXEL			
SPATA5	166378 PharmGKB		paclitaxel paclitaxel	PACLITAXEL	chembl:CHEMBL428647	1.31
SPECC1L	23384 PharmGKB		methotrexate methotrexate	METHOTREXATE	chembl:CHEMBL34259	1.18
SPECC1L-ADORA2A	101730217 DTC		CGS-21680 CGS-21680	CGS-21680	chembl:CHEMBL331372	42.43
SPG7	6687 PharmGKB		docetaxel docetaxel	DOCETAXEL	chembl:CHEMBL92	0.81
SPHK1	8877 TTD		PMID275396 PMID27539678-Compound-11			
SPHK2	56848 GuideToPharmac	inhibitor	404859088 SLM6071469			
SPINT1	6692 NCI		SURAMIN SURAMIN	SURAMIN	chembl:CHEMBL265502	3.35
SPOPL	339745 PharmGKB		olanzapine olanzapine	OLANZAPINE	chembl:CHEMBL715	0.94
SPP1	6696 NCI		SODIUM BUSODIUM BUTYRATE			
SPR	6697 ChemblInteractio	antagonist	CHEMBL147 APREPITANT	APREPITANT	chembl:CHEMBL1471	1.52
SPSB2	84727 DTC		PHENYLTHIAPHENYLTHIAZOL-2-AMIN	CHEMBL175296	chembl:CHEMBL175296	63.65
SPTBN1	6711 TTD		ABT-413 ABT-413			
SPTLC2	9517 GuideToPharmac	inhibitor	178103276 MYRIOCIN	MYRIOCIN	chembl:CHEMBL55076	31.83
SPTLC3	55304 GuideToPharmac	inhibitor	178103276 MYRIOCIN	MYRIOCIN	chembl:CHEMBL55076	31.83
SQLE	6713 GuideToPharmac	inhibitor	252827452 COMPOUND 1B [PMID: 9871762]			
SQSTM1	8878 TTD		IMX-942 IMX-942	DUSQUETIDE	chembl:CHEMBL3545314	63.65
SRC	6714 DTC		CEDIRANIB CEDIRANIB	CEDIRANIB	chembl:CHEMBL491473	0.07
SRD5A1	6715 TdgClinicalTrial		LEVONORGLEVONORGESTREL	LEVONORGESTREL	chembl:CHEMBL1389	16.97
SRD5A2	6716 TTD		Finasteride Finasteride	FINASTERIDE	chembl:CHEMBL710	26.93
SRD5A3	79644 ChemblInteractio	inhibitor	CHEMBL12(DUTASTERIDE	DUTASTERIDE	chembl:CHEMBL1200969	15.91
SREBF1	6720 PharmGKB		fluvastatin fluvastatin	FLUVASTATIN	chembl:CHEMBL2220442	1.52
SRGN	5552 NCI		HEPARIN HEPARIN	HEPARIN	chembl:CHEMBL1909300	4.39
SRI	6717 NCI		ADM ADM			

SRMS	6725 DTC	OSI-632	OSI-632	OSI-632	chembl:CHEMBL253969	0.19
SRP19	6728 PharmGKB	paroxetine	paroxetine	PAROXETINE	chembl:CHEMBL490	1.27
SRPK1	6732 DTC	TAE-684	TAE-684	TAE-684	chembl:CHEMBL509032	0.05
SRPK2	6733 GuideToPharmac	249565786	URMC-099			
SRPK3	26576 GuideToPharmac	249565802	COMPOUND 25 [PMID: 17935989]			
SRPRB	58477 PharmGKB	ethanol	ethanol	ALCOHOL	chembl:CHEMBL545	1.48
SRSF10	10772 TTD	Cynarin	Cynarin	CYNARIN	chembl:CHEMBL487258	63.65
SRSF2	6427 OncoKB	H3B-8800	H3B-8800			
SRY	6736 NCI	HORMONES	HORMONES			
SSRP1	6749 TTD	CBL0102	CBL0102			
SST	6750 NCI	ESTRADIOLESTRADIOL	BENZOATE			
SSTR1	6751 GuideToPharmac	135652502	[125I]CGP 23996			
SSTR2	6752 ChemblInteractio	CHEMBL21(VAPREOTIDE		VAPREOTIDE	chembl:CHEMBL2103975	3.74
SSTR3	6753 GuideToPharmac	135652571	[125I]TYR7-SST3-ODN-8			
SSTR4	6754 GuideToPharmac	135652578	[125I]TYR11-SRIF-14			
SSTR5	6755 GuideToPharmac	135652247	L-362,855			
ST13	6767 PharmGKB	corticosteroid	corticosteroids			
ST14	6768 TTD	US8569313,	US8569313, Inhibitor 14			
ST6GAL1	6480 PharmGKB	flucloxacillin	flucloxacillin	FLOXACILLIN	chembl:CHEMBL222645	18.19
STAB2	55576 NCI	ALBUMIN	ALBUMIN	ALBUMIN HUMAN	chembl:CHEMBL1201451	8.49
STAG2	10735 JAX-CKB	Trametinib	Trametinib	TRAMETINIB	chembl:CHEMBL2103875	0.38
STAG3	10734 CIViC	VEMURAFEVEMURAFENIB		VEMURAFENIB	chembl:CHEMBL1229517	4.24
STAR	6770 NCI	BDNF	BDNF			
STAT1	6772 TdgClinicalTrial	AVT-02 UE	AVT-02 UE			
STAT2	6773 NCI	13-CIS-RETI13-CIS-RETINOIC	ACID			
STAT3	6774 DTC	NICLOSAMIN	NICLOSAMIDE	NICLOSAMIDE	chembl:CHEMBL1448	0.1
STAT4	6775 NCI	IL-2	IL-2	ALDESLEUKIN	wikidata:Q20801763	2.45
STAT5A	6776 DTC	TOFACITIN	TOFACITINIB	TOFACITINIB	chembl:CHEMBL221959	10.61
STAT5B	6777 TEND	DASATINIB	DASATINIB	DASATINIB	chembl:CHEMBL1421	1.18
STAT6	6778 DTC	NSC-607097	NSC-607097	CHEMBL1374370	chembl:CHEMBL1374370	5.3
STEAP1	26872 TTD	RG7450	RG7450	VANDORTUZUMAB VEDOTIN	chembl:CHEMBL3833306	127.3
STIM2	57620 NCI	AMINOGLY	AMINOGLYCOSIDE	ANTIBIOTIC		
STING1	340061 GuideToPharmac	381118902	ADU-S100	ADU-S100	chembl:CHEMBL4297688	127.3
STK10	6793 GuideToPharmac	381118815	DDR1/2 INHIBITOR 5N			
STK11	6794 DoCM	EVEROLIM	EVEROLIMUS	EVEROLIMUS	chembl:CHEMBL1908360	0.28
STK16	8576 GuideToPharmac	249565890	COMPOUND 27 [PMID: 21123062]			
STK17A	9263 DTC	AZD-1080	AZD-1080	AZD-1080	chembl:CHEMBL1969664	0.2
STK24	8428 GuideToPharmac	178102336	BOSUTINIB	BOSUTINIB	chembl:CHEMBL288441	3.35
STK3	6788 DTC	SOTRASTA	SOTRASTAUIN	SOTRASTAUIN	chembl:CHEMBL565612	0.04
STK31	56164 GuideToPharmac	249565802	COMPOUND 25 [PMID: 17935989]			
STK32B	55351 GuideToPharmac	249565899	COMPOUND 74 [PMID: 24793884]			
STK33	65975 GuideToPharmac	249565870	COMPOUND 1 [PMID: 21742770]			

STK36	27148 DTC	SB-202190	SB-202190	SB-202190	chembl:CHEMBL278041	1.82
STK38	11329 GuideToPharmac	inhibitor	249565889	COMPOUND 35 [PMID: 20684608]		
STK38L	23012 GuideToPharmac	inhibitor	249565890	COMPOUND 27 [PMID: 21123062]		
STK39	27347 PharmGKB	losartan	losartan	LOSARTAN	chembl:CHEMBL191	14.14
STK4	6789 GuideToPharmac	inhibitor	252827426	COMPOUND 38 [PMID: 20817473]		
STMN1	3925 CIViC	PACLITAXE	PACLITAXEL	PACLITAXEL	chembl:CHEMBL428647	1.31
STN1	79991 PharmGKB	atenolol	atenolol	ATENOLOL	chembl:CHEMBL24	3.74
STRAP	11171 NCI	ADJUVANT	ADJUVANT			
STS	412 TTD	STX-140	STX-140			
STX11	8676 PharmGKB	emapalumab	emapalumab	EMAPALUMAB	chembl:CHEMBL3989977	15.91
STX1B	112755 PharmGKB	warfarin	warfarin	WARFARIN	chembl:CHEMBL1464	3.54
STX4	6810 PharmGKB	phenprocoum	phenprocoumon	PHENPROCOUMON	chembl:CHEMBL1465	9.09
STXBP2	6813 PharmGKB	emapalumab	emapalumab	EMAPALUMAB	chembl:CHEMBL3989977	15.91
SUCNR1	56670 GuideToPharmac	agonist	340590261	CIS-EPOXYSUCCINIC ACID		
SUFU	51684 CIViC	SONIDEGIB	SONIDEGIB	SONIDEGIB	chembl:CHEMBL2105737	25.46
SUGCT	79783 PharmGKB	hormonal	conhormonal	contraceptives for systemic use		
SULT1A1	6817 PharmGKB	acetaminophe	acetaminophen	ACETAMINOPHEN	chembl:CHEMBL112	2.04
SULT1A2	6799 NCI	STREPTOZC	STREPTOZOCIN	STREPTOZOCIN	chembl:CHEMBL1651906	2.77
SULT1A3	6818 PharmGKB	acetaminophe	acetaminophen	ACETAMINOPHEN	chembl:CHEMBL112	1.63
SULT1A4	445329 PharmGKB	morphine	morphine	MORPHINE	chembl:CHEMBL70	1.03
SULT1C3	442038 PharmGKB	candesartan	candesartan	CANDESARTAN	chembl:CHEMBL1016	14.14
SULT1C4	27233 PharmGKB	docetaxel	docetaxel	DOCETAXEL	chembl:CHEMBL92	0.81
SULT1E1	6783 PharmGKB	acetaminophe	acetaminophen	ACETAMINOPHEN	chembl:CHEMBL112	4.9
SULT2A1	6822 DTC	EMATE	EMATE	EMATE	chembl:CHEMBL122708	15.91
SULT2B1	6820 PharmGKB	cytarabine	cytarabine	CYTARABINE	chembl:CHEMBL803	0.99
SUMO1	7341 DTC	3,8'-BIAPIGE	3,8'-BIAPIGENIN	CHEMBL515252	chembl:CHEMBL515252	0.24
SUMO2	6613 DTC	BITHIONOL	BITHIONOLOXIDE	BITHIONOLOXIDE	chembl:CHEMBL1603949	4.55
SUMO4	387082 PharmGKB	tacrolimus	tacrolimus	TACROLIMUS	chembl:CHEMBL269732	3.74
SUV39H1	6839 GuideToPharmac	inhibitor	252166599	CHAETOCIN	chembl:CHEMBL1089316	31.83
SV2A	9900 TTD	Brivaracetam	Brivaracetam	BRIVARACETAM	chembl:CHEMBL607400	15.91
SV2C	22987 PharmGKB	olanzapine	olanzapine	OLANZAPINE	chembl:CHEMBL715	0.94
SYK	6850 GuideToPharmac	inhibitor	328083490	GSK143		
SYP	6855 NCI	DIMETHYL	DIMETHYL	SULFOXIDE		
SYT1	6857 PharmGKB	cocaine	cocaine	COCAINE	chembl:CHEMBL370805	6.06
SYT2	127833 TdgClinical	Trial	BOTULINUM	BOTULINUM TOXIN TYPE B		
TAAR1	134864 DTC	S-(2-CHLORS-	(2-CHLOROBENZYL)ISO	CHEMBL1224310	chembl:CHEMBL1224310	2.12
TAAR6	319100 PharmGKB	corticosteroid	corticosteroids			
TAB2	23118 PharmGKB	gefitinib	gefitinib	GEFITINIB	chembl:CHEMBL939	1.87
TAC1	6863 NCI	PUROMYCIN	PUROMYCIN	PUROMYCIN	chembl:CHEMBL469912	0.72
TAC3	6866 NCI	TRIIODOTH	TRIIODOTHYRONINE	LIOthyRONINE SODIUM	chembl:CHEMBL1201119	4.24
TACR1	6869 TTD	VESTIPITAN	VESTIPITANT	MESYLATE		
TACR2	6865 GuideToPharmac	agonist	135652015	[BALA8]NEUROKININ A-(4-10)		

TACR3	6870 GuideToPharmac	antagonist	135650800 PD157672				
TACSTD2	4070 GuideToPharmac	antibody	249565933 SACITUZUMAB GOVITECAN				
TAF1	6872 GuideToPharmac	inhibitor	336446910 BAY-299				
TAGLN	6876 NCI		5-AZACYTII5-AZACYTIDINE	AZACITIDINE	chembl:CHEMBL1489		3.74
TANC1	85461 PharmGKB		radiotherapy	radiotherapy			
TANC2	26115 PharmGKB		calcium chan	calcium channel blockers			
TAOK1	57551 DTC		PHA-767491 PHA-767491	CHEMBL225519	chembl:CHEMBL225519		0.03
TAOK3	51347 GuideToPharmac	inhibitor	249565794 COMPOUND 89S [PMID: 19115845]				
TAPBP	6892 PharmGKB		aspirin	aspirin	ASPIRIN	chembl:CHEMBL25	1.74
TARDBP	23435 DTC		1,7-O-DIACET	1,7-O-DIACETYLMETHYL	CHEMBL1889303	chembl:CHEMBL1889303	0.14
TAS2R16	50833 PharmGKB		ethanol	ethanol	ALCOHOL	chembl:CHEMBL545	0.74
TAS2R31	259290 GuideToPharmac	antagonist	315661196 6-METHOXYS	AKURANET	CHEMBL210692	chembl:CHEMBL210692	63.65
TASPI	55617 GuideToPharmac	inhibitor	252827510 YZM18				
TAT	6898 NCI		TETRACYCL	TETRACYCLINE	TETRACYCLINE	chembl:CHEMBL1440	0.94
TBC1D1	23216 PharmGKB		olanzapine	olanzapine	OLANZAPINE	chembl:CHEMBL715	0.94
TBC1D32	221322 PharmGKB		Bisphosphon	Bisphosphonates			
TBK1	29110 DTC		TAMATINI	TAMATINIB	R-406	chembl:CHEMBL475251	0.09
TBL1XR1	79718 PharmGKB		allopurinol	allopurinol	ALLOPURINOL	chembl:CHEMBL1467	4.39
TBP	6908 NCI		HORMONE	HORMONES			
TBX2	6909 PharmGKB		atenolol	atenolol	ATENOLOL	chembl:CHEMBL24	3.74
TBX21	30009 PharmGKB		corticosteroid	corticosteroids			
TBXA2R	6915 TTD		LAROPIPRAL	LAROPIPRANT	LAROPIPRANT	chembl:CHEMBL426559	0.43
TBXAS1	6916 TdgClinicalTrial		NV-52	NV-52			
TBXT	6862 PharmGKB		flunisolide	flunisolide	FLUNISOLIDE	chembl:CHEMBL1512	6.37
TCF19	6941 PharmGKB		nevirapine	nevirapine	NEVIRAPINE	chembl:CHEMBL57	5.53
TCF7L2	6934 PharmGKB		sulfonamides	sulfonamides, urea derivatives			
TCIM	56892 NCI		ANTIANGIC	ANTIANGIOGENIC			
TCN1	6947 NCI		CYANOCO	CYANOCOBALAMIN	CYANOCOBALAMIN	chembl:CHEMBL2110563	42.43
TDGF1	6997 TTD		BIIB 015	BIIB 015			
TDO2	6999 NCI		DEXAMETH	DEXAMETHASONE	DEXAMETHASONE	chembl:CHEMBL384467	0.51
TDP1	55775 DTC		FUMARPRO	FUMARPROTOCETRARIC	FUMARPROTOCETRARIC ACID	chembl:CHEMBL366861	0.09
TDP2	51567 DTC		9,10-PHEN	9,10-PHENANTHRENEQUIN	9,10-PHENANTHRENEQUINONE	chembl:CHEMBL51931	0.82
TEAD1	7003 NCI		DEXAMETH	DEXAMETHASONE	DEXAMETHASONE	chembl:CHEMBL384467	1.52
TEC	7006 GuideToPharmac	inhibitor	318164804 PRN694				
TEK	7010 ChemblInteractio	inhibitor	CHEMBL35	CE-245677	CE-245677	chembl:CHEMBL3545120	3.54
TENT4A	11044 PharmGKB		gemcitabine	gemcitabine	GEMCITABINE	chembl:CHEMBL888	1.57
TEP1	7011 TdgClinicalTrial		V934/V935	V934/V935			
TERC	7012 NCI		AZIDOTHY	AZIDOTHYIMIDINE	ZIDOVUDINE	chembl:CHEMBL129	2.05
TERT	7015 TTD		KML-001	KML-001			
TESK1	7016 GuideToPharmac	inhibitor	249565797 COMPOUND 31 [PMID: 22902653]				
TESK2	10420 GuideToPharmac	inhibitor	249565798 COMPOUND 30 [PMID: 22902653]				
TET2	54790 JAX-CKB		Azacitidine	Azacitidine	AZACITIDINE	chembl:CHEMBL1489	1.87

TEX10	54881 PharmGKB	duloxetine	duloxetine	DULOXETINE	chembl:CHEMBL1175	6.37
TF	7018 PharmGKB	adalimumab	adalimumab	ADALIMUMAB	chembl:CHEMBL1201580	3.74
TFAP2A	7020 NCI	HORMONES	HORMONES			
TFF1	7031 TTD	AG-013	AG-013			
TFF2	7032 NCI	HORMONES	HORMONES			
TFF3	7033 CIViC	TAMOXIFEN	TAMOXIFEN	TAMOXIFEN	chembl:CHEMBL83	1.08
TFPI	7035 NCI	PI-88	PI-88	MUPARFOSTAT	chembl:CHEMBL4297163	1.27
TFPI2	7980 NCI	HEPARIN	HEPARIN	HEPARIN	chembl:CHEMBL1909300	4.39
TG	7038 NCI	RETINOIDS	RETINOIDS			
TGFA	7039 PharmGKB	panitumumab	panitumumab	PANITUMUMAB	chembl:CHEMBL1201827	1.52
TGFB1	7040 TTD	Disitertide	Disitertide	DISITER TIDE	chembl:CHEMBL2108346	3.44
TGFB2	7042 TTD	FANG vaccir	FANG vaccine			
TGFB3	7043 TALC	antibody	FRESOLIMU	FRESOLIMUMAB	chembl:CHEMBL1743022	21.22
TGFBR1	7046 GuideToPharmac	inhibitor	249565800 COMPOUND 13D [PMID: 23639540]			
TGFBR2	7048 GuideToPharmac	agonist	178101755 TGFB3			
TGFBR3	7049 NCI	CYTOKINES	CYTOKINES			
TGM2	7052 NCI	DEFEROXA	DEFEROXAMINE	DEFEROXAMINE	chembl:CHEMBL556	0.43
TH	7054 TTD	L-Phenylalan	L-Phenylalanine	PHENYLALANINE	chembl:CHEMBL301523	7.96
THBD	7056 NCI	SIMVASTA	SIMVASTATIN	SIMVASTATIN	chembl:CHEMBL1064	0.47
THBS1	7057 NCI	5-AZA-2&A15-AZA-2&APOS;-DEOXYCYTIDINE				
THBS2	7058 NCI	BEVACIZUM	BEVACIZUMAB	BEVACIZUMAB	chembl:CHEMBL1201583	4.11
THBS4	7060 NCI	VASOPRES	VASOPRESSIN	VASOPRESSIN	chembl:CHEMBL373742	7.49
THOP1	7064 TTD	Karenitecin	Karenitecin	KARENITECIN	chembl:CHEMBL1743260	10.61
THPO	7066 DTC	SB-224289	SB-224289	SB-224289	chembl:CHEMBL281350	0.12
THRA	7067 TdgClinicalTrial	LEVOTHYR	LEVOTHYROXINE	LEVOTHYROXINE	chembl:CHEMBL1624	6.37
THRB	7068 DTC	LEVOTHYR	LEVOTHYROXINE	LEVOTHYROXINE	chembl:CHEMBL1624	0.58
THRSP	7069 NCI	ANTIOXIDA	ANTIOXIDANT			
THSD7B	80731 PharmGKB	ethanol	ethanol	ALCOHOL	chembl:CHEMBL545	1.48
THY1	7070 NCI	HEL	HEL			
TICAM1	148022 NCI	VACCINE	VACCINE			
TIE1	7075 GuideToPharmac	inhibitor	363894135 MERESTINIB	MERESTINIB	chembl:CHEMBL3545307	3.98
TIGIT	201633 TTD	ASP8374	ASP8374	ASP-8374	chembl:CHEMBL4297894	63.65
TIRAP	114609 PharmGKB	ustekinumab	ustekinumab	USTEKINUMAB	chembl:CHEMBL1201835	12.73
TJP1	7082 PharmGKB	risperidone	risperidone	RISPERIDONE	chembl:CHEMBL85	0.25
TK1	7083 PharmGKB	zidovudine	zidovudine	ZIDOVUDINE	chembl:CHEMBL129	0.68
TK2	7084 NCI	DDC	DDC	ZALCITABINE	chembl:CHEMBL853	31.83
TLE3	7090 ClarityFoundationBiomark	DOCETAXE	DOCETAXEL	DOCETAXEL	chembl:CHEMBL92	0.4
TLK2	11011 CIViC	GO6983	GO6983			
TLR2	7097 TTD	OM-174	OM-174			
TLR3	7098 TTD	Rintatolimod	Rintatolimod	RINTATOLIMOD	chembl:CHEMBL2107862	31.83
TLR4	7099 TTD	MPL-contain	MPL-containing Pollinex allergy desensitization vaccine			
TLR5	7100 PharmGKB	Tumor necros	Tumor necrosis factor alpha (TNF-alpha) inhibitors			

TLR6	10333 TTD	MALP-2S MALP-2S				
TLR7	51284 ChEMBLInteractio	agonist CHEMBL128	IMIQUIMOD	IMIQUIMOD	chembl:CHEMBL1282	22.99
TLR8	51311 GuideToPharmac	agonist 315661111	MOTOLIMOD	MOTOLIMOD	chembl:CHEMBL3301618	38.19
TLR9	54106 TTD	SD-101 SD-101				
TMEM167A	153339 PharmGKB	fluorouracil fluorouracil		FLUOROURACIL	chembl:CHEMBL185	1.21
TMEM97	27346 TTD	ANAVEX 10ANAVEX 1007				
TMPRSS11D	9407 GuideToPharmac	inhibitor 252166870	COMPOUND 5 [PMID: 21741839]			
TMPRSS15	5651 DTC	THONZONIITHONZONIUM BROMIDE	THONZONIUM BROMIDE		chembl:CHEMBL1200883	1.41
TMPRSS2	7113 GuideToPharmac	inhibitor 178103048	CAMOSTAT	CAMOSTAT	chembl:CHEMBL590799	21.22
TMPRSS6	164656 GuideToPharmac	inhibitor 252166825	INHIBITOR 1 [COLOMBO ET AL., 2012]			
TMSB10	9168 NCI	RETINOIDS RETINOIDS				
TMX2	51075 PharmGKB	ethanol ethanol		ALCOHOL	chembl:CHEMBL545	1.48
TNC	3371 ChEMBLInteractions	CHEMBL21(F16SIP	F16SIP 1311		chembl:CHEMBL2109584	12.73
TNF	7124 NCI	HYDROXYCHLOROQUINE	HYDROXYCHLOROQUINE		chembl:CHEMBL1535	0.17
TNFAIP1	7126 NCI	IL-2 IL-2		ALDESLEUKIN	wikidata:Q20801763	4.9
TNFAIP3	7128 PharmGKB	Tumor necrosis factor alpha (TNF-alpha) inhibitors				
TNFRSF10A	8797 TTD	Mapatumumab	MAPATUMUMAB		chembl:CHEMBL2108621	79.56
TNFRSF10B	8795 ChEMBLInteractio	agonist CHEMBL21(DULANERMIN	DULANERMIN		chembl:CHEMBL2107846	13.64
TNFRSF10C	8794 NCI	TRAIL TRAIL				
TNFRSF11A	8792 PharmGKB	Pyrazolones Pyrazolones				
TNFRSF11B	4982 NCI	EPINEPHRINE	EPINEPHRINE		chembl:CHEMBL679	0.85
TNFRSF12A	51330 TTD	Enavatuzumab	ENAVATUZUMAB		chembl:CHEMBL1743011	127.3
TNFRSF13B	23495 TdgClinicalTrial	LYMPHORAD				
TNFRSF13C	115650 GuideToPharmacology	178101762	BAFF	ARDENERMIN	chembl:CHEMBL2108180	21.22
TNFRSF14	8764 GuideToPharmacology	178101757	LYMPHOTOXIN-A			
TNFRSF17	608 TTD	BCMA-CAR	BCMA-CART			
TNFRSF18	8784 GuideToPharmacology	178101765	TL6			
TNFRSF1A	7132 NCI	UVB UVB				
TNFRSF1B	7133 NCI	CARBAMAZEPINE	CARBAMAZEPINE		chembl:CHEMBL108	0.45
TNFRSF25	8718 GuideToPharmacology	178101764	TL1A			
TNFRSF4	7293 TTD	PF-04518600	PF-04518600	IVUXOLIMAB	chembl:CHEMBL4297883	21.22
TNFRSF8	943 NCI	VITAMIN A	VITAMIN A			
TNFRSF9	3604 TTD	PF-05082566	PF-05082566	UTOMILUMAB	chembl:CHEMBL3707324	63.65
TNFSF10	8743 TTD	Ad5-TRAIL	Ad5-TRAIL			
TNFSF11	8600 TALC	antibody DENOSUMAB	DENOSUMAB		chembl:CHEMBL1237023	71.61
TNFSF12	8742 TTD	BIIB 023	BIIB 023			
TNFSF13	8741 TdgClinicalTrial	TACI-IG	TACI-IG	ATACICEPT	chembl:CHEMBL1742986	95.48
TNFSF13B	10673 TTD	Belimumab	Belimumab	BELIMUMAB	chembl:CHEMBL1789843	63.65
TNFSF14	8740 ChEMBLInteractio	inhibitor CHEMBL177	BAMINERCEPT	BAMINERCEPT	chembl:CHEMBL1742988	31.83
TNFSF4	7292 TTD	MRNA-2416	MRNA-2416			
TNIK	23043 DTC	SB-202190	SB-202190	SB-202190	chembl:CHEMBL278041	0.91
TNK1	8711 DTC	inhibitor TOZASERTIB	TOZASERTIB	TOZASERTIB	chembl:CHEMBL572878	1.82

TNK2	10188 DTC	CYC-116	CYC-116	CYC-116	chembl:CHEMBL482967	0.03
TNKS	8658 TTD	PMID278410	PMID27841036-Compound-37			
TNKS2	80351 GuideToPharmac	inhibitor	404859121 NVP-TNKS656			
TNNC1	7134 TdgClinicalTrial	TIRAMSETI	TIRAMSETIV			
TNNC2	7125 ChemblInteractio	activator	CHEMBL30:TIRASEMTIV	TIRASEMTIV	chembl:CHEMBL3039529	21.22
TNNI2	7136 ChemblInteractio	activator	CHEMBL30:TIRASEMTIV	TIRASEMTIV	chembl:CHEMBL3039529	21.22
TNNI3	7137 DTC	PURPUROG	PURPUROGALLIN	PURPUROGALLIN	chembl:CHEMBL66953	0.59
TNNT1	7138 TdgClinicalTrial	TIRAMSETI	TIRAMSETIV			
TNNT2	7139 DTC	PYROGALL	PYROGALLOL RED	PYROGALLOL RED	chembl:CHEMBL210208	0.85
TNNT3	7140 ChemblInteractio	activator	CHEMBL30:TIRASEMTIV	TIRASEMTIV	chembl:CHEMBL3039529	21.22
TNRC6A	27327 PharmGKB	ethanol	ethanol	ALCOHOL	chembl:CHEMBL545	1.48
TOB1	10140 NCI	STEROID H	STEROID HORMONE			
TOLLIP	54472 PharmGKB	acetylcysteine	acetylcysteine	ACETYLCYSTEINE	chembl:CHEMBL600	4.24
TOP1	7150 PharmGKB	SN-38	SN-38	7-ETHYL-10-HYDROXYCAMPTC	chembl:CHEMBL837	0.27
TOP1MT	116447 TEND	TOPOTECAI	TOPOTECAN	TOPOTECAN	chembl:CHEMBL84	2.83
TOP2A	7153 ChemblInteractio	inhibitor	CHEMBL11{AMRUBICIN	AMRUBICIN	chembl:CHEMBL1186894	1.59
TOP2B	7155 TTD	Salvicine	Salvicine			
TOR1A	1861 PharmGKB	haloperidol	haloperidol	HALOPERIDOL	chembl:CHEMBL54	1.79
TP53	7157 DTC	CAULIBUGI	CAULIBUGULONE D	CAULIBUGULONE D	chembl:CHEMBL447876	0.08
TP53AIP1	63970 PharmGKB	epirubicin	epirubicin	EPIRUBICIN	chembl:CHEMBL417	0.71
TP73	7161 NCI	UVB	UVB			
TPBG	7162 ChemblInteractions	CHEMBL17{NAPTUMOMAB	ESTAFEN	NAPTUMOMAB ESTAFENATOX	chembl:CHEMBL1743045	15.91
TPCN1	53373 GuideToPharmac	blocker	135652732 CD2+			
TPCN2	219931 GuideToPharmac	blocker	135651305 VERAPAMIL	VERAPAMIL	chembl:CHEMBL6966	1.59
TPH1	7166 PharmGKB	citalopram	citalopram	CITALOPRAM	chembl:CHEMBL549	0.62
TPH2	121278 GuideToPharmac	inhibitor	178101333 FENFLURAMINE	FENFLURAMINE	chembl:CHEMBL87493	3.98
TPK1	27010 NCI	ANTIMETAI	ANTIMETABOLITE			
TPM3	7170 NCI	METHOTRE	METHOTREXATE	METHOTREXATE	chembl:CHEMBL34259	0.15
TPMT	7172 PharmGKB	prednisone	prednisone	PREDNISONONE	chembl:CHEMBL635	0.44
TPO	7173 TTD	Methimazole	Methimazole	METHIMAZOLE	chembl:CHEMBL1515	14.14
TPP1	1200 TTD	Cerliponase	Cerliponase Alfa			
TPP2	7174 GuideToPharmac	inhibitor	252166782 EXAMPLE 8 [WO1999033801A1]			
TPSAB1	7177 GuideToPharmac	inhibitor	318164852 RWJ-56423	CHEMBL256892	chembl:CHEMBL256892	10.61
TPSB2	64499 NCI	SALT	SALT	VOLANESORSEN SODIUM	chembl:CHEMBL3544989	5.3
TPSD1	23430 NCI	CETIRIZINE	CETIRIZINE	CETIRIZINE	chembl:CHEMBL1000	12.73
TPT1	7178 NCI	5-FLUOROU	5-FLUOROURACIL	FLUOROURACIL	chembl:CHEMBL185	1.21
TRAF1	7185 PharmGKB	adalimumab	adalimumab	ADALIMUMAB	chembl:CHEMBL1201580	2.5
TRAF3IP2	10758 PharmGKB	nevirapine	nevirapine	NEVIRAPINE	chembl:CHEMBL57	2.77
TRAP1	10131 GuideToPharmac	inhibitor	315661336 LUMINESPIB	LUMINESPIB	chembl:CHEMBL252164	15.91
TRBC1	28639 TTD	TRBC1	TRBC1			
TRBV20OR9-2	6962 TTD	NY-ESO-TCI	NY-ESO-TCR			
TREML4	285852 PharmGKB	duloxetine	duloxetine	DULOXETINE	chembl:CHEMBL1175	6.37

TRGV3	6976 ChEMBLInteraction inhibitor	CHEMBL21(TOL-101	TOL-101	chembl:CHEMBL2109591	15.91
TRH	7200 NCI	ERYTHRO ERYTHRO			
TRHR	7201 TTD	Protirelin Protirelin	PROTIRELIN	chembl:CHEMBL1472	25.46
TRIB2	28951 PharmGKB	allopurinol allopurinol	ALLOPURINOL	chembl:CHEMBL1467	4.39
TRIB3	57761 PharmGKB	methylphenidmethylphenidate	METHYLPHENIDATE	chembl:CHEMBL796	2.83
TRIM24	8805 GuideToPharmacology	387065618 DTRIM24			
TRIM5	85363 PharmGKB	carboplatin carboplatin	CARBOPLATIN	chembl:CHEMBL1351	0.4
TRIT1	54802 NCI	5-AZACYTII5-AZACYTIDINE	AZACITIDINE	chembl:CHEMBL1489	3.74
TRPA1	8989 GuideToPharmacblocker	381744957 AM-0902			
TRPC1	7220 GuideToPharmacblocker	135649695 2-APB			
TRPC3	7222 GuideToPharmacblocker	178103669 NORGESTIMATE	NORGESTIMATE	chembl:CHEMBL1200934	6.37
TRPC4	7223 GuideToPharmacblocker	381744969 M084			
TRPC5	7224 GuideToPharmacactivator	381744970 BTD			
TRPC6	7225 GuideToPharmacblocker	135649885 ACAA			
TRPC7	57113 GuideToPharmacblocker	374883855 SH045			
TRPM1	4308 GuideToPharmacblocker	135652747 ZN2+			
TRPM2	7226 GuideToPharmacblocker	135650269 FLUFENAMIC ACID			
TRPM3	80036 GuideToPharmacactivator	53801018 SPHINGOSINE	SPHINGOSINE	chembl:CHEMBL67166	1.93
TRPM4	54795 GuideToPharmacinhibitor	135651427 ADP	ADENOSINE DIPHOSPHATE	chembl:CHEMBL14830	2.12
TRPM5	29850 GuideToPharmacblocker	135650269 FLUFENAMIC ACID			
TRPM6	140803 GuideToPharmacblocker	135652746 RUTHENIUM RED			
TRPM7	54822 GuideToPharmacblocker	178101079 NAFAMOSTAT	NAFAMOSTAT	chembl:CHEMBL273264	2.89
TRPM8	79054 GuideToPharmacblocker	135651503 LINOLEIC ACID			
TRPV1	7442 TTD	PMID256666PMID25666693-Compound-23			
TRPV2	51393 GuideToPharmacblocker	135652740 LA3+			
TRPV3	162514 GuideToPharmacblocker	381744984 FORSYTHOSIDE B			
TRPV4	59341 TTD	GSK2798745GSK2798745	GSK2798745	chembl:CHEMBL3707225	63.65
TRPV5	56302 GuideToPharmacblocker	135650220 ECONAZOLE	ECONAZOLE	chembl:CHEMBL808	10.61
TRPV6	55503 TTD	SOR-C13 SOR-C13	SOR-C13	chembl:CHEMBL4228250	63.65
TSC1	7248 CIViC	SIROLIMUS SIROLIMUS	SIROLIMUS	chembl:CHEMBL413	0.76
TSC2	7249 CIViC	EVEROLIMIEVEROLIMUS	EVEROLIMUS	chembl:CHEMBL1908360	6.53
TSC22D3	1831 NCI	HYDROCORHYDROCORTISONE	HYDROCORTISONE	chembl:CHEMBL389621	1.68
TSG101	7251 DTC	FLUORANT.FLUORANTHEN-3-YLAMICHEMBL103583	CHEMBL103583	chembl:CHEMBL103583	0.61
TSHB	7252 NCI	AZATHIOPRAZATHIOPRINE	AZATHIOPRINE	chembl:CHEMBL1542	0.46
TSHR	7253 DTC	SIBUTRAMISIBUTRAMINE HYDROCHSIBUTRAMINE HYDROCHLORII	chembl:CHEMBL1200765	chembl:CHEMBL1200765	0.12
TSHZ2	128553 PharmGKB	allopurinol allopurinol	ALLOPURINOL	chembl:CHEMBL1467	4.39
TSLP	85480 TTD	MEDI9929 MEDI9929			
TSPAN5	10098 PharmGKB	citalopram citalopram	CITALOPRAM	chembl:CHEMBL549	1.87
TSPO	706 TTD	Quinoline carQuinoline carboxamide derivative 7			
TSPYL1	7259 PharmGKB	prednisolone prednisolone	PREDNISOLONE	chembl:CHEMBL131	1.22
TSPYL2	64061 NCI	BROMODECBROMODEOXYURIDINE			
TSSK1B	83942 DTC	GSK-269962.GSK-269962A	GSK-269962A	chembl:CHEMBL220241	0.18

TSSK2	23617 DTC	GW843682X	GW843682X	GW843682X	chembl:CHEMBL514499	0.33		
TTC37	9652 PharmGKB	duloxetine	duloxetine	DULOXETINE	chembl:CHEMBL1175	6.37		
TTK	7272 GuideToPharmac	inhibitor	328083505	RO3280				
TTN	7273 NCI	PROTEASE	PROTEASE	INHIBITORS				
TTR	7276 FDA	Tafamidis	Tafamidis	TAFAMIDIS	chembl:CHEMBL2103837	35.36		
TUB	7275 TTD	Docetaxel	Docetaxel	DOCETAXEL	chembl:CHEMBL92	0.06		
TUBA1A	7846 TdgClinicalTrial	MEBENDAZ	MEBENDAZOLE	MEBENDAZOLE	chembl:CHEMBL685	2.12		
TUBA1B	10376 ChemblInteractio	inhibitor	CHEMBL53{	VINORELBIN DITARTRAT	VINORELBINE TARTRATE	chembl:CHEMBL538943	0.1	
TUBA1C	84790 ChemblInteractio	inhibitor	CHEMBL37{	VINBLASTINE SULFATE	VINBLASTINE SULFATE	chembl:CHEMBL378544	0.08	
TUBA3C	7278 DTC	VINCRISTIN	VINCRISTINE	VINCRISTINE	chembl:CHEMBL90555	0.21		
TUBA3D	113457 DTC	ZAMPANOL	ZAMPANOLIDE	ZAMPANOLIDE	chembl:CHEMBL582439	0.19		
TUBA3E	112714 ChemblInteractio	inhibitor	CHEMBL10{	COLCHICINE	COLCHICINE	chembl:CHEMBL107	0.29	
TUBA4A	7277 DTC	MAYTANSI	MAYTANSINOL	MAYTANSINOL	chembl:CHEMBL214154	0.19		
TUBB	203068 GuideToPharmac	inhibitor	135652721	PACLITAXEL	PACLITAXEL	chembl:CHEMBL428647	0.19	
TUBB1	81027 TEND	PACLITAXE	PACLITAXEL	PACLITAXEL	chembl:CHEMBL428647	0.25		
TUBB2A	7280 DTC	VINORELBI	VINORELBINE	BASE	VINORELBINE	chembl:CHEMBL553025	0.23	
TUBB2B	347733 ChemblInteractio	inhibitor	CHEMBL17{	BRENTUXIMAB VEDOTIN	BRENTUXIMAB VEDOTIN	chembl:CHEMBL1742994	0.1	
TUBB3	10381 DTC	PODOFILOX	PODOFILOX	PODOFILOX	chembl:CHEMBL61	0.26		
TUBB4A	10382 DTC	4-(PHENYL	4-(PHENYL	CARBAMOYL)	CHEMBL1795737	chembl:CHEMBL1795737	0.38	
TUBB4B	10383 DTC	MAYTANSI	MAYTANSINE	MAYTANSINE	chembl:CHEMBL292702	0.19		
TUBB6	84617 ChemblInteractio	inhibitor	CHEMBL17{	BRENTUXIMAB VEDOTIN	BRENTUXIMAB VEDOTIN	chembl:CHEMBL1742994	0.1	
TUBB8	347688 ChemblInteractions		CHEMBL21{	PACLITAXEL POLIGLUMEPACLITAXEL	POLIGLUMEX	chembl:CHEMBL2108628	0.11	
TUSC2	11334 TTD	CNVN-202	CNVN-202					
TXK	7294 GuideToPharmac	inhibitor	178102336	BOSUTINIB	BOSUTINIB	chembl:CHEMBL288441	0.84	
TXN	7295 DTC	GAMBOGIC	GAMBOGIC	ACID	GAMBOGIC	ACID	chembl:CHEMBL555017	3.54
TXN2	25828 DTC	GAMBOGIC	GAMBOGIC	ACID	GAMBOGIC	ACID	chembl:CHEMBL555017	4.71
TXNDC11	51061 PharmGKB	hydrochloro	hydrochloro	thiazide	HYDROCHLOROTHIAZIDE	chembl:CHEMBL435	1.77	
TXNIP	10628 NCI	FAS-LIGAN	FAS-LIGAN					
TXNRD1	7296 TTD	4-aryl quinol	4-aryl quinol	derivative	7			
TXNRD2	10587 TdgClinicalTrial	MOTEXAFIN	MOTEXAFIN	GADOLINIUM				
TXNRD3	114112 TdgClinicalTrial	MOTEXAFIN	MOTEXAFIN	GADOLINIUM				
TYK2	7297 GuideToPharmac	inhibitor	178102342	FEDRATINIB	FEDRATINIB	chembl:CHEMBL1287853	0.34	
TYMP	1890 NCI	FLUOROUR	FLUOROURACIL	FLUOROURACIL	chembl:CHEMBL185	0.4		
TYMS	7298 ChemblInteractio	inhibitor	CHEMBL12{	PEMETREXED DISODIUM				
TYMSOS	494514 PharmGKB	azathioprine	azathioprine	AZATHIOPRINE	chembl:CHEMBL1542	0.39		
TYR	7299 TTD	Resorcinol	ccResorcinol	compound	2			
TYRO3	7301 TTD	KRDULPYO	KRDULPYO	VRWKMA-UHFFFAOYSA-N				
TYRP1	7306 TTD	Flanvotumab	Flanvotumab	FLANVOTUMAB	chembl:CHEMBL2108734	127.3		
U2AF1	7307 JAX-CKB	N/A	N/A					
UBA1	7317 DTC	HYRTIOER	HYRTIOER	ECTINE B	HYRTIOERECTINE B	chembl:CHEMBL526126	63.65	
UBA2	10054 DTC	LOBARIC	LOBARIC	ACID	LOBARIC	ACID	chembl:CHEMBL551842	0.53
UBA3	9039 ChemblInteractio	inhibitor	CHEMBL12{	PEVONEDISTAT	PEVONEDISTAT	chembl:CHEMBL1231160	31.83	

UBC	7316 TTD	PMID255537	PMID25553724-Compound-US20130237529 35			
UBE2D1	7321 NCI	DESFERRIO	DESFERRIOXAMINE	DEFEROXAMINE	chembl:CHEMBL556	9.09
UBE2I	7329 PharmGKB	cisplatin	cisplatin	CISPLATIN	chembl:CHEMBL11359	0.44
UBE2N	7334 DTC	NSC-60340	NSC-60340	CHEMBL1534034	chembl:CHEMBL1534034	0.25
UBE2T	29089 TTD	MK-2206	MK-2206	MK-2206	chembl:CHEMBL1079175	3.74
UBR1	197131 NCI	DEXAMETH	DEXAMETHASONE	DEXAMETHASONE	chembl:CHEMBL384467	1.52
UCHL1	7345 GuideToPharmac	inhibitor	252166861 LDN-91946			
UCHL3	7347 GuideToPharmac	inhibitor	252166860 COMPOUND 6 [PMID: 17948018]			
UCHL5	51377 TTD	PMID260776	PMID26077642-Compound-Figure3A			
UCP1	7350 NCI	STREPTOZ	STREPTOZOTOCIN	STREPTOZOCIN	chembl:CHEMBL1651906	0.92
UCP2	7351 NCI	INTRALIPID	INTRALIPID	SOYBEAN OIL	chembl:CHEMBL1201485	6.37
UCP3	7352 TTD	CL-316,243	CL-316,243			
UGCG	7357 TTD	Eliglustat	Eliglustat tartrate			
UGDH	7358 NCI	ACETYLSAI	ACETYLSALICYLIC ACID			
UGGT2	55757 PharmGKB	hydrochlorot	hydrochlorothiazide	HYDROCHLOROTHIAZIDE	chembl:CHEMBL435	1.77
UGT1A	7361 PharmGKB	bilirubin	bilirubin	BILIRUBIN	chembl:CHEMBL501680	7.96
UGT1A1	54658 CIViC	BELINOSTA	BELINOSTAT	BELINOSTAT	chembl:CHEMBL408513	0.39
UGT1A10	54575 NCI	ANTINEOPL	ANTINEOPLASTIC AGENT			
UGT1A3	54659 PharmGKB	atazanavir	atazanavir	ATAZANAVIR	chembl:CHEMBL1163	1.01
UGT1A4	54657 NCI	NICOTINE	NICOTINE	NICOTINE	chembl:CHEMBL3	0.19
UGT1A5	54579 PharmGKB	febuxostat	febuxostat	FEBUXOSTAT	chembl:CHEMBL1164729	1.18
UGT1A6	54578 PharmGKB	daunorubicin	daunorubicin	DAUNORUBICIN	chembl:CHEMBL178	0.08
UGT1A7	54577 NCI	NICOTINE	NICOTINE	NICOTINE	chembl:CHEMBL3	0.29
UGT1A8	54576 PharmGKB	febuxostat	febuxostat	FEBUXOSTAT	chembl:CHEMBL1164729	0.96
UGT1A9	54600 PharmGKB	SN-38	SN-38	7-ETHYL-10-HYDROXYCAMPTC	chembl:CHEMBL837	0.69
UGT2A1	10941 PharmGKB	imatinib	imatinib	IMATINIB	chembl:CHEMBL941	1.99
UGT2B10	7365 PharmGKB	nicotine	nicotine	NICOTINE	chembl:CHEMBL3	2.6
UGT2B15	7366 PharmGKB	phenobarbital	phenobarbital	PHENOBARBITAL	chembl:CHEMBL40	0.57
UGT2B17	7367 PharmGKB	ibuprofen	ibuprofen	IBUPROFEN	chembl:CHEMBL521	3.74
UGT2B4	7363 PharmGKB	ibuprofen	ibuprofen	IBUPROFEN	chembl:CHEMBL521	3.74
UGT2B7	7364 PharmGKB	methadone	methadone	METHADONE	chembl:CHEMBL651	0.32
ULK1	8408 GuideToPharmac	inhibitor	249565893 COMPOUND R-16 [PMID: 21967808]			
ULK3	25989 GuideToPharmac	inhibitor	249565900 COMPOUND 15 [PMID: 24900237]			
UMOD	7369 PharmGKB	cyclosporine	cyclosporine	CYCLOSPORINE	chembl:CHEMBL160	2.05
UMPS	7372 PharmGKB	capecitabine	capecitabine	CAPECITABINE	chembl:CHEMBL1773	1.41
UNC119	9094 GuideToPharmacology		374883853 SQUARUNKIN A			
UNC13D	201294 PharmGKB	emapalumab	emapalumab	EMAPALUMAB	chembl:CHEMBL3989977	15.91
UOX	391051 NCI	POLYETHY	POLYETHYLENE GLYCOL			
UQCR10	29796 DTC	FAMOXAD	FAMOXADONE	FAMOXADONE	chembl:CHEMBL10118	190.95
UQCRB	7381 DTC	TERPESTA	TERPESTACIN	TERPESTACIN	chembl:CHEMBL1669042	127.3
USP1	7398 DTC	GNF-PF-551	GNF-PF-5510	CHEMBL578741	chembl:CHEMBL578741	0.01
USP14	9097 GuideToPharmac	inhibitor	252827537 IU1			

USP2	9099 DTC	QUINALIZA QUINALIZARIN	QUINALIZARIN	chembl:CHEMBL29898	0.16
USP5	8078 DTC	VIALININ A VIALININ A	VIALININ A	chembl:CHEMBL2012938	127.3
USP7	7874 TTD	PMID260776 PMID26077642-Compound-Vifl			
USP9Y	8287 NCI	TESTOSTERTESTOSTERONE	TESTOSTERONE	chembl:CHEMBL386630	3.54
UST	10090 PharmGKB	nortriptyline nortriptyline	NORTRIPTYLINE	chembl:CHEMBL445	15.91
UTRN	7402 NCI	ENZYME IN ENZYME INHIBITOR			
UTS2R	2837 GuideToPharmac antagonist	329968377 JNJ-39319202			
VAC14	55697 PharmGKB	docetaxel docetaxel	DOCETAXEL	chembl:CHEMBL92	0.81
VAMP1	6843 TTD	Botulinum Tc Botulinum Toxin Type B			
VAMP2	6844 TdgClinicalTrial	BOTULINUM BOTULINUM TOXIN TYPE B			
VASP	7408 PharmGKB	hydrochloroth hydrochlorothiazide	HYDROCHLOROTHIAZIDE	chembl:CHEMBL435	1.77
VAV1	7409 NCI	PHORBOL M PHORBOL MYRISTATE ACETATE			
VCAM1	7412 NCI	TROGLITAZ TROGLITAZONE	TROGLITAZONE	chembl:CHEMBL408	1.22
VCAN	1462 NCI	CSA CSA	CYCLOSPORINE	chembl:CHEMBL160	2.05
VCP	7415 DTC	AMEN TO FLAMEN TO FLAVONE	AMEN TO FLAVONE	chembl:CHEMBL63354	2.65
VDAC1	7416 TTD	VDA-1102 tc VDA-1102 topical ointment			
VDAC2	7417 TdgClinicalTrial	OLESOXIM IOLESOXIME	OLESOXIME	chembl:CHEMBL3545254	15.91
VDAC3	7419 TdgClinicalTrial	OLESOXIM IOLESOXIME	OLESOXIME	chembl:CHEMBL3545254	15.91
VDR	7421 DTC	NIFEKALAN NIFEKALANT	NIFEKALANT	chembl:CHEMBL360861	0.14
VEGFA	7422 NCI	ANTHRACY ANTHRACYCLINE			
VEGFB	7423 ChemblInteraction inhibitor	CHEMBL21 (CONBERCEPT	CONBERCEPT	chembl:CHEMBL2108313	3.98
VEGFC	7424 PharmGKB	bevacizumab bevacizumab	BEVACIZUMAB	chembl:CHEMBL1201583	1.03
VHL	7428 JAX-CKB	Everolimus Everolimus	EVEROLIMUS	chembl:CHEMBL1908360	0.33
VIM	7431 NCI	ENU ENU			
VIP	7432 NCI	RIBAVIRIN RIBAVIRIN	RIBAVIRIN	chembl:CHEMBL1643	0.55
VIPR1	7433 NCI	IL-2 IL-2	ALDESLEUKIN	wikidata:Q20801763	1.63
VIPR2	7434 GuideToPharmac agonist	135652544 [125I]PACAP-27			
VKORC1	79001 TTD	Tecarfarin Tecarfarin	TECARFARIN	chembl:CHEMBL2105664	11.57
VKORC1L1	154807 TdgClinicalTrial	MENADION MENADIONE	MENADIONE	chembl:CHEMBL590	6.82
VNN1	8876 GuideToPharmac inhibitor	381118911 EXAMPLE 25 [WO2018228934]			
VPS35	55737 DTC	MELAGATRMELAGATRAN	MELAGATRAN	chembl:CHEMBL266349	21.22
VPS37A	137492 CIViC	CETUXIMA I CETUXIMAB	CETUXIMAB	chembl:CHEMBL1201577	2.96
VSIR	64115 TTD	JNJ-6161058 JNJ-61610588	ONVATILIMAB	chembl:CHEMBL4298000	63.65
VWF	7450 TdgClinicalTrial	FACTOR VII FACTOR VIII			
WAS	7454 TTD	WASP gene t WASP gene therapy			
WDR5	11091 GuideToPharmac antagonist	249565911 OICR-9429			
WEE1	7465 ClarityFoundationClinical	MK 1775 MK 1775			
WIF1	11197 PharmGKB	Platinum con Platinum compounds			
WNK1	65125 GuideToPharmac inhibitor	252827493 PP1			
WNK2	65268 GuideToPharmac inhibitor	249565802 COMPOUND 25 [PMID: 17935989]			
WNK3	65267 GuideToPharmac inhibitor	249565818 COMPOUND 2C [PMID: 24900538]			
WNT5B	81029 PharmGKB	Platinum con Platinum compounds			

WNT7A	7476 NCI	DES	DES	DIETHYLSTILBESTROL	chembl:CHEMBL411	4.24
WRN	7486 DTC	NSC-7387	NSC-7387	CHEMBL119878	chembl:CHEMBL119878	0.11
WT1	7490 TTD	Combined PFCombined PR1/WT1 vaccine				
WWOX	51741 NCI	TUMOR NECTUMOR NECROSIS FACTOR				
XBP1	7494 DTC	FLUSPIRILE	FLUSPIRILENE	FLUSPIRILENE	chembl:CHEMBL46516	0.15
XCR1	2829 GuideToPharmacagonist	135651921 XCL2				
XDH	7498 TTD	PMID278410PMID27841045-Compound-156				
XIAP	331 TTD	PMID259809PMID25980951-Compound-7				
XIRP2	129446 PharmGKB	atenolol	atenolol	ATENOLOL	chembl:CHEMBL24	1.87
XK	7504 TTD	NPC-1C	NPC-1C	ENSITUXIMAB	chembl:CHEMBL1743013	31.83
XPA	7507 PharmGKB	Platinum corPlatinum compounds				
XPC	7508 PharmGKB	Platinum corPlatinum compounds				
XPNPEP1	7511 ChemblInteractioinhibitor	CHEMBL21(TOSEDOSTAT		TOSEDOSTAT	chembl:CHEMBL2103847	3.35
XPNPEP2	7512 ChemblInteractioinhibitor	CHEMBL21(TOSEDOSTAT		TOSEDOSTAT	chembl:CHEMBL2103847	3.35
XPNPEP3	63929 ChemblInteractioinhibitor	CHEMBL21(TOSEDOSTAT		TOSEDOSTAT	chembl:CHEMBL2103847	3.35
XPO1	7514 ChemblInteractioinhibitor	CHEMBL354SELINEXOR		SELINEXOR	chembl:CHEMBL3545185	36.37
XRCC1	7515 CIViC	CARBOPLA	CARBOPLATIN	CARBOPLATIN	chembl:CHEMBL1351	0.16
XRCC3	7517 PharmGKB	irinotecan	irinotecan	IRINOTECAN	chembl:CHEMBL481	0.8
XRCC4	7518 PharmGKB	fluorouracil	fluorouracil	FLUOROURACIL	chembl:CHEMBL185	0.61
XRCC5	7520 NCI	CAMPTOTH	CAMPTOTHECIN	CAMPTOTHECIN	chembl:CHEMBL65	0.71
XYLT2	64132 PharmGKB	gemcitabine	gemcitabine	GEMCITABINE	chembl:CHEMBL888	0.79
YEATS4	8089 PharmGKB	hydrochlorot	hydrochlorothiazide	HYDROCHLOROTHIAZIDE	chembl:CHEMBL435	1.77
YES1	7525 DTC	GSK-625137	GSK-625137A	GSK-625137A	chembl:CHEMBL230911	0.3
YWHAE	7531 NCI	INSULIN	INSULIN	INSULIN	chembl:CHEMBL1201631	2.5
YWHAG	7532 DTC	DAUNORUEDAUNORUBICIN	HYDROCD	DAUNORUBICIN HYDROCHLOR	chembl:CHEMBL1563	0.96
YY1	7528 NCI	ANTISERUMANTISERUM				
ZACN	353174 GuideToPharmacagonist	135652738 H+				
ZAP70	7535 GuideToPharmacinhibitor	178102669 SYK INHIBITOR II				
ZBTB22	9278 PharmGKB	aspirin	aspirin	ASPIRIN	chembl:CHEMBL25	0.87
ZDHHC7	55625 PharmGKB	methylphenid	methylphenidate	METHYLPHENIDATE	chembl:CHEMBL796	2.83
ZEB1	6935 CIViC	DOXORUBI	DOXORUBICIN	DOXORUBICIN	chembl:CHEMBL53463	0.45
ZFP36L2	678 NCI	BUTYRATE	BUTYRATE			
ZIC4	84107 PharmGKB	haloperidol	haloperidol	HALOPERIDOL	chembl:CHEMBL54	1.79
ZMAT4	79698 PharmGKB	atenolol	atenolol	ATENOLOL	chembl:CHEMBL24	1.87
ZNF100	163227 PharmGKB	antineoplasticantineoplastic agents				
ZNF134	7693 PharmGKB	methylphenid	methylphenidate	METHYLPHENIDATE	chembl:CHEMBL796	2.83
ZNF165	7718 PharmGKB	opioids				
ZNF211	10520 PharmGKB	methylphenid	methylphenidate	METHYLPHENIDATE	chembl:CHEMBL796	2.83
ZNF385D	79750 PharmGKB	duloxetine	duloxetine	DULOXETINE	chembl:CHEMBL1175	9.55
ZNF423	23090 PharmGKB	tamoxifen	tamoxifen	TAMOXIFEN	chembl:CHEMBL83	1.08
ZNF565	147929 PharmGKB	methylphenid	methylphenidate	METHYLPHENIDATE	chembl:CHEMBL796	2.83
ZNF568	374900 PharmGKB	opioids				

ZNF697	90874 PharmGKB	interferon betinterferon beta-1a		
ZNF804A	91752 PharmGKB	antipsychotic:antipsychotics		
ZNF816	125893 PharmGKB	Tumor necrosTumor necrosis factor alpha (TNF-alpha) inhibitors		
ZRSR2	8233 OncoKB	H3B-8800 H3B-8800		
ZSCAN25	221785 PharmGKB	lumefantrine lumefantrine	LUMEFANTRINE	chembl:CHEMBL38827
ZUP1	221302 TTD	Azepan-4-oncAzepan-4-one derivative 2		5.3

Table S2. The druggable genes from Finan et al.

<u>Ensembl gene id</u>	<u>gene names</u>
ENSG00000000938	FGR
ENSG00000001626	CFTR
ENSG00000001630	CYP51A1
ENSG00000002549	LAP3
ENSG00000004468	CD38
ENSG00000004478	FKBP4
ENSG00000004660	CAMKK1
ENSG00000004700	RECQL
ENSG00000004809	SLC22A16
ENSG00000004846	ABCB5
ENSG00000004948	CALCR
ENSG00000005381	MPO
ENSG00000005421	PON1
ENSG00000005471	ABCB4
ENSG00000005844	ITGAL
ENSG00000005961	ITGA2B
ENSG00000006071	ABCC8
ENSG00000006283	CACNA1G
ENSG00000006327	TNFRSF12A
ENSG00000006432	MAP3K9
ENSG00000006638	TBXA2R
ENSG00000007047	MARK4
ENSG00000007171	NOS2
ENSG00000007216	SLC13A2
ENSG00000007264	MATK
ENSG00000007312	CD79B
ENSG00000007314	SCN4A
ENSG00000007402	CACNA2D2
ENSG00000007908	SELE
ENSG00000007933	FMO3
ENSG00000008018	PSMB1
ENSG00000008086	CDKL5
ENSG00000008394	MGST1

ENSG00000010310	GIPR
ENSG00000010322	NISCH
ENSG00000010610	CD4
ENSG00000010671	BTK
ENSG00000010810	FYN
ENSG00000010932	FMO1
ENSG00000011566	MAP4K3
ENSG00000011677	GABRA3
ENSG00000012124	CD22
ENSG00000012504	NR1H4
ENSG00000012779	ALOX5
ENSG00000012983	MAP4K5
ENSG00000013441	CLK1
ENSG00000013725	CD6
ENSG00000015413	DPEP1
ENSG00000015520	NPC1L1
ENSG00000016490	CLCA1
ENSG00000016602	CLCA4
ENSG00000017427	IGF1
ENSG00000018625	ATP1A2
ENSG00000019186	CYP24A1
ENSG00000019582	CD74
ENSG00000019991	HGF
ENSG00000021461	CYP3A43
ENSG00000021826	CPS1
ENSG00000022355	GABRA1
ENSG00000023445	BIRC3
ENSG00000023839	ABCC2
ENSG00000026025	VIM
ENSG00000026508	CD44
ENSG00000026751	SLAMF7
ENSG00000027075	PRKCH
ENSG00000027697	IFNGR1
ENSG00000028116	VRK2
ENSG00000030304	MUSK
ENSG00000034152	MAP2K3
ENSG00000035664	DAPK2
ENSG00000036530	CYP46A1
ENSG00000036828	CASR
ENSG00000037280	FLT4
ENSG00000041982	TNC
ENSG00000042088	TDP1

ENSG00000043591	ADRB1
ENSG00000044524	EPHA3
ENSG00000047936	ROS1
ENSG00000048052	HDAC9
ENSG00000049249	TNFRSF9
ENSG00000049319	SRD5A2
ENSG00000050555	LAMC3
ENSG00000050628	PTGER3
ENSG00000050748	MAPK9
ENSG00000051382	PIK3CB
ENSG00000053747	LAMA3
ENSG00000053918	KCNQ1
ENSG00000055118	KCNH2
ENSG00000057593	F7
ENSG00000058085	LAMC2
ENSG00000058404	CAMK2B
ENSG00000058729	RIOK2
ENSG00000059377	TBXAS1
ENSG00000061273	HDAC7
ENSG00000061918	GUCY1B3
ENSG00000061938	TNK2
ENSG00000062038	CDH3
ENSG00000062524	LTK
ENSG00000062822	POLD1
ENSG00000063854	HAGH
ENSG00000064012	CASP8
ENSG00000064300	NGFR
ENSG00000064393	HIPK2
ENSG00000064547	LPAR2
ENSG00000064989	CALCRL
ENSG00000065243	PKN2
ENSG00000065325	GLP2R
ENSG00000065361	ERBB3
ENSG00000065534	MYLK
ENSG00000065559	MAP2K4
ENSG00000065613	SLK
ENSG00000065621	GSTO2
ENSG00000065675	PRKCQ
ENSG00000065883	CDK13
ENSG00000065989	PDE4A
ENSG00000066056	TIE1
ENSG00000066230	SLC9A3

ENSG00000066405	CLDN18
ENSG00000066468	FGFR2
ENSG00000067182	TNFRSF1A
ENSG00000067225	PKM
ENSG00000067606	PRKCZ
ENSG00000067900	ROCK1
ENSG00000068024	HDAC4
ENSG00000068078	FGFR3
ENSG00000069431	ABCC9
ENSG00000069535	MAOB
ENSG00000069696	DRD4
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ENSG00000070808	CAMK2A
ENSG00000070886	EPHA8
ENSG00000070915	SLC12A3
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ENSG00000071242	RPS6KA2
ENSG00000072062	PRKACA
ENSG00000072133	RPS6KA6
ENSG00000072210	ALDH3A2
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ENSG00000072506	HSD17B10
ENSG00000072518	MARK2
ENSG00000072694	FCGR2B
ENSG00000072786	STK10
ENSG00000073417	PDE8A
ENSG00000073734	ABCB11
ENSG00000073737	DHRS9
ENSG00000073756	PTGS2
ENSG00000073803	MAP3K13
ENSG00000074319	TSG101
ENSG00000074410	CA12
ENSG00000074590	NUAK1
ENSG00000074803	SLC12A1
ENSG00000074966	TXK
ENSG00000075043	KCNQ2
ENSG00000075073	TACR2
ENSG00000075388	FGF4
ENSG00000075413	MARK3
ENSG00000075651	PLD1

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ENSG00000076706	MCAM
ENSG00000076984	MAP2K7
ENSG00000077092	RARB
ENSG00000077097	TOP2B
ENSG00000077238	IL4R
ENSG00000077264	PAK3
ENSG00000077498	TYR
ENSG00000077782	FGFR1
ENSG00000078098	FAP
ENSG00000079277	MKNK1
ENSG00000079459	FDFT1
ENSG00000079999	KEAP1
ENSG00000080224	EPHA6
ENSG00000080293	SCTR
ENSG00000080644	CHRNA3
ENSG00000080815	PSEN1
ENSG00000080824	HSP90AA1
ENSG00000081051	AFP
ENSG00000081237	PTPRC
ENSG00000081248	CACNA1S
ENSG00000081320	STK17B
ENSG00000081800	SLC13A1
ENSG00000082175	PGR
ENSG00000082482	KCNK2
ENSG00000082556	OPRK1
ENSG00000082701	GSK3B
ENSG00000082781	ITGB5
ENSG00000083290	ULK2
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ENSG00000084207	GSTP1
ENSG00000084453	SLCO1A2
ENSG00000084674	APOB
ENSG00000085511	MAP3K4
ENSG00000085563	ABCB1
ENSG00000085662	AKR1B1
ENSG00000085871	MGST2
ENSG00000086205	FOLH1
ENSG00000086548	CEACAM6
ENSG00000087076	HSD17B14
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ENSG00000087237	CETP
ENSG00000087245	MMP2
ENSG00000087494	PTHLH
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ENSG00000088002	SULT2B1
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ENSG00000088832	FKBP1A
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ENSG00000089597	GANAB
ENSG00000090020	SLC9A1
ENSG00000090339	ICAM1
ENSG00000090376	IRAK3
ENSG00000090402	SI
ENSG00000090534	THPO
ENSG00000091128	LAMB4
ENSG00000091136	LAMB1
ENSG00000091181	IL5RA
ENSG00000091262	ABCC6
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ENSG00000091879	ANGPT2
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ENSG00000092054	MYH7
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ENSG00000094631	HDAC6
ENSG00000094963	FMO2
ENSG00000095303	PTGS1
ENSG00000095464	PDE6C
ENSG00000095596	CYP26A1
ENSG00000096060	FKBP5
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ENSG00000096384	HSP90AB1
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ENSG00000100191	SLC5A4
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ENSG00000100346	CACNA1I
ENSG00000100385	IL2RB
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ENSG00000100804	PSMB5
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ENSG00000100867	DHRS2
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ENSG00000101204	CHRNA4
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ENSG00000102010	BMX
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ENSG00000102245	CD40LG
ENSG00000102312	PORCN
ENSG00000102393	GLA
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ENSG00000102572	STK24
ENSG00000102755	FLT1
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ENSG00000102882	MAPK3
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ENSG00000102996	MMP15
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ENSG00000104267	CA2
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ENSG00000104368	PLAT
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ENSG00000105146	AURKC
ENSG00000105173	CCNE1

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ENSG00000105329	TGFB1
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ENSG00000105397	TYK2
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ENSG00000105695	MAG
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ENSG00000105723	GSK3A
ENSG00000105737	GRIK5
ENSG00000105810	CDK6
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ENSG00000105852	PON3
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ENSG00000105976	MET
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ENSG00000106128	GHRHR
ENSG00000106211	HSPB1
ENSG00000106258	CYP3A5
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ENSG00000107165	TYRP1
ENSG00000107643	MAPK8
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ENSG00000108242	CYP2C18
ENSG00000108405	P2RX1
ENSG00000108443	RPS6KB1

ENSG00000108556	CHRNE
ENSG00000108576	SLC6A4
ENSG00000108602	ALDH3A1
ENSG00000108691	CCL2
ENSG00000108786	HSD17B1
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ENSG00000108846	ABCC3
ENSG00000108984	MAP2K6
ENSG00000109016	DHRS7B
ENSG00000109099	PMP22
ENSG00000109158	GABRA4
ENSG00000109163	GNRHR
ENSG00000109181	UGT2B10
ENSG00000109193	SULT1E1
ENSG00000109320	NFKB1
ENSG00000109339	MAPK10
ENSG00000109471	IL2
ENSG00000109610	SOD3
ENSG00000110063	DCPS
ENSG00000110092	CCND1
ENSG00000110148	CCKBR
ENSG00000110195	FOLR1
ENSG00000110330	BIRC2
ENSG00000110422	HIPK3
ENSG00000110448	CD5
ENSG00000110628	SLC22A18
ENSG00000110680	CALCA
ENSG00000110799	VWF
ENSG00000110931	CAMKK2
ENSG00000110944	IL23A
ENSG00000111012	CYP27B1
ENSG00000111057	KRT18
ENSG00000111142	METAP2
ENSG00000111144	LTA4H
ENSG00000111275	ALDH2
ENSG00000111319	SCNN1A
ENSG00000111321	LTBR
ENSG00000111424	VDR
ENSG00000111537	IFNG
ENSG00000111700	SLCO1B3
ENSG00000111816	FRK
ENSG00000111837	MAK

ENSG00000112033	PPARD
ENSG00000112038	OPRM1
ENSG00000112062	MAPK14
ENSG00000112096	SOD2
ENSG00000112115	IL17A
ENSG00000112116	IL17F
ENSG00000112144	ICK
ENSG00000112164	GLP1R
ENSG00000112294	ALDH5A1
ENSG00000112312	GMNN
ENSG00000112499	SLC22A2
ENSG00000112541	PDE10A
ENSG00000112576	CCND3
ENSG00000112715	VEGFA
ENSG00000112739	PRPF4B
ENSG00000112742	TTK
ENSG00000112759	SLC29A1
ENSG00000112769	LAMA4
ENSG00000112964	GHR
ENSG00000113070	HBEGF
ENSG00000113161	HMGCR
ENSG00000113231	PDE8B
ENSG00000113240	CLK4
ENSG00000113263	ITK
ENSG00000113302	IL12B
ENSG00000113327	GABRG2
ENSG00000113448	PDE4D
ENSG00000113494	PRLR
ENSG00000113520	IL4
ENSG00000113525	IL5
ENSG00000113578	FGF1
ENSG00000113580	NR3C1
ENSG00000113712	CSNK1A1
ENSG00000113721	PDGFRB
ENSG00000113749	HRH2
ENSG00000114013	CD86
ENSG00000114124	GRK7
ENSG00000114200	BCHE
ENSG00000114770	ABCC5
ENSG00000114859	CLCN2
ENSG00000115008	IL1A
ENSG00000115085	ZAP70

ENSG00000115159	GPD2
ENSG00000115170	ACVR1
ENSG00000115221	ITGB6
ENSG00000115232	ITGA4
ENSG00000115310	RTN4
ENSG00000115353	TACR1
ENSG00000115414	FN1
ENSG00000115486	GGCX
ENSG00000115526	CHST10
ENSG00000115590	IL1R2
ENSG00000115594	IL1R1
ENSG00000115657	ABCB6
ENSG00000115661	STK16
ENSG00000115694	STK25
ENSG00000115705	TPO
ENSG00000115758	ODC1
ENSG00000115825	PRKD3
ENSG00000115884	SDC1
ENSG00000115977	AAK1
ENSG00000116032	GRIN3B
ENSG00000116106	EPHA4
ENSG00000116141	MARK1
ENSG00000116157	GPX7
ENSG00000116329	OPRD1
ENSG00000116478	HDAC1
ENSG00000116711	PLA2G4A
ENSG00000116783	TNNI3K
ENSG00000116824	CD2
ENSG00000117013	KCNQ4
ENSG00000117020	AKT3
ENSG00000117215	PLA2G2D
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Table S3. Druggable gene name.

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CRISP2
SERPINB6
COL21A1
CRISP1
OPN5
CXCL6
SCGB1D2
SCGB2A1
WNT1
AMELX
PSPN
ATG4C
GNRH2
CST8
GFRA4
OTOR
BPIFB1
SLURP1
GPR42
KIRREL2
FLRT1
CSN1S1
STATH
HTN1
WNK4
CFP
OMG
OMD
EDN2
MASP1
EMR2
FGL2
SPINK2
CPA4
LRRC4
LRRC17
OPN1SW
TTBK2
MMP28

KLK10
ART1
PRKCSH
GDF1
BST2
BMP15
ACTN4
HRC
SMPDL3B
PNCK
HABP4
PPIL4
BPIFA2
GGT7
DEFB118
C1QL1
TEX101
EMR3
LRRC4B
TUBG1
PODNL1
NUP210
FCRLA
CNGA4
ENAM
IGJ
ITGB4
H3F3B
CLEC10A
SDF2
BCAN
HAPLN2
RTN3
GGT2
SPINK5
TMEM66
ADAMDEC1
IRAK2
REG4
WNT2B
CD101
FKBP11

ERN2
C12orf39
PRH2
CSN2
HILPDA
GDF11
TAAR5
PRADC1
GNS
KLHL36
SERPINE2
GPR45
ALDH1L2
SCYL2
PLXNC1
SLC41A2
LECT1
THSD1
ITM2B
CFC1
UGGT1
GYPC
OR1J1
ANGPTL2
DERL1
TLN1
IFNA21
CD72
BPHL
CLPS
FGFBP1
IL18BP
PI15
CGREF1
EMILIN1
ATRAID
PLA2G12B
CILP
C1RL
LRIG3
SLC39A5
TSSK4

GPR65
MFAP1
EFTUD1
DPEP3
OR4D1
SPACA3
ARSG
GALNT1
MEP1B
SECTM1
FKBP10
SAMD1
LMTK3
CACNG8
FBN3
SIGLEC10
PTH2
FCN3
CYR61
PIGK
TINAGL1
ITGA10
GPR161
CREG1
XCL1
XCL2
HMCN1
TUFT1
ECM1
ADAMTSL4
LEFTY2
WNT9A
REG3G
THNSL2
C1QL2
FBLN7
LYG1
ABCA12
ACKR2
IGSF11
UCN2
MANF

MUC4
AHSG
KLHL8
CYP4V2
ADAMTS16
CXCL14
KLHL3
SCUBE3
TTBK1
GPR6
TAAR2
TAAR8
SLC12A9
NLGN4X
RBMX
OPN1MW
NSDHL
PXDNL
PSKH2
RSPO2
CER1
PLIN2
IFNA16
LCN2
RGR
HABP2
LRRC4C
PAMR1
KLHL35
GGTLC1
ZP1
TMEM25
SOGA1
SPINT4
GPHA2
ALDOA
KLHL1
CNDP1
PLBD2
DST
UHMK1
SPOCK1

TMEM123
SPARCL1
DSPP
DMP1
C16orf89
SEMA3D
ABI3BP
LRRK1
WNT3A
OBSCN
GPR26
CXADR
CYP2U1
GPR78
VSIG4
OTOA
GPR61
TSPAN7
GDF6
CD109
BUB1B
KLHL40
C8A
TIMP4
IL34
SVOPL
GPR153
CD1C
CD1B
CD1E
CPA5
NBL1
F11R
PINK1
C1QC
CES5A
PGLYRP3
SPON2
LYPD5
FNDC5
TOR2A
NEK8

AZGP1
PGLYRP2
SCGB3A1
LYZL6
CCL16
CCL15-CCL14
KLHL10
HCRT
ALDH16A1
SIGLEC11
EMC10
OR7G1
NTN3
CYP4A22
KLHL21
MATN1
TSSK3
TM2D1
BPNT1
PIGR
FCAMR
H3F3A
BOLA3
KBTBD8
FAM19A4
APOA1BP
PROK2
FSTL1
IGFBP7
NEK10
RETNLB
FCRL4
SERPINI1
PTX3
IL17RE
PRRT3
CXCL1
PLSCR2
RYK
UCN
CDCP1
CLEC3B

SLC6A20
LIPH
MFI2
OTOP1
AIMP1
CAMKV
ETNPPL
PRSS12
HMGB2
SCRG1
AGGF1
ESM1
ENPP6
GFM2
SLC6A18
GDF9
LEAP2
GPR85
BMPER
LMTK2
HNF4G
DEFB1
GPR146
SPAG11B
CTHRC1
MAMDC2
FIGF
NLGN4Y
FAT3
GPR101
KBTBD6
UCMA
ENOX2
RNASE7
VWA2
PRAP1
GPR176
JAM3
SVOP
OPN1MW2
OR10A5
SERPINB7

SERPINB8
MFAP4
CLEC3A
SERPINB12
CHRFAM7A
GPR182
PDIA3
BPIFB6
ISLR2
CCL23
OR51E2
KLHL26
LALBA
LAIR1
LAIR2
LY6D
TMIGD2
SEMA6B
CYB5D2
GGT6
KLK11
KLK13
CD320
CD300C
CD300A
ABCA3
ULK4
VASN
KCNG4
KLHL30
SCGB1D1
GFM1
OR13J1
ENHO
JMJD7-PLA2G4B
SIGLEC7
PARM1
CXCL11
IL1RAPL1
RNASE2
RNASE3
OR4K15

HTRA4
VPREB1
GP9
NLGN1
MUC17
WNT10B
TM4SF1
TAS1R3
NLGN2
GPR25
CRTAP
CNGB3
CST1
SEMA3E
SERPINB9
HTRA3
GPR27
KBTBD2
CYTL1
OR7G2
OR1M1
OR8B12
PLAC1
PROL1
SMR3B
NETO2
CSN3
LRG1
CLCN5
SPACA5B
SPACA5
OR1L8
CLSTN1
ENC1
GPR82
DEFB4A
ANGPTL7
CYP4F22
REG1B
OR1A1
GPR22
AZU1

PRSS27
INSL5
MUCL1
KLHL6
SMPDL3A
MOS
OR4D9
CES4A
CES3
MRGPRF
LRRN3
GPR151
MMRN2
GPR148
KCNK7
C1QB
NDNF
GLIPR1L1
DAG1
RNASE8
AGR3
PEAK1
TNFRSF10D
TAS1R1
MUC13
WFIKKN2
CNP
GPR160
KLHL15
TLR10
TLR1
LINGO2
IL20RB
FGFBP3
GPR171
GPR149
CD164L2
ZG16
PDIK1L
CST6
TMEM9B
OR10P1

DPP10
CLCF1
GPR152
NR2F1
TSPEAR
LRRN1
KLHL38
OR4K17
OR4K5
TAC4
KBTBD11
OR4F17
DEFB104A
DEFB103A
FIBIN
DEFB104B
DEAF1
DEFB103B
OR2B11
CD163L1
DEFB114
OR4F4
FAM20C
PVRL3
GPR150
TSSK6
SPINK6
VN1R1
SPAG11A
TUBAL3
UCN3
AMBN
GP5
CPN2
CD300LB
LGALS7B
ALOXE3
DAND5
VWA1
FJX1
KLHL28
ALOX12B

SLITRK4
MRGPRX4
MRGPRX3
ABCA13
OR10K2
SHISA2
OR51E1
DEFB112
GPR62
HEPHL1
CCL13
FDCSP
GPR135
OR8H3
OR5AS1
OR4C16
OR4A16
ENPP7
MRGPRG
HIST2H4B
ATP6AP2
OTOL1
BGN
HIST1H3I
NXP3
OR2V2
RESP18
IGIP
GRID1
OR2T29
GPIHBP1
GPR97
GGTLC3
FREM3
PLGLB1
OR2T34
UTP11L
HIST2H3D
DGCR6
KLHL25
FAM19A1
GPR1

TUBA8
EMILIN3
OLFML1
ARSI
LRRC55
SDR42E2
HIST2H4A
NPB
OR2T10
CNTN2
LRTOMT
OR1D2
GPR173
DEFB108B
GDF3
MRGPRE
C1QTNF8
NELL2
APOO
SDR42E1
MUC6
SEMA4B
FLRT2
C6orf120
PPIL6
CDNF
NOTUM
KLHL33
SFTPA2
OLFML2A
LYG2
IFIT1
EVI2B
RTN4RL1
OR4F5
BPIFB3
BPIFB4
KLHL32
BTLA
CYP4X1
CD300E
BTN3A2

KLK12
DEFB105A
DEFB107A
DEFB106A
DEFB105B
LILRB4
SERPINA11
EMID1
GPR141
DEFB106B
SBK2
AMTN
KBTBD12
TMEM256-PLSCR3
DMBT1
OVCH1
COL14A1
KLHL17
C17orf99
OTOG
IGFL1
PLSCR1
GPR21
LCTL
IGFL3
VWC2
NYX
LPI
IL1RAPL2
S100A13
CXCL17
VN1R2
FAT4
STK40
CGB7
NLGN3
OR2T3
SLC22A25
CLPSL2
POTEI
PATE2
SLC6A17

ADAM32
HIST1H3J
OR1J2
HIST1H4J
CCL4L2
DIO3
IPP
GYPE
SPN
GZMM
MFAP5
SERPINB13
SLC22A24
OR51C1P
NMB
OR52M1
HIST4H4
PRB3
HIST1H4K
ERO1L
AADACL2
KEL
DEFB107B
BPIFA1
RPS6KL1
HIST1H4L
KLHL9
LRRTM3
EGFL6
C9orf96
NAGA
GP1BB
OR2T5
RAET1G
HIST2H3C
HIST1H3H
PNLIPRP3
HIST2H3A
DEFB110
LCN8
LRIT2
SYT15

CD300LD
NMS
OR2H2
MAS1L
OR2H1
OR11A1
OR14J1
GPR20
SPINK9
C11orf83
CD177
CCL4L1
CCL3L1
LGALS7
CDKL4
VIT
GPR56
HTN3
SERPINB11
SERPINB4
SERPINB5
RNASE13
COLQ
IGKC
IGKV4-1
IGKV5-2
IGKV2-40
IGKV1D-42
IGLV4-69
IGLV8-61
IGLV10-54
IGLV1-51
IGLV7-46
IGLV5-45
IGLV1-44
IGLV7-43
IGLV1-40
IGLV5-37
IGLV1-36
IGLV3-27
IGLV3-25
IGLV2-23

IGLV3-22
IGLV2-18
IGLV3-16
IGLV3-12
IGLV2-11
IGLV4-3
IGLC2
IGLC3
IGLC7
TRAV8-4
IGHA2
IGHG4
IGHG2
IGHD
IGHM
IGHV1-2
IGHV3-23
IGHV1-46
IGHV7-81
KLK9
NUP62
CGB8
KLHL23
NOTCH2NL
GPC2
GANC
ANG
NPS
DEFB113
GPR33
MSMP
DEFB116
DEFB115
CKLF
OR1C1
IGKV3D-15
C17orf72
C4B
IFNA14
PRB4
CYP21A2
PRH1

PSG1
MTRNR2L4
IFNA17
TAAR9
PATE4
IGKV3-20
LILRA2
C1QTNF9
IGKV1D-16
IGKV3-11
CD302
PSG2
IGKV1-39
SERPINB10
IGKV3-7
IGKV2-30
IGKV2D-29
EFNA4
IGKV1-5
LEFTY1
DDOST
IGKV3-15
MTRNR2L5
GYPB
GPR162
SEPP1
IGKV2D-40
IGKV1D-39
SERPINE3
SIGLEC12
IGLL5
OR52B2
MTRNR2L8
MTRNR2L10
MTRNR2L3
ASIC5
CCL3L3
MTRNR2L1
MTRNR2L7
RNASE4
SLC22A31
GAN

Table S4. eQTL MR results for LBP

gene id	gene name	method	nSNP	β	se	pval	
ENSG00000131475	VPS25	Inverse variance weighted	88	-0.23751435		0.028635417	1.09E-16
ENSG00000169599	NFU1	Inverse variance weighted	10	0.142261244		0.020189051	1.84E-12
ENSG00000091106	NLRC4	Inverse variance weighted	16	-0.17188169		0.025359382	1.22E-11
ENSG00000133103	COG6	Inverse variance weighted	26	-0.0711998		0.011990699	2.89E-09
ENSG00000065060	BLTP3A	Inverse variance weighted	25	0.044130588		0.007842371	1.83E-08
ENSG00000157322	CLEC18A	Inverse variance weighted	22	-0.02812304		0.005097622	3.45E-08
ENSG00000103111	MON1B	Inverse variance weighted	28	0.071878532		0.013216478	5.37E-08
ENSG00000072778	ACADVL	Inverse variance weighted	24	-0.08962989		0.01704506	1.45E-07
ENSG00000138074	SLC5A6	Inverse variance weighted	17	0.096773132		0.01859455	1.95E-07
ENSG00000127951	FGL2	Inverse variance weighted	10	-0.15089872		0.029275654	2.54E-07
ENSG00000106089	STX1A	Inverse variance weighted	7	0.168474148		0.033081154	3.53E-07
ENSG00000229515	FLT1P1	Inverse variance weighted	16	-0.05029532		0.009944467	4.25E-07
ENSG00000182196	ARL6IP4	Inverse variance weighted	10	0.19295777		0.038278022	4.63E-07
ENSG00000188428	BLOC1S5	Inverse variance weighted	14	-0.13113157		0.026263603	5.95E-07
ENSG00000204498	NFKBIL1	Inverse variance weighted	3	0.211857643		0.042789267	7.38E-07
ENSG00000171634	BPTF	Inverse variance weighted	2	0.488966309		0.099034024	7.92E-07
ENSG00000125388	GRK4	Inverse variance weighted	15	0.089451784		0.018513868	1.35E-06
ENSG00000114316	USP4	Inverse variance weighted	2	0.508541365		0.106567292	1.82E-06
ENSG00000142089	IFITM3	Inverse variance weighted	53	0.050329598		0.010556729	1.86E-06
ENSG00000181631	P2RY13	Inverse variance weighted	14	0.082592348		0.017358693	1.96E-06
ENSG00000182179	UBA7	Inverse variance weighted	16	-0.06768191		0.014232337	1.98E-06

ENSG00000184277	TM2D3	Inverse variance weighted	12	-0.13364386	0.028223195	2.19E-06
ENSG00000145022	TCTA	Inverse variance weighted	2	-0.48832747	0.103473725	2.37E-06
ENSG00000109323	MANBA	Inverse variance weighted	10	-0.13180177	0.02802651	2.57E-06
ENSG00000145354	CISD2	Inverse variance weighted	8	0.163263826	0.034723865	2.58E-06
ENSG00000141452	RMC1	Inverse variance weighted	14	-0.10141947	0.021582871	2.61E-06

Table S5. eQTL MR results for IVDD

gene id	gene name	method	nSNP	β	se	pval
ENSG00000151632	AKR1C2	Inverse variance weighted	33	-0.06255827	0.009045987	4.66E-12
ENSG00000214548	MEG3	Inverse variance weighted	20	-0.08700363	0.013452578	9.97E-11
ENSG00000091106	NLRC4	Inverse variance weighted	16	-0.14322182	0.023029704	5.00E-10
ENSG00000196821	ILRUN	Inverse variance weighted	11	0.125259154	0.020175724	5.35E-10
ENSG00000171466	ZNF562	Inverse variance weighted	3	0.463469964	0.078599182	3.71E-09
ENSG00000131475	VPS25	Inverse variance weighted	89	0.149789122	0.025541577	4.50E-09
ENSG00000204314	PRRT1	Inverse variance weighted	4	0.374813612	0.064054328	4.87E-09
ENSG00000112759	SLC29A1	Inverse variance weighted	12	0.194479031	0.033514394	6.52E-09
ENSG00000123297	TSFM	Inverse variance weighted	14	0.133519665	0.023294412	9.94E-09
ENSG00000198380	GFPT1	Inverse variance weighted	19	0.085306491	0.014898849	1.03E-08
ENSG00000185559	DLK1	Inverse variance weighted	9	-0.22902539	0.040222012	1.24E-08
ENSG00000170876	TMEM43	Inverse variance weighted	9	0.170553701	0.03007794	1.42E-08
ENSG00000106089	STX1A	Inverse variance weighted	7	0.169460128	0.030032911	1.68E-08
ENSG00000137270	GCM1	Inverse variance weighted	12	-0.1502436	0.02687454	2.26E-08
ENSG00000132323	ILKAP	Inverse variance weighted	8	0.236272102	0.042402426	2.52E-08
ENSG00000123427	EEF1AKMT3	Inverse variance weighted	24	-0.03426086	0.006199064	3.26E-08

ENSG00000124380	SNRNP27	Inverse variance weighted	17	0.089690528	0.016284726	3.64E-08
ENSG00000138030	KHK	Inverse variance weighted	26	-0.06798306	0.012385762	4.05E-08
ENSG00000182196	ARL6IP4	Inverse variance weighted	10	0.193377595	0.035872492	7.02E-08
ENSG00000135407	AVIL	Inverse variance weighted	10	-0.08403147	0.015665459	8.13E-08
ENSG00000137404	NRM	Wald ratio	1	0.684296354	0.128262908	9.55E-08
ENSG00000166260	COX11	Inverse variance weighted	20	0.08866205	0.016648524	1.01E-07
ENSG00000157593	SLC35B2	Inverse variance weighted	11	0.142901476	0.026892802	1.07E-07
ENSG00000141295	SCRN2	Inverse variance weighted	19	-0.05356447	0.010214311	1.57E-07
ENSG00000135452	TSPAN31	Inverse variance weighted	11	0.099605973	0.019000084	1.59E-07
ENSG00000141934	PLPP2	Inverse variance weighted	16	-0.10941684	0.020929245	1.71E-07
ENSG00000141469	SLC14A1	Inverse variance weighted	19	-0.0990789	0.019260428	2.69E-07
ENSG00000197136	PCNX3	Inverse variance weighted	7	0.221971325	0.043180754	2.74E-07
ENSG00000010072	SPRTN	Inverse variance weighted	9	0.184002075	0.03582908	2.81E-07
ENSG00000233429	HOTAIRM1	Inverse variance weighted	23	-0.02664984	0.005193828	2.88E-07
ENSG00000169599	NFU1	Inverse variance weighted	9	0.136904658	0.026876428	3.51E-07
ENSG00000142330	CAPN10	Inverse variance weighted	9	0.198929424	0.039161378	3.78E-07
ENSG00000084764	MAPRE3	Inverse variance weighted	6	-0.19888919	0.039455434	4.63E-07
ENSG00000105996	HOXA2	Inverse variance weighted	19	-0.09946895	0.019940603	6.09E-07
ENSG00000101181	MTG2	Inverse variance weighted	8	-0.17380122	0.034949244	6.59E-07
ENSG00000245685	FRG1-DT	Inverse variance weighted	10	0.057061933	0.011500145	6.98E-07
ENSG00000111012	CYP27B1	Wald ratio	1	-1.02382967	0.208649348	9.25E-07
ENSG00000144580	CNOT9	Inverse variance weighted	15	-0.03915916	0.008009795	1.01E-06
ENSG00000204186	ZDBF2	Wald ratio	1	0.688672053	0.141009492	1.04E-06
ENSG00000137877	SPTBN5	Inverse variance weighted	19	0.095050799	0.019763793	1.51E-06

ENSG00000127452	FBXL12	Inverse variance weighted	2	-0.31060985	0.064623052	1.54E-06
ENSG00000147454	SLC25A37	Inverse variance weighted	27	-0.05498389	0.01144236	1.55E-06
ENSG00000135913	USP37	Inverse variance weighted	3	0.225657692	0.047281231	1.82E-06
ENSG00000138028	CGREF1	Inverse variance weighted	3	-0.41372533	0.086971196	1.96E-06
ENSG00000106052	TAX1BP1	Inverse variance weighted	6	-0.29952431	0.06380576	2.68E-06

Table S6. eQTL MR results for sciatica

gene id	gene name	method	nSNP	β	se	pval
ENSG00000169599	NFU1	Inverse variance weighted	10	0.156857168	0.023454635	2.27E-11
ENSG00000182196	ARL6IP4	Inverse variance weighted	10	0.26609593	0.040337838	4.20E-11
ENSG00000168092	PAFAH1B2	Inverse variance weighted	16	0.100984132	0.016042191	3.08E-10
ENSG00000102879	CORO1A	Inverse variance weighted	7	-0.36577477	0.060402952	1.40E-09
ENSG00000125458	NT5C	Inverse variance weighted	17	0.141508989	0.023992422	3.68E-09
ENSG00000165156	ZHX1	Inverse variance weighted	8	0.537947657	0.091752924	4.55E-09
ENSG00000142089	IFITM3	Inverse variance weighted	53	0.057950546	0.00998052	6.38E-09
ENSG00000106089	STX1A	Inverse variance weighted	7	0.215610059	0.038493226	2.13E-08
ENSG00000153162	BMP6	Inverse variance weighted	13	0.202979278	0.037629228	6.88E-08
ENSG00000188612	SUMO2	Inverse variance weighted	6	-0.21591608	0.040171879	7.67E-08
ENSG00000151498	ACAD8	Inverse variance weighted	24	0.092486361	0.017552241	1.37E-07
ENSG00000102886	GDPD3	Inverse variance weighted	7	-0.23561741	0.045005159	1.65E-07
ENSG00000214548	MEG3	Inverse variance weighted	20	-0.08707474	0.016712778	1.89E-07
ENSG00000233276	GPX1	Inverse variance weighted	2	0.427839869	0.082254232	1.98E-07
ENSG00000111325	OGFOD2	Wald ratio	1	-0.91655973	0.181116298	4.18E-07
ENSG00000188428	BLOC1S5	Inverse variance weighted	14	-0.17489755	0.034880264	5.32E-07
ENSG00000204314	PRRT1	Inverse variance weighted	4	0.406244852	0.082114363	7.52E-07

ENSG00000125449	ARMC7	Inverse variance weighted	13	-0.15652144	0.032240992	1.21E-06
ENSG00000155363	MOV10	Inverse variance weighted	11	-0.162437	0.033540501	1.28E-06
ENSG00000137404	NRM	Wald ratio	1	0.788761422	0.164228437	1.56E-06
ENSG00000134815	DHX34	Inverse variance weighted	22	0.089685696	0.018717247	1.65E-06
ENSG00000165487	MICU2	Inverse variance weighted	12	0.120856031	0.025507387	2.16E-06
ENSG00000163807	KIAA1143	Inverse variance weighted	15	0.112122843	0.023716661	2.27E-06
ENSG00000134248	LAMTOR5	Inverse variance weighted	15	-0.14545918	0.030836665	2.39E-06
ENSG00000239857	GET4	Inverse variance weighted	23	0.120945926	0.025776326	2.70E-06
ENSG00000075340	ADD2	Inverse variance weighted	14	0.198214949	0.042373182	2.90E-06

Table S7. pQTL MR results for LBP

gene id	gene name	method	nSNP	β	se	pval
ENSG00000124557	BTN1A1	Inverse variance w	2	-0.16918316	0.032712376	2.31801E-07
ENSG00000130203	APOE	Inverse variance w	10	0.08616483	0.019859587	1.43327E-05

Table S8. pQTL MR results for IVDD

gene id	gene name	method	nSNP	β	se	pval
ENSG00000173402	DAG1	Wald ratio	1	-0.54038665	0.12824612	0.0000251
ENSG00000124557	BTN1A1	Inverse variance weighted	2	-0.15936229	0.031648751	0.000000477
ENSG00000172071	EIF2AK3	Wald ratio	1	-0.28259562	0.063711713	0.00000918
ENSG00000166949	SMAD3	Wald ratio	1	-0.16906421	0.034683745	0.00000109
ENSG00000197249	SERPINA1	Inverse variance weighted	2	0.257787343	0.049658215	0.000000209
ENSG00000146674	IGFBP3	Inverse variance weighted	4	0.125318116	0.022447905	2.37E-08

Table S9. pQTL MR results for sciatica

gene id	gene name	method	nSNP	β	se	pval
ENSG00000173531	MST1	Inverse variance w	4	0.067650893	0.013840903	1.01994E-06
ENSG00000173402	DAG1	Wald ratio	1	-0.78182105	0.164648707	2.05013E-06

Table S10. Candidate druggable genes for LBP, IVDD, and sciatica

gene name	outcome	n SNP	pval_MR Egger	OR_MR Egger	pval_Weighted median	OR_Weighted median	pval_IVW	OR_IVW
BPTF	LBP	2						7.92E-07 1.63 (1.34-1.98)
GRK4	LBP	14	0.36	1.04 (0.96-1.14)		4.62E-04 1.08 (1.04-1.13)		3.44E-07 1.09 (1.06-1.13)
NFKBIL1	LBP	3	0.33	1.16 (0.98-1.38)		8.77E-05 1.22 (1.10-1.34)		7.38E-07 1.24 (1.14-1.34)

P2RY13	LBP	14	0.18	1.05 (0.98-1.12)		1.77E-04	1.09 (1.04-1.14)		1.96E-06	1.09 (1.05-1.12)
SLC5A6	LBP	16	0.04	1.08 (1.01-1.17)		1.11E-03	1.08 (1.03-1.13)		6.48E-08	1.11 (1.07-1.15)
MANBA	LBP	10	0.05	0.85 (0.74-0.98)		9.34E-05	0.87 (0.82-0.93)		2.57E-06	0.88 (0.83-0.93)
STX1A	LBP	7	0.50	1.07 (0.90-1.27)		1.05E-03	1.15 (1.06-1.25)		3.53E-07	1.18 (1.11-1.26)
FGL2	LBP	10	0.13	0.92 (0.84-1.01)		9.64E-05	0.86 (0.80-0.93)		4.56E-08	0.86 (0.81-0.91)
BTN1A1	LBP	2							2.32E-07	0.84 (0.79-0.90)
APOE	LBP	10	0.43	1.04 (0.95-1.13)		3.20E-04	1.08 (1.04-1.13)		1.43E-05	1.09 (1.05-1.13)
AKR1C2	IVDD	33	0.00	0.95 (0.92-0.98)		1.63E-08	0.94 (0.92-0.96)		4.66E-12	0.94 (0.92-0.96)
CAPN10	IVDD	9	0.04	1.24 (1.04-1.47)		1.47E-05	1.25 (1.13-1.38)		3.78E-07	1.22 (1.13-1.32)
CYP27B1	IVDD	1								
DLK1	IVDD	9	0.12	0.81 (0.64-1.02)		4.28E-07	0.80 (0.73-0.87)		3.14E-11	0.80 (0.74-0.85)
ILKAP	IVDD	8	0.21	1.17 (0.94-1.45)		2.84E-04	1.22 (1.10-1.36)		2.52E-08	1.27 (1.17-1.38)
KHK	IVDD	26	0.22	0.95 (0.89-1.03)		2.84E-06	0.93 (0.90-0.96)		4.05E-08	0.93 (0.91-0.96)
MEG3	IVDD	20	0.11	0.96 (0.92-1.01)		3.73E-05	0.93 (0.90-0.96)		1.43E-12	0.92 (0.89-0.94)
SLC14A1	IVDD	18	0.11	0.95 (0.89-1.01)		1.29E-04	0.91 (0.87-0.96)		1.31E-08	0.91 (0.88-0.94)
SLC29A1	IVDD	12	0.04	1.22 (1.04-1.44)		2.05E-04	1.20 (1.09-1.32)		6.52E-09	1.21 (1.14-1.30)
GFPT1	IVDD	18	0.01	1.14 (1.05-1.24)		8.73E-09	1.12 (1.08-1.16)		8.03E-17	1.11 (1.08-1.14)
STX1A	IVDD	7	0.25	1.11 (0.95-1.30)		4.35E-05	1.18 (1.09-1.28)		1.68E-08	1.18 (1.12-1.26)
CGREF1	IVDD	3	0.33	0.51 (0.24-1.07)		2.05E-04	0.67 (0.54-0.83)		1.96E-06	0.66 (0.56-0.78)
DAG1	IVDD	1								
BTN1A1	IVDD	2							4.77E-07	0.85 (0.80-0.91)
EIF2AK3	IVDD	1								
SMAD3	IVDD	1								
SERPINA1	IVDD	1								
IGFBP3	IVDD	4	0.31	1.15 (0.94-1.40)		4.47E-08	1.13 (1.08-1.18)		2.37E-08	1.13 (1.08-1.18)
GPX1	sciatica	2							1.98E-07	1.53 (1.31-1.80)
MEG3	sciatica	20	0.41	0.97 (0.92-1.04)		7.49E-03	0.94 (0.90-0.98)		3.32E-08	0.92 (0.89-0.95)
NT5C	sciatica	17	0.01	1.20 (1.07-1.35)		1.71E-05	1.15 (1.08-1.23)		3.68E-09	1.15 (1.10-1.21)
SUMO2	sciatica	6	0.04	0.74 (0.60-0.90)		2.67E-06	0.80 (0.72-0.87)		7.67E-08	0.81 (0.74-0.87)
BMP6	sciatica	12	0.47	1.06 (0.91-1.24)		4.97E-03	1.16 (1.05-1.29)		5.08E-07	1.21 (1.12-1.31)
STX1A	sciatica	7	0.26	1.14 (0.93-1.40)		2.17E-04	1.21 (1.09-1.33)		2.13E-08	1.24 (1.15-1.34)
MST1	sciatica	4	0.30	1.05 (0.98-1.11)		5.94E-05	1.06 (1.03-1.09)		1.02E-06	1.07 (1.04-1.10)
DAG1	sciatica	1								

gene name	outcome	n SNP	pval_Weighted mode	OR_Weighted mode	pval_Simple mode	OR_Simple mode	pval_Wald ratio	OR_Wald ratio	
BPTF	LBP	2							
GRK4	LBP	14	1.05E-03	1.09 (1.05-1.13)		5.18E-02	1.11 (1.01-1.22)		
NFKBIL1	LBP	3	6.52E-02	1.21 (1.10-1.34)		1.11E-01	1.22 (1.06-1.41)		
P2RY13	LBP	14	2.46E-03	1.08 (1.04-1.13)		3.38E-02	1.07 (1.01-1.13)		
SLC5A6	LBP	16	5.81E-03	1.09 (1.03-1.15)		4.89E-02	1.08 (1.01-1.16)		
MANBA	LBP	10	4.04E-03	0.87 (0.81-0.93)		3.31E-02	0.86 (0.77-0.97)		
STX1A	LBP	7	3.12E-02	1.14 (1.04-1.26)		8.38E-02	1.14 (1.01-1.30)		
FGL2	LBP	10	4.73E-03	0.85 (0.77-0.92)		1.45E-02	0.85 (0.77-0.95)		
BTN1A1	LBP	2							
APOE	LBP	10	4.80E-03	1.08 (1.04-1.13)		1.41E-02	1.15 (1.05-1.26)		
AKR1C2	IVDD	33	1.72E-06	0.94 (0.92-0.96)		9.94E-03	0.95 (0.92-0.99)		
CAPN10	IVDD	9	5.04E-03	1.25 (1.11-1.40)		2.99E-02	1.23 (1.06-1.44)		
CYP27B1	IVDD	1						9.25E-07	0.36 (0.24-0.54)

DLK1	IVDD	9	1.46E-03 0.79 (0.72-0.87)	2.11E-03 0.77 (0.69-0.86)	
ILKAP	IVDD	8	1.26E-02 1.22 (1.08-1.37)	5.20E-02 1.22 (1.03-1.43)	
KHK	IVDD	26	9.38E-05 0.93 (0.90-0.96)	1.65E-01 0.96 (0.90-1.02)	
MEG3	IVDD	20	1.89E-02 0.95 (0.92-0.99)	2.71E-03 0.88 (0.81-0.94)	
SLC14A1	IVDD	18	1.11E-03 0.90 (0.86-0.95)	1.38E-02 0.88 (0.81-0.96)	
SLC29A1	IVDD	12	1.02E-02 1.20 (1.07-1.34)	2.97E-02 1.20 (1.04-1.39)	
GFPT1	IVDD	18	7.27E-06 1.13 (1.09-1.17)	1.19E-03 1.14 (1.07-1.22)	
STX1A	IVDD	7	1.05E-02 1.19 (1.08-1.30)	1.87E-02 1.22 (1.08-1.37)	
CGREF1	IVDD	3	5.34E-02 0.63 (0.50-0.78)	1.50E-01 0.72 (0.54-0.95)	
DAG1	IVDD	1			2.51E-05 0.58 (0.45-0.75)
BTN1A1	IVDD	2			
EIF2AK3	IVDD	1			9.18E-06 0.75 (0.67-0.85)
SMAD3	IVDD	1			1.09E-06 0.84 (0.79-0.90)
SERPINA1	IVDD	1			2.09E-07 1.29 (1.17-1.43)
IGFBP3	IVDD	4	1.26E-02 1.13 (1.08-1.18)	1.89E-01 1.08 (0.99-1.19)	
GPX1	sciatica	2			
MEG3	sciatica	20	6.69E-03 0.93 (0.89-0.98)	8.64E-02 0.92 (0.83-1.01)	
NTSC	sciatica	17	3.23E-04 1.16 (1.09-1.24)	3.24E-02 1.12 (1.02-1.22)	
SUMO2	sciatica	6	1.04E-02 0.79 (0.70-0.89)	8.32E-02 0.84 (0.71-0.98)	
BMP6	sciatica	12	7.40E-02 1.15 (1.00-1.32)	1.58E-01 1.16 (0.96-1.39)	
STX1A	sciatica	7	1.59E-02 1.20 (1.08-1.34)	3.00E-02 1.22 (1.06-1.40)	
MST1	sciatica	4	4.09E-02 1.06 (1.03-1.10)	6.07E-02 1.06 (1.02-1.11)	
DAG1	sciatica	1			2.05E-06 0.46 (0.33-0.63)

gene name	outcome	nsnp	Q_pval	MR Egger_pval
BPTF	LBP	2		
GRK4	LBP	14	0.34	0.25
NFKBIL1	LBP	3	0.46	0.57
P2RY13	LBP	14	0.48	0.23
SLC5A6	LBP	16	0.84	0.53
MANBA	LBP	10	0.66	0.64
STX1A	LBP	7	0.58	0.26
FGL2	LBP	10	0.34	0.10
BTN1A1	LBP	2		
APOE	LBP	10	0.74	0.23
AKR1C2	IVDD	33	0.72	0.50
CAPN10	IVDD	9	0.41	0.84
CYP27B1	IVDD	1		
DLK1	IVDD	9	0.21	0.91
ILKAP	IVDD	8	0.86	0.47
KHK	IVDD	26	0.51	0.57
MEG3	IVDD	20	0.25	0.04
SLC14A1	IVDD	18	0.15	0.12
SLC29A1	IVDD	12	0.92	0.93
GFPT1	IVDD	18	0.22	0.56
STX1A	IVDD	7	0.54	0.42
CGREF1	IVDD	3	0.74	0.61
DAG1	IVDD	1		
BTN1A1	IVDD	2		

EIF2AK3	IVDD	1		
SMAD3	IVDD	1		
SERPINA1	IVDD	1		
IGFBP3	IVDD	4	0.19	0.92
GPX1	sciatica	2		
MEG3	sciatica	20	0.32	0.04
NT5C	sciatica	17	0.53	0.46
SUMO2	sciatica	6	0.80	0.38
BMP6	sciatica	12	0.59	0.09
STX1A	sciatica	7	0.60	0.42
MST1	sciatica	4	0.80	0.52
DAG1	sciatica	1		

Table S11. Phenome-wide MR results

Phenotype	Collapsing model	Phenotypic category	P value	No. samples	Effect size	Effect size standard error
1072#1906#NT5C#Q8						
TCD5#OID30294#v1#	flexdmg	Proteomics	2.4E-37	45616	-1.53	0.12
CardiometabolicII						
1072#1906#NT5C#Q8	flexnonsymm	Proteomics	2.6E-19	45616	-1.23	0.14
TCD5#OID30294#v1#	tr					
CardiometabolicII						
1072#1906#NT5C#Q8	ptv	Proteomics	1.3E-11	45616	-1.25	0.18
TCD5#OID30294#v1#						
CardiometabolicII						
1072#1906#NT5C#Q8	ptv5pcent	Proteomics	1.3E-11	45616	-1.25	0.18
TCD5#OID30294#v1#						
CardiometabolicII						
1072#1906#NT5C#Q8	ptvraredmg	Proteomics	2.4E-37	45616	-1.53	0.12
TCD5#OID30294#v1#						
CardiometabolicII						
1072#1906#NT5C#Q8	raredmg	Proteomics	2.4E-27	45616	-1.76	0.16
TCD5#OID30294#v1#						
CardiometabolicII						