

NIH Blueprint Non-Human Primate Atlas

TECHNICAL WHITE PAPER: HUMAN TO MACAQUE GENE SYMBOL MAPPING

This document is a guide for cross referencing human gene symbols to macaque gene symbols. NCBI HomoloGene was utilized to map macaque gene symbols to human gene symbols per RefSeq 53 HomoloGene groups.

An Excel file of this document is available for downloading (at <http://download.alleninstitute.org:80/nhp/>).

Table 1: Gene symbol mapping.

Macaque Gene Symbol	Macaque Entrez Gene ID	Human Gene Symbol	Human Entrez Gene ID
76P	710327	TUBGCP4	27229
A1BG	712737	A1BG	1
A1CF	703806	A1CF	29974
A2LD1	706006	A2LD1	87769
A2M	716834	A2M	2
A2ML1	716616	A2ML1	144568
A4GALT	710998	A4GALT	53947
A4GNT	716512	A4GNT	51146
AACS	707015	AACS	65985
AADAC	709031	AADAC	13
AADACL2	709222	AADACL2	344752
AADACL4	715600	AADACL4	343066
AADAT	695264	AADAT	51166
AAMP	700763	AAMP	14
AANAT	706924	AANAT	15
AARS	709492	AARS	16
AARS2	702626	AARS2	57505
AASDH	695946	AASDH	132949
AASDHPPT	100328983	AASDHPPT	60496
AASS	694594	AASS	10157
AATF	717586	AATF	26574
AATK	718525	AATK	9625
ABCA12	694427	ABCA12	26154

ABCA2	721631	ABCA2	20
ABCA3	696496	ABCA3	21
ABCA4	714054	ABCA4	24
ABCA5	693795	ABCA5	23461
ABCA6	693529	ABCA6	23460
ABCA7	704976	ABCA7	10347
ABCA8	693289	ABCA8	10351
ABCA9	693411	ABCA9	10350
ABCB1	574235	ABCB1	5243
ABCB10	574117	ABCB10	23456
ABCB11	709261	ABCB11	8647
ABCB6	704599	ABCB6	10058
ABCB7	704034	ABCB7	22
ABCB8	714341	ABCB8	11194
ABCB9	707709	ABCB9	23457
ABCC10	700156	ABCC10	89845
ABCC11	716552	ABCC11	85320
ABCC12	716513	ABCC12	94160
ABCC2	574169	ABCC2	1244
ABCC3	706339	ABCC3	8714
ABCC5	704326	ABCC5	10057
ABCC8	654490	ABCC8	6833
ABCC9	654489	ABCC9	10060
ABCD1	696794	ABCD1	215
ABCD2	697556	ABCD2	225
ABCD3	709188	ABCD3	5825
ABCD4	699380	ABCD4	5826
ABCE1	701945	ABCE1	6059
ABCF1	711864	ABCF1	23
ABCF2	714518	ABCF2	10061
ABCF3	703319	ABCF3	55324
ABCG2	574307	ABCG2	9429
ABCG5	713610	ABCG5	64240
ABCG8	713676	ABCG8	64241

ABHD1	698700	ABHD1	84696
ABHD10	707464	ABHD10	55347
ABHD12	705915	ABHD12	26090
ABHD12B	706758	ABHD12B	145447
ABHD14A	698851	ACY1	95
ABHD14B	698910	ABHD14B	84836
ABHD15	711493	ABHD15	116236
ABHD16A	716051	ABHD16A	7920
ABHD16B	695048	ABHD16B	140701
ABHD2	699258	ABHD2	11057
ABHD4	711758	ABHD4	63874
ABHD5	716821	ABHD5	51099
ABHD6	702384	ABHD6	57406
ABHD8	718980	ABHD8	79575
ABI1	707698	ABI1	10006
ABI2	704956	ABI2	10152
ABI3	698710	ABI3	51225
ABL2	717037	ABL2	27
ABLIM2	722653	ABLIM2	84448
ABO	722252	ABO	28
ABP1	714112	ABP1	26
ABRA	696780	ABRA	137735
ABRACL	708266	ABRACL	58527
ABT1	700856	ABT1	29777
ACAA1	696743	ACAA1	30
ACAA2	709350	ACAA2	10449
ACACA	714218	ACACA	31
ACACB	706909	ACACB	32
ACAD10	711080	ACAD10	80724
ACAD8	677723	ACAD8	27034
ACAD9	704527	ACAD9	28976
ACADM	705168	ACADM	34
ACADS	698196	ACADS	35
ACADSB	707487	ACADSB	36

ACAN	698498	ACAN	176
ACAP1	721824	ACAP1	9744
ACAP2	705403	ACAP2	23527
ACAP3	704910	ACAP3	116983
ACAT1	707653	ACAT1	38
ACAT2	708750	ACAT2	39
ACBD3	699311	ACBD3	64746
ACBD6	716418	ACBD6	84320
ACBD7	703039	ACBD7	414149
ACCN2	713320	ASIC1	41
ACCN3	714396	ASIC3	9311
ACCN5	699617	ASIC5	51802
ACCS	715798	ACCS	84680
ACCSL	715835	ACCSL	390110
ACD	699230	ACD	65057
ACE2	712790	ACE2	59272
ACER1	699093	ACER1	125981
ACER3	697832	ACER3	55331
ACHE	713370	ACHE	43
ACIN1	713310	ACIN1	22985
ACLY	708501	ACLY	47
ACMSD	708917	ACMSD	130013
ACN9	697593	ACN9	57001
ACO1	705075	ACO1	48
ACO2	707441	ACO2	50
ACOT11	715263	ACOT11	26027
ACOT12	711665	ACOT12	134526
ACOT13	100335133	ACOT13	55856
ACOT2	697011	ACOT2	10965
ACOT4	697131	ACOT4	122970
ACOT6	697174	ACOT6	641372
ACOT7	703288	ACOT7	11332
ACOT8	717238	ACOT8	10005
ACOT9	697759	ACOT9	23597

ACOX1	705197	ACOX1	51
ACOX2	701565	ACOX2	8309
ACOX3	722634	ACOX3	8310
ACP2	713744	ACP2	53
ACP5	715071	ACP5	54
ACP6	710431	ACP6	51205
ACPL2	715229	ACPL2	92370
ACPP	717786	ACPP	55
ACPT	719401	ACPT	93650
ACR	716579	ACR	49
ACRBP	713219	ACRBP	84519
ACRC	698393	ACRC	93953
ACSBG2	698717	ACSBG2	81616
ACSF2	702474	ACSF2	80221
ACSL1	694871	ACSL1	2180
ACSL3	706050	ACSL3	2181
ACSL4	704908	ACSL4	2182
ACSM1	696498	ACSM1	116285
ACSM2B	696244	ACSM2B	348158
ACSM3	696622	ACSM3	6296
ACSM4	722167	ACSM4	341392
ACSM5	696124	ACSM5	54988
ACSS1	705060	ACSS1	84532
ACSS2	706703	ACSS2	55902
ACTA1	100426612	ACTA1	58
ACTA2	100427024	ACTA2	59
ACTB	574285	ACTB	60
ACTBL2	708642	ACTBL2	345651
ACTC1	697367	ACTC1	70
ACTG1	713687	ACTG1	71
ACTG2	707447	ACTG2	72
ACTL6A	708935	ACTL6A	86
ACTL6B	712643	ACTL6B	51412
ACTL7A	710653	ACTL7A	10881

ACTL7B	710750	ACTL7B	10880
ACTL8	701280	ACTL8	81569
ACTL9	708303	ACTL9	284382
ACTN2	710012	ACTN2	88
ACTN3	713811	ACTN3	89
ACTN4	693666	ACTN4	81
ACTR1A	713513	ACTR1A	10121
ACTR1B	707328	ACTR1B	10120
ACTR2	697080	ACTR2	10097
ACTR3B	715965	ACTR3B	57180
ACTR5	698191	ACTR5	79913
ACTR6	695055	ACTR6	64431
ACTR8	693539	ACTR8	93973
ACTRT2	711475	ACTRT2	140625
ACVR1	697935	ACVR1	90
ACVR1B	696587	ACVR1B	91
ACVR1C	697826	ACVR1C	130399
ACVR2A	707017	ACVR2A	92
ACVR2B	696071	ACVR2B	93
ACVRL1	696471	ACVRL1	94
ACY3	711083	ACY3	91703
ACYP1	697471	ACYP1	97
ADA	717897	ADA	100
ADAD1	707910	ADAD1	132612
ADAL	710148	ADAL	161823
ADAM10	701355	ADAM10	102
ADAM11	100430916	ADAM11	4185
ADAM12	696405	ADAM12	8038
ADAM17	694429	ADAM17	6868
ADAM18	701958	ADAM18	8749
ADAM19	715164	ADAM19	8728
ADAM2	707303	ADAM2	2515
ADAM20	715827	ADAM20	8748
ADAM21	715640	ADAM21	8747

ADAM22	705350	ADAM22	53616
ADAM23	707757	ADAM23	8745
ADAM29	698113	ADAM29	11086
ADAM30	713727	ADAM30	11085
ADAM32	706797	ADAM32	203102
ADAM8	100428452	ADAM8	101
ADAM9	701124	ADAM9	8754
ADAMDEC1	711034	ADAMDEC1	27299
ADAMTS1	707778	ADAMTS1	9510
ADAMTS10	708107	ADAMTS10	81794
ADAMTS12	701750	ADAMTS12	81792
ADAMTS14	710154	ADAMTS14	140766
ADAMTS15	715608	ADAMTS15	170689
ADAMTS16	694474	ADAMTS16	170690
ADAMTS17	693447	ADAMTS17	170691
ADAMTS19	705362	ADAMTS19	171019
ADAMTS2	713532	ADAMTS2	9509
ADAMTS20	699935	ADAMTS20	80070
ADAMTS3	705473	ADAMTS3	9508
ADAMTS4	719927	ADAMTS4	9507
ADAMTS5	707672	ADAMTS5	11096
ADAMTS6	696021	ADAMTS6	11174
ADAMTS7	711193	ADAMTS7	11173
ADAMTS8	718962	ADAMTS8	11095
ADAMTS9	698341	ADAMTS9	56999
ADAMTSL4	715768	ADAMTSL4	54507
ADAMTSL5	721290	ADAMTSL5	339366
ADAP1	696246	ADAP1	11033
ADAP2	713749	ADAP2	55803
ADAR	718759	ADAR	103
ADARB1	722016	ADARB1	104
ADAT1	712066	ADAT1	23536
ADAT2	700860	ADAT2	134637
ADC	709823	ADC	113451

ADCK1	707060	ADCK1	57143
ADCK2	693303	ADCK2	90956
ADCK3	697920	ADCK3	56997
ADCK4	702379	ADCK4	79934
ADCK5	100425836	ADCK5	203054
ADCY1	697230	ADCY1	107
ADCY10	698566	ADCY10	55811
ADCY2	695328	ADCY2	108
ADCY3	693523	ADCY3	109
ADCY5	715897	ADCY5	111
ADCY6	707978	ADCY6	112
ADCY7	694730	ADCY7	113
ADCY8	695792	ADCY8	114
ADCYAP1R1	695483	ADCYAP1R1	117
ADD1	700805	ADD1	118
ADD2	702939	ADD2	119
ADD3	677712	ADD3	120
ADH1A	707682	ADH1A	124
ADH1B	707908	ADH1B	125
ADH1C	711061	ADH1C	126
ADH4	707367	ADH4	127
ADH5	707258	ADH5	128
ADH6	707585	ADH6	130
ADH7	708520	ADH7	131
ADHFE1	703118	ADHFE1	137872
ADIG	698691	ADIG	149685
ADIPOQ	574212	ADIPOQ	9370
ADIPOR1	704626	ADIPOR1	51094
ADIPOR2	707547	ADIPOR2	79602
ADK	705246	ADK	132
ADM	703305	ADM	133
ADM2	720666	ADM2	79924
ADNP	701422	ADNP	23394
ADNP2	718342	ADNP2	22850

ADO	698259	ADO	84890
ADORA1	703638	ADORA1	134
ADORA2A	707865	ADORA2A	135
ADORA2B	696848	ADORA2B	136
ADPGK	699257	ADPGK	83440
ADPRH	712562	ADPRH	141
ADPRHL2	712758	ADPRHL2	54936
ADRA1A	712509	ADRA1A	148
ADRA1B	695106	ADRA1B	147
ADRA1D	100430996	ADRA1D	146
ADRA2A	695684	ADRA2A	150
ADRA2B	694825	ADRA2B	151
ADRB2	710146	ADRB2	154
ADRB3	699129	ADRB3	155
ADRBK1	721754	ADRBK1	156
ADRBK2	714510	ADRBK2	157
ADRM1	699928	ADRM1	11047
ADSS	713580	ADSS	159
AFAP1L1	709282	AFAP1L1	134265
AFAP1L2	698518	AFAP1L2	84632
AFF1	700733	AFF1	4299
AFF2	700758	AFF2	2334
AFG3L2	703079	AFG3L2	10939
AFP	704786	AFP	174
AFTPH	696100	AFTPH	54812
AGA	699740	AGA	175
AGAP1	693652	AGAP1	116987
AGAP2	715504	AGAP2	116986
AGAP3	714140	AGAP3	116988
AGBL1	699665	AGBL1	123624
AGBL3	707147	AGBL3	340351
AGBL4	711073	AGBL4	84871
AGBL5	697940	AGBL5	60509
AGER	717296	AGER	177

AGFG1	708910	AGFG1	3267
AGGF1	707686	AGGF1	55109
AGK	694070	AGK	55750
AGL	710910	AGL	178
AGMO	709963	AGMO	392636
AGPAT1	717174	AGPAT1	10554
AGPAT2	709753	AGPAT2	10555
AGPAT5	716847	AGPAT5	55326
AGPHD1	710329	AGPHD1	123688
AGPS	702139	AGPS	8540
AGR2	709127	AGR2	10551
AGR3	714517	AGR3	155465
AGRN	700400	AGRN	375790
AGRP	698479	AGRP	181
AGT	714203	AGT	183
AGTPBP1	709949	AGTPBP1	23287
AGTR1	712773	AGTR1	185
AGTR2	709513	AGTR2	186
AGTRAP	722746	AGTRAP	57085
AGXT	699941	AGXT	189
AGXT2	699250	AGXT2	64902
AGXT2L1	696880	AGXT2L1	64850
AGXT2L2	702302	AGXT2L2	85007
AHCTF1	702705	AHCTF1	25909
AHCY	698344	AHCY	191
AHCYL1	700681	AHCYL1	10768
AHCYL2	703491	AHCYL2	23382
AHI1	706412	AHI1	54806
AHNAK	718802	AHNAK	79026
AHR	714254	AHR	196
AHRR	723045	AHRR	57491
AHSA1	706547	AHSA1	10598
AHSG	699348	AHSG	197
AHSP	714392	AHSP	51327

AIF1	574115	AIF1	199
AIF1L	715655	AIF1L	83543
AIFM1	702773	AIFM1	9131
AIFM2	711037	AIFM2	84883
AIFM3	100430573	AIFM3	150209
AIG1	700988	AIG1	51390
AIM1	697117	AIM1	202
AIM2	719260	AIM2	9447
AIP	711814	AIP	9049
AIPL1	574331	AIPL1	23746
AIRE	712858	AIRE	326
AK1	706338	AK1	203
AK2	709737	AK2	204
AK3	694714	AK3	50808
AK4	698560	AK4	205
AK5	706248	AK5	26289
AK7	704250	AK7	122481
AK8	714698	AK8	158067
AKAP1	708500	AKAP1	8165
AKAP10	710970	AKAP10	11216
AKAP11	702787	AKAP11	11215
AKAP12	641446	AKAP12	9590
AKAP13	698172	AKAP13	11214
AKAP14	694769	AKAP14	158798
AKAP17A	693468	AKAP17A	8227
AKAP2	709841	PALM2-AKAP2	445815
AKAP3	711162	AKAP3	10566
AKAP5	707162	AKAP5	9495
AKAP6	717455	AKAP6	9472
AKAP7	710509	AKAP7	9465
AKAP8	719181	AKAP8	10270
AKAP8L	719202	AKAP8L	26993
AKAP9	702970	AKAP9	10142
AKNA	708252	AKNA	80709

AKNAD1	696199	AKNAD1	254268
AKR1A1	693380	AKR1A1	10327
AKR1B1	705957	AKR1B1	231
AKR1B10	706187	AKR1B10	57016
AKR1C1	711198	AKR1C2	1646
AKR1C1	711198	AKR1C1	1645
AKR1C3	711440	AKR1C3	8644
AKR1C4	711360	AKR1C4	1109
AKR1D1	709863	AKR1D1	6718
AKR1E2	711035	AKR1E2	83592
AKR7A2	703051	AKR7A2	8574
AKR7A3	715583	AKR7A3	22977
AKT1	697747	AKT1	207
AKT2	700591	AKT2	208
AKT3	714717	AKT3	10000
AKTIP	697107	AKTIP	64400
ALAD	705193	ALAD	210
ALAS1	698093	ALAS1	211
ALAS2	704727	ALAS2	212
ALB	704892	ALB	213
ALCAM	703777	ALCAM	214
ALDH18A1	703357	ALDH18A1	5832
ALDH1A1	702598	ALDH1A1	216
ALDH1A2	702235	ALDH1A2	8854
ALDH1A3	694231	ALDH1A3	220
ALDH1B1	716092	ALDH1B1	219
ALDH1L1	716977	ALDH1L1	10840
ALDH1L2	701242	ALDH1L2	160428
ALDH2	713451	ALDH2	217
ALDH3A1	703870	ALDH3A1	218
ALDH3A2	703661	ALDH3A2	224
ALDH3B1	710746	ALDH3B1	221
ALDH5A1	707902	ALDH5A1	7915
ALDH6A1	698755	ALDH6A1	4329

ALDH7A1	702749	ALDH7A1	501
ALDOA	708406	ALDOA	226
ALDOB	713818	ALDOB	229
ALDOC	709213	ALDOC	230
ALG10B	696470	ALG10B	144245
ALG2	714850	ALG2	85365
ALG3	703087	ALG3	10195
ALG5	694836	ALG5	29880
ALG6	696323	ALG6	29929
ALG9	710567	ALG9	79796
ALKBH1	706760	ALKBH1	8846
ALKBH2	706708	ALKBH2	121642
ALKBH4	715078	ALKBH4	54784
ALKBH5	700205	ALKBH5	54890
ALKBH7	699343	ALKBH7	84266
ALKBH8	706917	ALKBH8	91801
ALLC	707445	ALLC	55821
ALMS1	706612	ALMS1	7840
ALOX12	713748	ALOX12	239
ALOX15	709212	ALOX15	246
ALOX15B	716764	ALOX15B	247
ALOX5	707926	ALOX5	240
ALOX5AP	713170	ALOX5AP	241
ALPK1	700993	ALPK1	80216
ALPL	717809	ALPL	249
ALS2	703263	ALS2	57679
ALS2CL	712772	ALS2CL	259173
ALS2CR11	702140	ALS2CR11	151254
ALS2CR12	701657	ALS2CR12	130540
ALS2CR4	702262	TMEM237	65062
ALX3	700927	ALX3	257
ALX4	715652	ALX4	60529
AMACR	698365	AMACR	23600
AMBN	706845	AMBN	258

AMBP	704425	AMBP	259
AMBRA1	714434	AMBRA1	55626
AMELX	710057	AMELX	265
AMHR2	702822	AMHR2	269
AMICA1	704919	AMICA1	120425
AMIGO1	698932	AMIGO1	57463
AMIGO2	705386	AMIGO2	347902
AMIGO3	705693	AMIGO3	386724
AMMECR1	705858	AMMECR1	9949
AMN1	695467	AMN1	196394
AMOT	707701	AMOT	154796
AMOTL2	718868	AMOTL2	51421
AMPD1	708801	AMPD1	270
AMPD2	699561	AMPD2	271
AMPD3	703186	AMPD3	272
AMPH	704559	AMPH	273
AMT	706515	AMT	275
AMTN	707054	AMTN	401138
AMY2A	713027	AMY2A	279
AMY2B	712893	AMY2A	279
AMZ1	699727	AMZ1	155185
ANAPC10	701694	ANAPC10	10393
ANAPC11	714909	ANAPC11	51529
ANAPC13	717294	ANAPC13	25847
ANAPC15	718333	ANAPC15	25906
ANAPC16	709147	ANAPC16	119504
ANAPC2	706384	ANAPC2	29882
ANAPC4	694006	ANAPC4	29945
ANAPC7	709012	ANAPC7	51434
ANGEL1	705043	ANGEL1	23357
ANGPT1	697017	ANGPT1	284
ANGPT2	716811	ANGPT2	285
ANGPT4	715213	ANGPT4	51378
ANGPTL2	701444	ANGPTL2	23452

ANGPTL3	695499	ANGPTL3	27329
ANGPTL5	702036	ANGPTL5	253935
ANGPTL7	714204	ANGPTL7	10218
ANK1	710904	ANK1	286
ANK2	702180	ANK2	287
ANK3	699518	ANK3	288
ANKAR	709552	ANKAR	150709
ANKDD1A	712746	ANKDD1A	348094
ANKFY1	708297	ANKFY1	51479
ANKH	717689	ANKH	56172
ANKHD1	698045	ANKHD1-EIF4EBP3	404734
ANKIB1	703273	ANKIB1	54467
ANKLE1	719709	ANKLE1	126549
ANKLE2	698529	ANKLE2	23141
ANKMY1	698447	ANKMY1	51281
ANKMY2	709414	ANKMY2	57037
ANKRA2	703691	ANKRA2	57763
ANKRD1	696653	ANKRD1	27063
ANKRD10	695300	ANKRD10	55608
ANKRD11	698722	ANKRD11	29123
ANKRD13A	708383	ANKRD13A	88455
ANKRD13B	711735	ANKRD13B	124930
ANKRD13C	702811	ANKRD13C	81573
ANKRD17	704999	ANKRD17	26057
ANKRD2	707097	ANKRD2	26287
ANKRD22	694240	ANKRD22	118932
ANKRD28	100428048	ANKRD28	23243
ANKRD29	706681	ANKRD29	147463
ANKRD31	711064	ANKRD31	256006
ANKRD32	701994	ANKRD32	84250
ANKRD33	696211	ANKRD33	341405
ANKRD33B	697244	ANKRD33B	651746
ANKRD34B	711025	ANKRD34B	340120
ANKRD34C	711918	ANKRD34C	390616

ANKRD40	706451	ANKRD40	91369
ANKRD44	696592	ANKRD44	91526
ANKRD45	706697	ANKRD45	339416
ANKRD46	705491	ANKRD46	157567
ANKRD49	697693	ANKRD49	54851
ANKRD5	718476	ANKRD5	63926
ANKRD50	709327	ANKRD50	57182
ANKRD52	709518	ANKRD52	283373
ANKRD53	703757	ANKRD53	79998
ANKRD56	699245	SOWAHB	345079
ANKRD58	694278	SOWAHD	347454
ANKRD6	701339	ANKRD6	22881
ANKRD60	699646	ANKRD60	140731
ANKRD9	693496	ANKRD9	122416
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ANKS1B	694033	ANKS1B	56899
ANKS4B	697713	ANKS4B	257629
ANKS6	715178	ANKS6	203286
ANKZF1	702461	ANKZF1	55139
ANLN	706404	ANLN	54443
ANO2	722012	ANO2	57101
ANO3	700072	ANO3	63982
ANO4	695973	ANO4	121601
ANO6	701540	ANO6	196527
ANO7	700819	ANO7	50636
ANP32A	694356	ANP32A	8125
ANP32B	715508	ANP32B	10541
ANPEP	701117	ANPEP	290
ANTXR2	696513	ANTXR2	118429
ANUBL1	708136	ZFAND4	93550
ANXA1	702946	ANXA1	301
ANXA10	693439	ANXA10	11199
ANXA11	707628	ANXA11	311
ANXA13	705013	ANXA13	312

ANXA2	706240	ANXA2	302
ANXA3	697239	ANXA3	306
ANXA4	701433	ANXA4	307
ANXA5	706941	ANXA5	308
ANXA6	711612	ANXA6	309
ANXA7	707166	ANXA7	310
ANXA8	694628	ANXA8L1	728113
ANXA8	694628	ANXA8L2	244
ANXA8	694628	ANXA8	653145
ANXA9	708704	ANXA9	8416
AOAH	706291	AOAH	313
AOC2	100431015	AOC2	314
AOC3	711820	AOC3	8639
AP1AR	700734	AP1AR	55435
AP1B1	714638	AP1B1	162
AP1G1	710171	AP1G1	164
AP1G2	714237	AP1G2	8906
AP1M1	718605	AP1M1	8907
AP1S2	713244	AP1S2	8905
AP2A1	719038	AP2A1	160
AP2A2	720875	AP2A2	161
AP2M1	703554	AP2M1	1173
AP2S1	716911	AP2S1	1175
AP3B1	708754	AP3B1	8546
AP3B2	694091	AP3B2	8120
AP3D1	100430853	AP3D1	8943
AP3M1	705729	AP3M1	26985
AP3M2	704358	AP3M2	10947
AP3S1	696644	AP3S1	1176
AP3S2	701217	AP3S2	10239
AP4B1	707634	AP4B1	10717
AP4E1	693444	AP4E1	23431
AP4M1	710944	AP4M1	9179
APAF1	694164	APAF1	317

APBA3	713752	APBA3	9546
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APBB2	701342	APBB2	323
APBB3	698296	APBB3	10307
APC2	707345	APC2	10297
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APEH	705948	APEH	327
APEX1	702757	APEX1	328
APEX2	702084	APEX2	27301
APH1A	706483	APH1A	51107
APH1B	705718	APH1B	83464
API5	716346	API5	8539
APLF	705875	APLF	200558
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APLP1	711258	APLP1	333
APLP2	718819	APLP2	334
APOA1	696969	APOA1	335
APOA2	719946	APOA2	336
APOA4	702424	APOA4	337
APOA5	696484	APOA5	116519
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APOBEC1	715554	APOBEC1	339
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APOE	714623	APOE	348

APOF	712761	APOF	319
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APOO	698137	APOO	79135
APOOL	693763	APOOL	139322
APPBP2	716680	APPBP2	10513
APRT	697715	APRT	353
APTX	702671	APTX	54840
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AQP3	702721	AQP3	360
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AQP8	702167	AQP8	343
AQP9	700743	AQP9	366
AQPEP	696886	AQPEP	206338
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AR	574293	AR	367
ARAF	707169	ARAF	369
ARAP1	718488	ARAP1	116985
ARAP2	702115	ARAP2	116984
ARAP3	701400	ARAP3	64411
ARCN1	700328	ARCN1	372
AREGB	702396	AREGB	727738
AREGB	702396	AREG	374
ARF1	696052	ARF1	375
ARF4	703432	ARF4	378
ARF5	709254	ARF5	381
ARF6	708170	ARF6	382
ARFGAP1	719734	ARFGAP1	55738
ARFGAP2	713871	ARFGAP2	84364

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ARG1	710410	ARG1	383
ARG2	711033	ARG2	384
ARGLU1	702840	ARGLU1	55082
ARHGAP1	712798	ARHGAP1	392
ARHGAP10	708458	ARHGAP10	79658
ARHGAP11A	695823	ARHGAP11A	9824
ARHGAP12	696402	ARHGAP12	94134
ARHGAP15	705311	ARHGAP15	55843
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ARHGAP42	703141	ARHGAP42	143872
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ARHGAP9	711684	ARHGAP9	64333
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ARHGDIB	702320	ARHGDIB	397
ARHGDIG	722292	ARHGDIG	398
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ARHGEF12	712096	ARHGEF12	23365
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ARHGEF17	718644	ARHGEF17	9828
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ARHGEF2	719369	ARHGEF2	9181
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ARHGEF40	707301	ARHGEF40	55701
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ARID2	703823	ARID2	196528
ARID3A	704435	ARID3A	1820
ARID3B	702404	ARID3B	10620
ARID3C	700584	ARID3C	138715
ARID4A	702688	ARID4A	5926
ARID4B	718320	ARID4B	51742
ARID5B	698639	ARID5B	84159
ARL10	696524	ARL10	285598
ARL11	706725	ARL11	115761
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ARL13B	694959	ARL13B	200894
ARL14	702282	ARL14	80117
ARL15	707840	ARL15	54622

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ARL4A	693302	ARL4A	10124
ARL4C	715121	ARL4C	10123
ARL4D	709167	ARL4D	379
ARL5B	701595	ARL5B	221079
ARL6	696616	ARL6	84100
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ARMC4	709047	ARMC4	55130
ARMC5	715103	ARMC5	79798
ARMC7	700833	ARMC7	79637
ARMC8	716388	ARMC8	25852
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ARMCX2	704263	ARMCX2	9823
ARMCX3	704035	ARMCX3	51566
ARMCX5	100427780	ARMCX5	64860
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ARPC2	700536	ARPC2	10109
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ARPP21	707139	ARPP21	10777
ARR3	696939	ARR3	407
ARRB2	709399	ARRB2	409
ARRDC1	721003	ARRDC1	92714
ARRDC2	719299	ARRDC2	27106

ARRDC3	695903	ARRDC3	57561
ARRDC4	708023	ARRDC4	91947
ARSA	716500	ARSA	410
ARSB	709136	ARSB	411
ARSD	704070	ARSD	414
ARSE	720575	ARSE	415
ARSF	705983	ARSF	416
ARSH	720580	ARSH	347527
ARSI	712077	ARSI	340075
ARSJ	702633	ARSJ	79642
ARSK	698368	ARSK	153642
ART1	718154	ART1	417
ART3	100424030	ART3	419
ART4	699934	ART4	420
ART5	574238	ART5	116969
ARTN	701641	ARTN	9048
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ARX	699892	ARX	170302
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ASAH1	703699	ASAH1	427
ASAH2	703913	ASAH2	56624
ASAP1	695681	ASAP1	50807
ASAP2	699774	ASAP2	8853
ASB1	696716	ASB1	51665
ASB11	712435	ASB11	140456
ASB13	712298	ASB13	79754
ASB14	704231	ASB14	142686
ASB15	695656	ASB15	142685
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ASB3	716503	GPR75-ASB3	100302652
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ASB8	705435	ASB8	140461
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ASCC2	715117	ASCC2	84164
ASCC3	695429	ASCC3	10973
ASCL1	698820	ASCL1	429
ASCL3	705072	ASCL3	56676
ASCL4	704632	ASCL4	121549
ASF1A	714761	ASF1A	25842
ASH2L	699382	ASH2L	9070
ASMT	574350	ASMT	438
ASNS	697232	ASNS	440
ASNSD1	709388	ASNSD1	54529
ASPA	706170	ASPA	443
ASPH	699884	ASPH	444
ASPHD2	712623	ASPHD2	57168
ASPM	711153	ASPM	259266
ASPRV1	701904	ASPRV1	151516
ASRGL1	718871	ASRGL1	80150
ASS1	702037	ASS1	445
ASTE1	719271	ASTE1	28990
ASTN1	709094	ASTN1	460
ASTN2	702370	ASTN2	23245
ASXL1	711799	ASXL1	171023
ASXL2	695057	ASXL2	55252
ASXL3	707661	ASXL3	80816
ASZ1	705097	ASZ1	136991
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ATAD2B	703529	ATAD2B	54454
ATF1	693644	ATF1	466
ATF3	710832	ATF3	467
ATF4	703965	ATF4	468
ATF6	720056	ATF6	22926

ATF6B	717050	ATF6B	1388
ATF7IP	698815	ATF7IP	55729
ATF7IP2	710224	ATF7IP2	80063
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ATG14	697252	ATG14	22863
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ATG2B	712467	ATG2B	55102
ATG3	708305	ATG3	64422
ATG4A	703367	ATG4A	115201
ATG4C	695606	ATG4C	84938
ATG4D	713111	ATG4D	84971
ATG5	696874	ATG5	9474
ATG7	696238	ATG7	10533
ATG9A	702263	ATG9A	79065
ATG9B	714284	ATG9B	285973
ATHL1	697199	ATHL1	80162
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ATM	100427400	ATM	472
ATMIN	717395	ATMIN	23300
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ATP10A	711435	ATP10A	57194
ATP10B	698170	ATP10B	23120
ATP10D	704458	ATP10D	57205
ATP11A	712589	ATP11A	23250
ATP11C	695802	ATP11C	286410
ATP13A1	100427506	ATP13A1	57130
ATP13A2	699678	ATP13A2	23400
ATP13A3	707893	ATP13A3	79572
ATP13A5	706520	ATP13A5	344905
ATP1A1	710368	ATP1A1	476
ATP1A2	720191	ATP1A2	477
ATP1A3	706513	ATP1A3	478

ATP1A4	719623	ATP1A4	480
ATP1B1	700443	ATP1B1	481
ATP1B3	716682	ATP1B3	483
ATP1B4	696160	ATP1B4	23439
ATP2A3	707768	ATP2A3	489
ATP2B1	709102	ATP2B1	490
ATP2B4	574317	ATP2B4	493
ATP2C1	719281	ATP2C1	27032
ATP2C2	715279	ATP2C2	9914
ATP4B	698222	ATP4B	496
ATP5A1	701389	ATP5A1	498
ATP5B	705465	ATP5B	506
ATP5D	705944	ATP5D	513
ATP5E	574260	ATP5E	514
ATP5F1	704072	ATP5F1	515
ATP5F1	701105	ATP5F1	515
ATP5G1	697950	ATP5G1	516
ATP5G2	703751	ATP5G2	517
ATP5G3	702893	ATP5G3	518
ATP5J	708411	ATP5J	522
ATP5L	699950	ATP5L	10632
ATP5O	698480	ATP5O	539
ATP5SL	705086	ATP5SL	55101
ATP6	2846629	ATP6	4508
ATP6AP2	705048	ATP6AP2	10159
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ATP6V0B	702243	ATP6V0B	533
ATP6V0D2	693838	ATP6V0D2	245972
ATP6V0E1	703342	ATP6V0E1	8992
ATP6V1A	709958	ATP6V1A	523
ATP6V1B1	703646	ATP6V1B1	525
ATP6V1B2	705605	ATP6V1B2	526

ATP6V1C1	693840	ATP6V1C1	528
ATP6V1C2	706673	ATP6V1C2	245973
ATP6V1D	710240	ATP6V1D	51382
ATP6V1E2	714746	ATP6V1E2	90423
ATP6V1F	702112	ATP6V1F	9296
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ATP6V1G2	715331	ATP6V1G2	534
ATP6V1G3	710372	ATP6V1G3	127124
ATP7B	713781	ATP7B	540
ATP8A1	702630	ATP8A1	10396
ATP8A2	709311	ATP8A2	51761
ATP8B1	695994	ATP8B1	5205
ATP8B2	716652	ATP8B2	57198
ATP8B3	721348	ATP8B3	148229
ATP8B4	716570	ATP8B4	79895
ATP9A	710250	ATP9A	10079
ATP9B	697957	ATP9B	374868
ATPAF2	699709	ATPAF2	91647
ATPBD4	701401	ATPBD4	89978
ATPIF1	716870	ATPIF1	93974
ATR	714443	ATR	545
ATRIP	710035	ATRIP	84126
ATRN	717374	ATRN	8455
ATRX	705735	ATRX	546
ATXN10	713805	ATXN10	25814
ATXN1L	709805	ATXN1L	342371
ATXN7L2	701498	ATXN7L2	127002
AUH	704542	AUH	549
AURKA	698190	AURKA	6790
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AURKB	721955	AURKB	9212
AURKC	709801	AURKC	6795
AUTS2	701038	AUTS2	26053
AVEN	695227	AVEN	57099

AVIL	712581	AVIL	10677
AVL9	693868	AVL9	23080
AVP	717101	AVP	551
AVPI1	707067	AVPI1	60370
AVPR1A	717041	AVPR1A	552
AVPR1B	695963	AVPR1B	553
AVPR2	697763	AVPR2	554
AWAT1	695011	AWAT1	158833
AWAT2	696451	AWAT2	158835
AXIN1	100424087	AXIN1	8312
AXIN2	718566	AXIN2	8313
AZGP1	710136	AZGP1	563
AZI1	718613	AZI1	22994
AZI2	705275	AZI2	64343
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B3GAT1	695293	B3GAT1	27087
B3GAT2	717157	B3GAT2	135152
B3GNT1	714270	B3GNT1	11041
B3GNT2	693396	B3GNT2	10678
B3GNT3	719221	B3GNT3	10331
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B4GALNT1	715317	B4GALNT1	2583
B4GALNT2	700278	B4GALNT2	124872
B4GALNT3	706259	B4GALNT3	283358

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B9D2	704873	B9D2	80776
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BAAT	100429419	BAAT	570
BACE1	697694	BACE1	23621
BACE2	715330	BACE2	25825
BACH1	705817	BACH1	571
BACH2	702740	BACH2	60468
BAD	717740	BAD	572
BAG1	702101	BAG1	573
BAG2	712778	BAG2	9532
BAG3	714420	BAG3	9531
BAG4	703953	BAG4	9530
BAG5	699170	BAG5	9529
BAHD1	702982	BAHD1	22893
BAI1	694367	BAI1	575
BAI3	714608	BAI3	577
BAIAP2	100428388	BAIAP2	10458
BAIAP2L1	718278	BAIAP2L1	55971
BAIAP2L2	700058	BAIAP2L2	80115
BAIAP3	722437	BAIAP3	8938
BAK1	706534	BAK1	578
BAMBI	710152	BAMBI	25805
BANF1	715124	BANF1	8815
BANK1	710040	BANK1	55024
BANP	696125	BANP	54971

BAP1	697221	BAP1	8314
BARD1	694301	BARD1	580
BARHL2	696831	BARHL2	343472
BARX2	715001	BARX2	8538
BATF	702646	BATF	10538
BAX	718948	BAX	581
BAZ1A	693697	BAZ1A	11177
BAZ1B	716436	BAZ1B	9031
BAZ2A	713220	BAZ2A	11176
BAZ2B	702780	BAZ2B	29994
BBS10	693270	BBS10	79738
BBS12	710538	BBS12	166379
BBS2	700353	BBS2	583
BBS4	704508	BBS4	585
BBS5	709701	BBS5	129880
BBS7	707478	BBS7	55212
BBS9	708412	BBS9	27241
BCAM	714568	BCAM	4059
BCAN	718545	BCAN	63827
BCAP29	699607	BCAP29	55973
BCAP31	696663	BCAP31	10134
BCAS1	699063	BCAS1	8537
BCAS3	712846	BCAS3	54828
BCAS4	701649	BCAS4	55653
BCAT1	707321	BCAT1	586
BCAT2	718305	BCAT2	587
BCCIP	699437	BCCIP	56647
BCDIN3D	711559	BCDIN3D	144233
BCHE	700484	BCHE	590
BCKDHA	704978	BCKDHA	593
BCKDK	712985	BCKDK	10295
BCL10	714869	BCL10	8915
BCL11B	705238	BCL11B	64919
BCL2A1	712571	BCL2A1	597

BCL2L1	713035	BCL2L1	598
BCL2L10	695562	BCL2L10	10017
BCL2L11	697082	BCL2L11	10018
BCL2L13	709825	BCL2L13	23786
BCL2L14	695971	BCL2L14	79370
BCL2L15	707537	BCL2L15	440603
BCL3	713049	BCL3	602
BCL6	708736	BCL6	604
BCL6B	713925	BCL6B	255877
BCL7A	705028	BCL7A	605
BCL7B	716470	BCL7B	9275
BCL7C	712065	BCL7C	9274
BCL9	700800	BCL9	607
BCO2	712095	BCO2	83875
BCOR	698644	BCOR	54880
BCORL1	702657	BCORL1	63035
BCR	709258	BCR	613
BCS1L	699690	BCS1L	617
BDKRB2	703698	BDKRB2	624
BDNF	701245	BDNF	627
BDP1	705283	BDP1	55814
BECN1	711649	BECN1	8678
BEND2	694277	BEND2	139105
BEND3	703032	BEND3	57673
BEND4	702395	BEND4	389206
BEND5	711150	BEND5	79656
BEND6	712498	BEND6	221336
BEST2	716545	BEST2	54831
BEST3	718450	BEST3	144453
BEST4	703847	BEST4	266675
BET1	700492	BET1	10282
BET1L	696599	BET1L	51272
BET3L	715890	BET3L	100128327
BEX2	696048	BEX2	84707

BFAR	713053	BFAR	51283
BFSP1	695840	BFSP1	631
BFSP2	717551	BFSP2	8419
BGLAP	718296	BGLAP	632
BGN	697544	BGN	633
BHLHA9	721190	BHLHA9	727857
BHLHB9	694634	BHLHB9	80823
BHLHE22	701485	BHLHE22	27319
BHLHE40	707083	BHLHE40	8553
BHMT	714363	BHMT	635
BHMT2	714308	BHMT2	23743
BICC1	701228	BICC1	80114
BICD2	706621	BICD2	23299
BIK	711479	BIK	638
BIN2	695389	BIN2	51411
BIRC2	702592	BIRC2	329
BIRC3	702468	BIRC3	330
BIRC5	709565	BIRC5	332
BIRC6	709443	BIRC6	57448
BIRC7	697671	BIRC7	79444
BIVM	100426213	BIVM	54841
BLCAP	708044	BLCAP	10904
BLM	703460	BLM	641
BLMH	712275	BLMH	642
BLNK	704363	BLNK	29760
BLOC1S1	707395	BLOC1S1	2647
BLOC1S2	709877	BLOC1S2	282991
BLOC1S3	713932	BLOC1S3	388552
BLVRA	700980	BLVRA	644
BLVRB	703020	BLVRB	645
BLZF1	700930	BLZF1	8548
BMF	706239	BMF	90427
BMP1	707596	BMP1	649
BMP10	700068	BMP10	27302

BMP15	695457	BMP15	9210
BMP2	718330	BMP2	650
BMP2K	697001	BMP2K	55589
BMP3	695432	BMP3	651
BMP4	694618	BMP4	652
BMP5	711989	BMP5	653
BMP6	695091	BMP6	654
BMP7	696948	BMP7	655
BMPER	708120	BMPER	168667
BMPR1A	696898	BMPR1A	657
BMPR1B	705474	BMPR1B	658
BMPR2	704088	BMPR2	659
BMS1	703355	BMS1	9790
BMX	712722	BMX	660
BNC1	718655	BNC1	646
BNC2	713291	BNC2	54796
BNIP1	703576	BNIP1	662
BNIP2	703234	BNIP2	663
BNIP3L	641440	BNIP3L	665
BOC	709028	BOC	91653
BOD1	712248	BOD1	91272
BOD1L	713697	BOD1L1	259282
BOK	701430	BOK	666
BOLA1	705297	BOLA1	51027
BOLA2	709574	BOLA2	552900
BOLA2	709574	BOLA2B	654483
BOLA3	707871	BOLA3	388962
BOLL	698402	BOLL	66037
BPGM	706741	BPGM	669
BPHL	708121	BPHL	670
BPIFA1	714509	BPIFA1	51297
BPIFA2	710376	BPIFA2	140683
BPIFA3	710202	BPIFA3	128861
BPIFB1	710014	BPIFB1	92747

BPIFB2	710915	BPIFB2	80341
BPIFB3	710640	BPIFB3	359710
BPIFB6	710835	BPIFB6	128859
BPIL2	717287	BPIFC	254240
BRAP	713386	BRAP	8315
BRCA1	712634	BRCA1	672
BRCA2	721981	BRCA2	675
BRCC3	702888	BRCC3	79184
BRD1	715059	BRD1	23774
BRD2	717893	BRD2	6046
BRD3	713107	BRD3	8019
BRD7	694850	BRD7	29117
BRD8	716492	BRD8	10902
BRD9	709235	BRD9	65980
BRF1	709533	BRF1	2972
BRF2	698758	BRF2	55290
BRI3	706525	BRI3	25798
BRIX1	698745	BRIX1	55299
BRMS1	714212	BRMS1	25855
BRMS1L	695909	BRMS1L	84312
BROX	704194	BROX	148362
BRP44	706595	BRP44	25874
BRP44	698807	BRP44	25874
BRP44L	716864	BRP44L	51660
BRPF1	699850	BRPF1	7862
BRS3	574261	BRS3	680
BRWD1	715714	BRWD1	54014
BRWD3	708765	BRWD3	254065
BSCL2	100428843	BSCL2	26580
BSDC1	708083	BSDC1	55108
BSG	721068	BSG	682
BSN	705757	BSN	8927
BSND	715740	BSND	7809
BSPRY	705322	BSPRY	54836

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BSX	707764	BSX	390259
BTAF1	698008	BTAF1	9044
BTBD10	700325	BTBD10	84280
BTBD11	704916	BTBD11	121551
BTBD16	705610	BTBD16	118663
BTBD17	702102	BTBD17	388419
BTBD18	703264	BTBD18	643376
BTBD3	693983	BTBD3	22903
BTBD8	705652	BTBD8	284697
BTBD9	719457	BTBD9	114781
BTC	702178	BTC	685
BTD	677722	BTD	686
BTF3	703339	BTF3	689
BTF3L4	712955	BTF3L4	91408
BTG1	710112	BTG1	694
BTG2	703168	BTG2	7832
BTG3	710579	BTG3	10950
BTG4	709946	BTG4	54766
BTK	703000	BTK	695
BTLA	708202	BTLA	151888
BTN1A1	700608	BTN1A1	696
BTN2A2	699861	BTN2A2	10385
BTN3A3	699983	BTN3A3	10384
BTNL3	707689	BTNL3	10917
BTNL8	707591	BTNL8	79908
BUB1B	100423079	BUB1B	701
BUB3	708033	BUB3	9184
BUD31	718694	BUD31	8896
BVES	696255	BVES	11149
BYSL	694976	BYSL	705
BZRAP1	714301	BZRAP1	9256
BZW1	701731	BZW1	9689
BZW2	714627	BZW2	28969

C10H20orf11	698189	C20orf11	54994
C10H20orf118	709257	C20orf118	140711
C10H20orf132	701423	C20orf132	140699
C10H20orf141	100426415	C20orf141	128653
C10H20orf152	703290	C20orf152	140894
C10H20orf194	718453	C20orf194	25943
C10H20orf195	696464	C20orf195	79025
C10H20orf196	718152	C20orf196	149840
C10H20orf202	717213	C20orf202	400831
C10H20orf24	709696	C20orf24	55969
C10H20orf26	699814	C20orf26	26074
C10H20orf27	717525	C20orf27	54976
C10H20orf3	704948	C20orf3	57136
C10H20orf43	697672	C20orf43	51507
C10H20orf72	696467	C20orf72	92667
C10H20orf79	698938	C20orf79	140856
C10H20orf85	695728	C20orf85	128602
C10H22orf13	711521	C22orf13	83606
C10H22orf23	699449	C22orf23	84645
C10H22orf28	717258	C22orf28	51493
C10H22orf32	709741	C22orf32	91689
C10H22orf40	718366	C22orf40	150383
C10orf72	710593	VSTM4	196740
C11H12orf10	702255	C12orf10	60314
C11H12orf23	100423626	C12orf23	90488
C11H12orf29	708382	C12orf29	91298
C11H12orf35	695054	C12orf35	55196
C11H12orf4	710836	C12orf4	57102
C11H12orf44	696954	C12orf44	60673
C11H12orf45	701291	C12orf45	121053
C11H12orf49	713916	C12orf49	79794
C11H12orf52	712837	C12orf52	84934
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C11H12orf56	717259	C12orf56	115749

C11H12orf57	714482	C12orf57	113246
C11H12orf61	716906	C12orf61	283416
C11H12orf66	717230	C12orf66	144577
C11H12orf68	705665	C12orf68	387856
C11H12orf73	699533	C12orf73	728568
C11H3orf19	701654	C3orf19	51244
C11H3orf37	703524	C3orf37	56941
C11orf17	705188	AKIP1	56672
C11orf59	718249	LAMTOR1	55004
C12H2orf47	699322	C2orf47	79568
C12H2orf62	698579	C2orf62	375307
C12H2orf66	100423141	C2orf66	401027
C12H2orf88	100427291	C2orf88	84281
C13H2orf15	100423488	C2orf15	150590
C13H2orf18	697195	C2orf18	54978
C13H2orf28	699201	C2orf28	51374
C13H2orf40	713611	C2orf40	84417
C13H2orf43	717510	C2orf43	60526
C13H2orf44	703861	C2orf44	80304
C13H2orf49	713165	C2orf49	79074
C13H2orf51	699461	C2orf51	200523
C13H2orf53	698826	C2orf53	339779
C13H2orf68	696341	C2orf68	388969
C13H2orf70	698774	C2orf70	339778
C13H2orf73	718692	C2orf73	129852
C13H2orf74	719520	C2orf74	339804
C13H2orf76	694824	C2orf76	130355
C13H2orf78	707226	C2orf78	388960
C13orf15	698962	RGCC	28984
C13orf26	713363	TEX26	122046
C13orf31	700834	LACC1	144811
C13orf36	693915	SERTM1	400120
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C14H11orf20	717642	C11orf20	25858

C14H11orf30	697319	C11orf30	56946
C14H11orf31	704535	C11orf31	280636
C14H11orf41	694254	C11orf41	25758
C14H11orf42	711815	C11orf42	160298
C14H11orf46	697201	C11orf46	120534
C14H11orf49	713981	C11orf49	79096
C14H11orf52	100423638	C11orf52	91894
C14H11orf54	696483	C11orf54	28970
C14H11orf57	711168	C11orf57	55216
C14H11orf58	697690	C11orf58	10944
C14H11orf65	707988	C11orf65	160140
C14H11orf67	699328	C11orf67	28971
C14H11orf71	695519	C11orf71	54494
C14H11orf73	704098	C11orf73	51501
C14H11orf74	716798	C11orf74	119710
C14H11orf75	695982	C11orf75	56935
C14H11orf83	718716	C11orf83	790955
C14H11orf84	718112	C11orf84	144097
C14H11orf87	708608	C11orf87	399947
C14H11orf9	719083	C11orf9	745
C14H11orf94	100426322	C11orf94	143678
C14orf153	696031	APOPT1	84334
C15H9orf100	696846	C9orf100	84904
C15H9orf11	707334	C9orf11	54586
C15H9orf117	706872	C9orf117	286207
C15H9orf135	700202	C9orf135	138255
C15H9orf142	707874	C9orf142	286257
C15H9orf152	709754	C9orf152	401546
C15H9orf156	715609	C9orf156	51531
C15H9orf172	708922	C9orf172	389813
C15H9orf24	701552	C9orf24	84688
C15H9orf3	709211	C9orf3	84909
C15H9orf41	706229	C9orf41	138199
C15H9orf43	704968	C9orf43	257169

C15H9orf64	709210	C9orf64	84267
C15H9orf71	698708	C9orf71	169693
C15H9orf72	706828	C9orf72	203228
C15H9orf78	716542	C9orf78	51759
C15H9orf84	707991	C9orf84	158401
C15H9orf85	701553	C9orf85	138241
C15H9orf89	717150	C9orf89	84270
C15H9orf91	703539	C9orf91	203197
C15orf17	722132	FAM219B	57184
C16H17orf101	716172	C17orf101	79701
C16H17orf103	705077	C17orf103	256302
C16H17orf105	713751	C17orf105	284067
C16H17orf108	715248	C17orf108	201229
C16H17orf109	703547	C17orf109	643008
C16H17orf39	699842	C17orf39	79018
C16H17orf47	710657	C17orf47	284083
C16H17orf48	717991	C17orf48	56985
C16H17orf49	713820	C17orf49	124944
C16H17orf50	718911	C17orf50	146853
C16H17orf59	716995	C17orf59	54785
C16H17orf61	715274	C17orf61	254863
C16H17orf62	716212	C17orf62	79415
C16H17orf66	716382	C17orf66	256957
C16H17orf70	713876	C17orf70	80233
C16H17orf75	714040	C17orf75	64149
C16H17orf80	695988	C17orf80	55028
C16H17orf96	694517	C17orf96	100170841
C16H17orf98	695586	C17orf98	388381
C16orf75	711569	RMI2	116028
C17orf71	711172	SMG8	55181
C18H18orf1	701919	C18orf1	753
C18H18orf22	699220	RBFA	79863
C18H18orf25	695993	C18orf25	147339
C18H18orf34	707566	C18orf34	374864

C18H18orf8	700967	C18orf8	29919
C18orf10	709953	TPGS2	25941
C18orf55	694581	TIMM21	29090
C19H19orf25	707461	C19orf25	148223
C19H19orf43	716466	C19orf43	79002
C19H19orf47	701191	C19orf47	126526
C19H19orf52	713825	C19orf52	90580
C19H19orf54	702609	C19orf54	284325
C19H19orf59	704646	C19orf59	199675
C19H19orf75	719573	C19orf75	284369
C19H1orf109	719791	C1orf109	54955
C19orf22	704227	R3HDM4	91300
C19orf50	720235	KXD1	79036
C19orf56	716302	WDR83OS	51398
C19orf61	710940	SMG9	56006
C19orf62	718969	BABAM1	29086
C1D	698450	C1D	10438
C1GALT1	696870	C1GALT1	56913
C1GALT1C1	696662	C1GALT1C1	29071
C1H1orf100	704944	C1orf100	200159
C1H1orf111	720087	C1orf111	284680
C1H1orf114	700803	C1orf114	57821
C1H1orf116	693886	C1orf116	79098
C1H1orf123	714201	C1orf123	54987
C1H1orf130	712192	C1orf130	400746
C1H1orf158	715694	C1orf158	93190
C1H1orf182	719490	C1orf182	128229
C1H1orf187	714633	C1orf187	374946
C1H1orf189	718569	C1orf189	388701
C1H1orf21	714584	C1orf21	81563
C1H1orf210	700052	C1orf210	149466
C1H1orf212	712003	C1orf212	113444
C1H1orf27	713801	C1orf27	54953
C1H1orf35	695723	C1orf35	79169

C1H1orf38	716538	C1orf38	9473
C1H1orf50	698058	C1orf50	79078
C1H1orf51	706693	C1orf51	148523
C1H1orf52	711232	C1orf52	148423
C1H1orf64	696582	C1orf64	149563
C1H1orf9	705776	C1orf9	51430
C1H1orf95	698311	C1orf95	375057
C1QA	708477	C1QA	712
C1QC	708589	C1QC	714
C1QL1	715801	C1QL1	10882
C1QL2	697776	C1QL2	165257
C1QL3	100429967	C1QL3	389941
C1QTNF1	711093	C1QTNF1	114897
C1QTNF2	695783	C1QTNF2	114898
C1QTNF5	705073	C1QTNF5	114902
C1QTNF6	696468	C1QTNF6	114904
C1QTNF8	699227	C1QTNF8	390664
C1QTNF9	707884	C1QTNF9	338872
C1S	714589	C1S	716
C20H16orf13	696495	C16orf13	84326
C20H16orf45	713757	C16orf45	89927
C20H16orf46	713832	C16orf46	123775
C20H16orf48	699487	C16orf48	84080
C20H16orf5	705579	C16orf5	29965
C20H16orf52	697165	C16orf52	730094
C20H16orf53	706839	C16orf53	79447
C20H16orf54	706285	C16orf54	283897
C20H16orf58	714281	C16orf58	64755
C20H16orf59	696863	C16orf59	80178
C20H16orf70	695885	C16orf70	80262
C20H16orf72	709573	C16orf72	29035
C20H16orf73	703322	C16orf73	254528
C20H16orf74	693546	C16orf74	404550
C20H16orf80	706737	C16orf80	29105

C20H16orf82	702965	C16orf82	162083
C20H16orf87	716218	C16orf87	388272
C20H16orf92	708311	C16orf92	146378
C20H16orf93	711827	C16orf93	90835
C20orf103	718433	LAMP5	24141
C20orf165	709097	SPATA25	128497
C20orf29	718611	AP5S1	55317
C20orf46	717181	TMEM74B	55321
C20orf54	715057	SLC52A3	113278
C2CD2	714860	C2CD2	25966
C2CD2L	703424	C2CD2L	9854
C2CD3	718842	C2CD3	26005
C2CD4A	704354	C2CD4A	145741
C2CD4B	704470	C2CD4B	388125
C2CD4C	100424440	C2CD4C	126567
C2H3orf14	699965	C3orf14	57415
C2H3orf15	712979	C3orf15	89876
C2H3orf18	701675	C3orf18	51161
C2H3orf22	716585	C3orf22	152065
C2H3orf23	715979	C3orf23	285343
C2H3orf24	715980	C3orf24	115795
C2H3orf26	699717	C3orf26	84319
C2H3orf32	702279	C3orf32	51066
C2H3orf58	713830	C3orf58	205428
C2H3orf62	707038	C3orf62	375341
C2H3orf70	702548	C3orf70	285382
C2H3orf75	711423	C3orf75	54859
C2H3orf77	715464	C3orf77	375337
C2H3orf78	696553	C3orf78	440957
C2H3orf80	705274	C3orf80	401097
C2orf3	716061	GCFC2	6936
C2orf60	699197	TYW5	129450
C3	703613	C3	718
C3AR1	716086	C3AR1	719

C3H21orf33	713055	C21orf33	8209
C3H21orf59	700721	C21orf59	56683
C3H21orf62	700356	C21orf62	56245
C3H21orf91	710406	C21orf91	54149
C3H7orf23	706405	C7orf23	79161
C3H7orf25	708455	C7orf25	79020
C3H7orf26	704772	C7orf26	79034
C3H7orf31	702969	C7orf31	136895
C3H7orf33	710503	C7orf33	202865
C3H7orf43	711262	C7orf43	55262
C3H7orf45	702497	C7orf45	136263
C3H7orf50	696867	C7orf50	84310
C3H7orf55	711184	C7orf55	154791
C3H7orf60	704714	C7orf60	154743
C3H7orf61	712150	C7orf61	402573
C3H7orf62	704775	C7orf62	219557
C3H7orf72	697167	C7orf72	100130988
C3orf1	712414	TIMMDC1	51300
C3orf21	708627	XXYLT1	152002
C3orf31	695998	TAMM41	132001
C4B	721200	C4B	721
C4B	721200	C4A	720
C4BPA	693382	C4BPA	722
C4BPB	693636	C4BPB	725
C4H6orf106	718675	C6orf106	64771
C4H6orf108	699111	C6orf108	10591
C4H6orf130	719685	C6orf130	221443
C4H6orf136	712108	C6orf136	221545
C4H6orf15	100141389	C6orf15	29113
C4H6orf162	700543	C6orf162	57150
C4H6orf165	700665	C6orf165	154313
C4H6orf203	698108	C6orf203	51250
C4H6orf211	704570	C6orf211	79624
C4H6orf225	100428677	C6orf225	619208

C4H6orf228	703387	C6orf228	221710
C4H6orf25	716265	C6orf25	80739
C4H6orf47	715966	C6orf47	57827
C4H6orf52	702114	C6orf52	347744
C4H6orf57	717008	C6orf57	135154
C4H6orf58	711663	C6orf58	352999
C4H6orf62	708218	C6orf62	81688
C4H6orf72	696511	C6orf72	116254
C4H6orf89	719165	C6orf89	221477
C4orf14	693437	NOA1	84273
C5	700467	C5	727
C5AR1	718056	C5AR1	728
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C5H4orf19	697118	C4orf19	55286
C5H4orf27	694607	C4orf27	54969
C5H4orf32	700501	C4orf32	132720
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C6	696266	C6	729
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C6H5orf54	695905	C5orf54	63920
C6H5orf63	100423212	C5orf63	401207
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C6orf105	699609	ADTRP	84830
C6orf125	100425666	MNF1	84300
C6orf154	700361	LRRC73	221424
C6orf186	697600	METTL24	728464
C6orf192	708518	SLC18B1	116843
C6orf26	716394	SAPCD1	401251
C7	696926	C7	730
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C7H14orf126	717267	C14orf126	112487
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C7H14orf79	698505	C14orf79	122616
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C7H15orf55	696271	C15orf55	256646
C7H15orf57	703343	C15orf57	90416
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C8H8orf76	704150	C8orf76	84933
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C9H10orf120	706212	C10orf120	399814
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C9H10orf90	696655	C10orf90	118611
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CA14	706360	CA14	23632
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CA5B	713128	CA5B	11238
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CA8	699005	CA8	767
CA9	696729	CA9	768
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CACNA1C	721721	CACNA1C	775
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CALY	702415	CALY	50632

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CAST	703623	CAST	831

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CDC25A	710858	CDC25A	993
CDC25C	714115	CDC25C	995
CDC26	706165	CDC26	246184
CDC27	717321	CDC27	996
CDC37	715390	CDC37	11140
CDC37L1	694831	CDC37L1	55664
CDC40	697474	CDC40	51362
CDC42	707637	CDC42	998
CDC42BPA	697811	CDC42BPA	8476
CDC42BPG	722039	CDC42BPG	55561
CDC42EP1	697553	CDC42EP1	11135

CDC42EP2	716504	CDC42EP2	10435
CDC42EP3	712377	CDC42EP3	10602
CDC42EP4	696227	CDC42EP4	23580
CDC42SE1	100427784	CDC42SE1	56882
CDC42SE2	708885	CDC42SE2	56990
CDC45	711800	CDC45	8318
CDC5L	703099	CDC5L	988
CDC6	700081	CDC6	990
CDC7	704730	CDC7	8317
CDC73	712256	CDC73	79577
CDCA2	711581	CDCA2	157313
CDCA3	722088	CDCA3	83461
CDCA7	696474	CDCA7	83879
CDCA7L	711948	CDCA7L	55536
CDCA8	719808	CDCA8	55143
CDCP1	714333	CDCP1	64866
CDH1	704387	CDH1	999
CDH11	708826	CDH11	1009
CDH12	693440	CDH12	1010
CDH13	718038	CDH13	1012
CDH16	697166	CDH16	1014
CDH17	698886	CDH17	1015
CDH18	701472	CDH18	1016
CDH19	702726	CDH19	28513
CDH23	709433	CDH23	64072
CDH24	713241	CDH24	64403
CDH26	701165	CDH26	60437
CDH5	693297	CDH5	1003
CDH6	695557	CDH6	1004
CDH7	702481	CDH7	1005
CDH8	708408	CDH8	1006
CDH9	694989	CDH9	1007
CDHR1	698637	CDHR1	92211
CDHR2	697249	CDHR2	54825

CDHR5	699464	CDHR5	53841
CDIPT	707141	CDIPT	10423
CDK1	699269	CDK1	983
CDK10	700096	CDK10	8558
CDK12	696733	CDK12	51755
CDK14	703442	CDK14	5218
CDK17	717183	CDK17	5128
CDK18	100430417	CDK18	5129
CDK2	711002	CDK2	1017
CDK2AP2	711640	CDK2AP2	10263
CDK3	705330	CDK3	1018
CDK4	715650	CDK4	1019
CDK5	714445	CDK5	1020
CDK5R1	714274	CDK5R1	8851
CDK5RAP3	695189	CDK5RAP3	80279
CDK6	701822	CDK6	1021
CDK7	699871	CDK7	1022
CDK8	709761	CDK8	1024
CDK9	699840	CDK9	1025
CDKAL1	706409	CDKAL1	54901
CDKL1	705975	CDKL1	8814
CDKL2	701467	CDKL2	8999
CDKL3	710586	CDKL3	51265
CDKN1A	719199	CDKN1A	1026
CDKN1B	697188	CDKN1B	1027
CDKN1C	721220	CDKN1C	1028
CDKN2AIP	701583	CDKN2AIP	55602
CDKN2B	709209	CDKN2B	1030
CDKN2C	711877	CDKN2C	1031
CDKN2D	713172	CDKN2D	1032
CDKN3	694877	CDKN3	1033
CDNF	697138	CDNF	441549
CDO1	696387	CDO1	1036
CDON	714039	CDON	50937

CDR2	698974	CDR2	1039
CDR2L	700082	CDR2L	30850
CDS1	706649	CDS1	1040
CDSN	714553	CDSN	1041
CDX1	711837	CDX1	1044
CDX2	711094	CDX2	1045
CDX4	701374	CDX4	1046
CDYL	722957	CDYL	9425
CEACAM4	705453	CEACAM4	1089
CEACAM5	705689	CEACAM5	1048
CEBPE	713442	CEBPE	1053
CEBPG	704322	CEBPG	1054
CEBPZ	712090	CEBPZ	10153
CECR2	718454	CECR2	27443
CECR5	709197	CECR5	27440
CEL	722291	CEL	1056
CELA3B	574236	CELA3B	23436
CELF1	713167	CELF1	10658
CELF3	716884	CELF3	11189
CELF6	698374	CELF6	60677
CELSR1	718440	CELSR1	9620
CEND1	100427039	CEND1	51286
CENPA	697312	CENPA	1058
CENPC1	710620	CENPC1	1060
CENPE	711186	CENPE	1062
CENPF	709000	CENPF	1063
CENPH	699620	CENPH	64946
CENPI	702316	CENPI	2491
CENPJ	721498	CENPJ	55835
CENPK	696142	CENPK	64105
CENPL	707211	CENPL	91687
CENPM	709006	CENPM	79019
CENPN	713624	CENPN	55839
CENPP	100427110	CENPP	401541

CENPW	712570	CENPW	387103
CEP104	695837	CEP104	9731
CEP110	700200	CNTRL	11064
CEP112	718585	CEP112	201134
CEP120	701351	CEP120	153241
CEP128	707594	CEP128	145508
CEP135	696309	CEP135	9662
CEP152	714557	CEP152	22995
CEP164	697948	CEP164	22897
CEP170	705427	CEP170	9859
CEP19	710498	CEP19	84984
CEP192	722121	CEP192	55125
CEP250	705173	CEP250	11190
CEP290	708286	CEP290	80184
CEP350	716537	CEP350	9857
CEP44	697478	CEP44	80817
CEP55	699890	CEP55	55165
CEP57	699835	CEP57	9702
CEP57L1	700109	CEP57L1	285753
CEP63	717266	CEP63	80254
CEP70	716263	CEP70	80321
CEP72	708753	CEP72	55722
CEP76	702607	CEP76	79959
CEP78	706167	CEP78	84131
CEP85	714264	CEP85	64793
CEP89	703199	CEP89	84902
CEP95	718348	CEP95	90799
CEP97	702482	CEP97	79598
CEPT1	702700	CEPT1	10390
CER1	713924	CER1	9350
CERK	714480	CERK	64781
CERKL	710256	CERKL	375298
CES2	707412	CES1	1066
CES5A	699601	CES5A	221223

CETN1	697701	CETN1	1068
CETN2	693376	CETN2	1069
CETN3	695223	CETN3	1070
CFB	716809	CFB	629
CFDP1	711343	CFDP1	10428
CFL1	721882	CFL1	1072
CFL2	693875	CFL2	1073
CFLAR	574234	CFLAR	8837
CFTR	574346	CFTR	1080
CGA	697859	CGA	1081
CGB8	574324	CGB	1082
CGB8	574324	CGB5	93659
CGB8	574324	CGB8	94115
CGGBP1	693920	CGGBP1	8545
CGNL1	699876	CGNL1	84952
CGREF1	698449	CGREF1	10669
CGRRF1	695231	CGRRF1	10668
CH25H	694532	CH25H	9023
CHAC1	705007	CHAC1	79094
CHAC2	100427277	CHAC2	494143
CHAF1A	721861	CHAF1A	10036
CHAF1B	695206	CHAF1B	8208
CHAT	709977	CHAT	1103
CHCHD1	706322	CHCHD1	118487
CHCHD2	702967	CHCHD2	51142
CHCHD3	698080	CHCHD3	54927
CHCHD4	700814	CHCHD4	131474
CHCHD5	699323	CHCHD5	84269
CHCHD6	716767	CHCHD6	84303
CHCHD7	699551	CHCHD7	79145
CHCHD8	718275	CHCHD8	51287
CHD1	702070	CHD1	1105
CHD2	706310	CHD2	1106
CHD3	716508	CHD3	1107

CHD4	713162	CHD4	1108
CHD7	706471	CHD7	55636
CHD8	708169	CHD8	57680
CHDH	693805	CHDH	55349
CHEK2	713668	CHEK2	11200
CHERP	718689	CHERP	10523
CHFR	694297	CHFR	55743
CHGA	574388	CHGA	1113
CHGB	719171	CHGB	1114
CHI3L1	703401	CHI3L1	1116
CHI3L2	705024	CHI3L2	1117
CHIA	703284	CHIA	27159
CHIC1	701720	CHIC1	53344
CHIC2	697359	CHIC2	26511
CHID1	701435	CHID1	66005
CHIT1	703286	CHIT1	1118
CHL1	709172	CHL1	10752
CHM	694499	CHM	1121
CHMP1A	714304	CHMP1A	5119
CHMP1B	100425079	CHMP1B	57132
CHMP2A	712059	CHMP2A	27243
CHMP2B	719340	CHMP2B	25978
CHMP4C	702310	CHMP4C	92421
CHMP5	703191	CHMP5	51510
CHN1	698697	CHN1	1123
CHN2	697231	CHN2	1124
CHORDC1	694312	CHORDC1	26973
CHP1	705482	CHP1	11261
CHP2	701087	CHP2	63928
CHPF	703860	CHPF	79586
CHRA1	700384	CHRA1	54108
CHRD	702281	CHRD	8646
CHRD1	706100	CHRD1	91851
CHRM1	574362	CHRM1	1128

CHRM3	708901	CHRM3	1131
CHRM4	574195	CHRM4	1132
CHRM5	574330	CHRM5	1133
CHRNA1	698578	CHRNA1	1134
CHRNA10	718133	CHRNA10	57053
CHRNA2	712868	CHRNA2	1135
CHRNA4	719678	CHRNA4	1137
CHRNA5	574191	CHRNA5	1138
CHRNA6	705725	CHRNA6	8973
CHRNA7	574230	CHRNA7	1139
CHRNA9	700612	CHRNA9	55584
CHRNB1	715509	CHRNB1	1140
CHRNB2	716830	CHRNB2	1141
CHRNB3	720301	CHRNB3	1142
CHRND	713354	CHRND	1144
CHRNE	710301	CHRNE	1145
CHRNG	713418	CHRNG	1146
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CHST11	700690	CHST11	50515
CHST12	713591	CHST12	55501
CHST13	716548	CHST13	166012
CHST14	703115	CHST14	113189
CHST15	693845	CHST15	51363
CHST2	713994	CHST2	9435
CHST3	709333	CHST3	9469
CHST4	708116	CHST4	10164
CHST6	711570	CHST6	4166
CHST7	704906	CHST7	56548
CHST8	704647	CHST8	64377
CHST9	703877	CHST9	83539
CHSY1	694481	CHSY1	22856
CHSY3	100423555	CHSY3	337876
CHTF18	698475	CHTF18	63922

CHTF8	715804	CHTF8	54921
CHTOP	715501	CHTOP	26097
CHUK	709511	CHUK	1147
CIAO1	705318	CIAO1	9391
CIAPIN1	704770	CIAPIN1	57019
CIB1	701842	CIB1	10519
CIB2	709429	CIB2	10518
CIB3	718586	CIB3	117286
CIDEA	703318	CIDEA	1149
CIDEB	100425328	CIDEB	27141
CIITA	710761	CIITA	4261
CILP	709042	CILP	8483
CILP2	716547	CILP2	148113
CINP	709044	CINP	51550
CIP29	718212	SARNP	84324
CIRBP	706175	CIRBP	1153
CIRH1A	705036	CIRH1A	84916
CISD1	701716	CISD1	55847
CISH	701456	CISH	1154
CIT	695846	CIT	11113
CITED1	703165	CITED1	4435
CITED4	693978	CITED4	163732
CIZ1	717725	CIZ1	25792
CKAP2	693531	CKAP2	26586
CKAP2L	704381	CKAP2L	150468
CKAP5	714095	CKAP5	9793
CKB	711167	CKB	1152
CKMT2	711434	CKMT2	1160
CKS2	697324	CKS2	1164
CLASP1	696719	CLASP1	23332
CLASP2	706519	CLASP2	23122
CLCA1	574295	CLCA1	1179
CLCA2	711959	CLCA2	9635
CLCA4	712123	CLCA4	22802

CLCC1	696577	CLCC1	23155
CLCF1	712554	CLCF1	23529
CLCN1	703944	CLCN1	1180
CLCN2	704709	CLCN2	1181
CLCN5	694497	CLCN5	1184
CLCN6	714793	CLCN6	1185
CLCN7	100429296	CLCN7	1186
CLCNKA	703259	CLCNKA	1187
CLCNKB	703476	CLCNKB	1188
CLDN1	704330	CLDN1	9076
CLDN10	695638	CLDN10	9071
CLDN11	696363	CLDN11	5010
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CLDN14	695087	CLDN14	23562
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CLDN2	701378	CLDN2	9075
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CLDN22	701348	CLDN22	53842
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CLDN6	699854	CLDN6	9074
CLDN7	714647	CLDN7	1366
CLDN8	705345	CLDN8	9073
CLDN9	699721	CLDN9	9080
CLDND1	698472	CLDND1	56650
CLEC11A	719381	CLEC11A	6320
CLEC12B	717426	CLEC12B	387837
CLEC14A	698253	CLEC14A	161198
CLEC16A	711016	CLEC16A	23274

CLEC18A	709768	CLEC18C	283971
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CLEC18A	709768	CLEC18B	497190
CLEC1A	717526	CLEC1A	51267
CLEC1B	717404	CLEC1B	51266
CLEC2B	717347	CLEC2B	9976
CLEC3A	713054	CLEC3A	10143
CLEC4A	716122	CLEC4A	50856
CLEC4E	722250	CLEC4E	26253
CLEC4F	703303	CLEC4F	165530
CLEC5A	695425	CLEC5A	23601
CLEC7A	574356	CLEC7A	64581
CLEC9A	717472	CLEC9A	283420
CLGN	698361	CLGN	1047
CLIC2	703475	CLIC2	1193
CLIC4	712337	CLIC4	25932
CLIC5	703565	CLIC5	53405
CLIC6	696993	CLIC6	54102
CLIP1	702137	CLIP1	6249
CLIP3	712058	CLIP3	25999
CLIP4	704092	CLIP4	79745
CLK1	700320	CLK1	1195
CLK3	702511	CLK3	1198
CLK4	702752	CLK4	57396
CLMN	709910	CLMN	79789
CLMP	708098	CLMP	79827
CLN5	696352	CLN5	1203
CLN8	716441	CLN8	2055
CLP1	705071	CLP1	10978
CLPB	718461	CLPB	81570
CLPS	719005	CLPS	1208
CLPTM1	718306	CLPTM1	1209
CLPTM1L	709968	CLPTM1L	81037
CLPX	708954	CLPX	10845

CLRN1	710133	CLRN1	7401
CLRN2	722858	CLRN2	645104
CLRN3	697496	CLRN3	119467
CLSPN	712338	CLSPN	63967
CLSTN1	722304	CLSTN1	22883
CLSTN2	715514	CLSTN2	64084
CLSTN3	715119	CLSTN3	9746
CLTC	711563	CLTC	1213
CLTCL1	719087	CLTCL1	8218
CLU	677866	CLU	1191
CLUAP1	703676	CLUAP1	23059
CLUL1	699155	CLUL1	27098
CLVS1	700007	CLVS1	157807
CLVS2	713626	CLVS2	134829
CLYBL	699339	CLYBL	171425
CMA1	716395	CMA1	1215
CMAS	706604	CMAS	55907
CMBL	696762	CMBL	134147
CMC1	705147	CMC1	152100
CMPK1	710196	CMPK1	51727
CMPK2	708602	CMPK2	129607
CMTM2	693810	CMTM2	146225
CMTM3	695592	CMTM3	123920
CMTM5	713886	CMTM5	116173
CMTM6	704441	CMTM6	54918
CMTM7	704329	CMTM7	112616
CMTM8	704234	CMTM8	152189
CMYA5	710145	CMYA5	202333
CNBD1	100424531	CNBD1	168975
CNDP1	695195	CNDP1	84735
CNDP2	695080	CNDP2	55748
CNGA1	704891	CNGA1	1259
CNGA3	707872	CNGA3	1261
CNGB1	706073	CNGB1	1258

CNGB3	694758	CNGB3	54714
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CNIH4	701767	CNIH4	29097
CNKS1R	714154	CNKS1R	10256
CNKS2R	696046	CNKS2R	22866
CNKS3R	702627	CNKS3R	154043
CNN2	711432	CNN2	1265
CNN3	709538	CNN3	1266
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CNOT2	718501	CNOT2	4848
CNOT3	693292	CNOT3	4849
CNOT4	708011	CNOT4	4850
CNOT6	716286	CNOT6	57472
CNOT6L	697981	CNOT6L	246175
CNOT7	702192	CNOT7	29883
CNOT8	714813	CNOT8	9337
CNP	641337	CNP	1267
CNPPD1	704271	CNPPD1	27013
CNPY1	718795	CNPY1	285888
CNPY3	100424676	CNPY3	10695
CNPY4	719080	CNPY4	245812
CNR1	574142	CNR1	1268
CNR2	711155	CNR2	1269
CNRIP1	698827	CNRIP1	25927
CNTF	701907	CNTF	1270
CNTFR	700959	CNTFR	1271
CNTLN	713456	CNTLN	54875
CNTN1	574365	CNTN1	1272
CNTN2	574333	CNTN2	6900
CNTN3	705574	CNTN3	5067
CNTN4	704763	CNTN4	152330
CNTN5	700826	CNTN5	53942

CNTN6	705207	CNTN6	27255
CNTNAP1	574229	CNTNAP1	8506
CNTNAP2	574172	CNTNAP2	26047
CNTNAP3	711939	CNTNAP3	79937
CNTNAP4	574170	CNTNAP4	85445
CNTNAP5	697828	CNTNAP5	129684
CNTROB	716660	CNTROB	116840
COA1	701198	COA1	55744
COA5	100423146	COA5	493753
COASY	710491	COASY	80347
COBL	693867	COBL	23242
COBLL1	702934	COBLL1	22837
COCH	717114	COCH	1690
COG1	695754	COG1	9382
COG2	714263	COG2	22796
COG3	702375	COG3	83548
COG4	712103	COG4	25839
COG5	699108	COG5	10466
COG6	697092	COG6	57511
COG7	700218	COG7	91949
COIL	708103	COIL	8161
COL10A1	716223	COL10A1	1300
COL11A2	718050	COL11A2	1302
COL12A1	717820	COL12A1	1303
COL14A1	702878	COL14A1	7373
COL15A1	715003	COL15A1	1306
COL16A1	706149	COL16A1	1307
COL18A1	721919	COL18A1	80781
COL19A1	716948	COL19A1	1310
COL1A1	574201	COL1A1	1277
COL1A2	700359	COL1A2	1278
COL21A1	712070	COL21A1	81578
COL24A1	711713	COL24A1	255631
COL25A1	697122	COL25A1	84570

COL2A1	704851	COL2A1	1280
COL3A1	574131	COL3A1	1281
COL4A1	700281	COL4A1	1282
COL4A2	100429807	COL4A2	1284
COL4A3	712444	COL4A3	1285
COL4A3BP	705834	COL4A3BP	10087
COL4A4	708287	COL4A4	1286
COL4A5	703814	COL4A5	1287
COL4A6	703707	COL4A6	1288
COL5A2	712935	COL5A2	1290
COL6A2	709493	COL6A2	1292
COL6A3	694701	COL6A3	1293
COL6A6	719319	COL6A6	131873
COL8A1	100423514	COL8A1	1295
COL8A2	713447	COL8A2	1296
COL9A1	714809	COL9A1	1297
COLEC10	701960	COLEC10	10584
COLEC11	707223	COLEC11	78989
COLEC12	700031	COLEC12	81035
COLQ	694331	COLQ	8292
COMMD10	698295	COMMD10	51397
COMMD2	711498	COMMD2	51122
COMMD3	677699	COMMD3-BMI1	100532731
COMMD5	704586	COMMD5	28991
COMMD8	704346	COMMD8	54951
COMMD9	716992	COMMD9	29099
COMP	720286	COMP	1311
COMT	712548	COMT	1312
COMTD1	704152	COMTD1	118881
COPA	719683	COPA	1314
COPE	719631	COPE	11316
COPG2	707516	COPG2	26958
COPS2	714814	COPS2	9318
COPS3	698461	COPS3	8533

COPS4	693435	COPS4	51138
COPS5	704584	COPS5	10987
COPS7A	713607	COPS7A	50813
COPS7B	712697	COPS7B	64708
COPZ1	705176	COPZ1	22818
COPZ2	696299	COPZ2	51226
COQ10B	697432	COQ10B	80219
COQ3	694215	COQ3	51805
COQ7	693931	COQ7	10229
COQ9	704657	COQ9	57017
CORIN	704666	CORIN	10699
CORO1A	710813	CORO1A	11151
CORO1C	707498	CORO1C	23603
CORO2A	715369	CORO2A	7464
CORO6	711818	CORO6	84940
CORO7	708677	CORO7	79585
CORO7	708677	CORO7-PAM16	100529144
COTL1	715376	COTL1	23406
COX1	2846624	COX1	4512
COX10	718301	COX10	1352
COX11	641445	COX11	1353
COX14	100428926	COX14	84987
COX16	100428036	COX16	51241
COX17	712917	COX17	10063
COX19	696368	COX19	90639
COX2	2846628	COX2	4513
COX20	704298	COX20	116228
COX3	2846633	COX3	4514
COX4I1	693811	COX4I1	1327
COX4I2	713095	COX4I2	84701
COX4NB	693674	EMC8	10328
COX5A	692061	COX5A	9377
COX6A2	713995	COX6A2	1339
COX6B1	692062	COX6B1	1340

COX6B2	100425382	COX6B2	125965
COX6C	100428417	COX6C	1345
COX7A2L	703470	COX7A2L	9167
COX7AH	692060	COX7A1	1346
COX7B	706099	COX7B	1349
COX7B2	100428437	COX7B2	170712
COX7C	100429280	COX7C	1350
COX8A	718007	COX8A	1351
CP	712210	CP	1356
CP110	694966	CCP110	9738
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CPA3	712564	CPA3	1359
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CPB2	703317	CPB2	1361
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CPEB4	704141	CPEB4	80315
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CPM	718315	CPM	1368
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CPNE2	703557	CPNE2	221184
CPNE3	694013	CPNE3	8895
CPNE5	719255	CPNE5	57699
CPNE8	696586	CPNE8	144402
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CPOX	698849	CPOX	1371
CPQ	701711	CPQ	10404
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CPSF2	697875	CPSF2	53981
CPSF3	694036	CPSF3	51692
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CPSF7	693730	CPSF7	79869
CPT1A	709837	CPT1A	1374
CPT1B	720697	CPT1B	1375
CPT2	714150	CPT2	1376
CPVL	697111	CPVL	54504
CPXM1	716790	CPXM1	56265
CPXM2	693465	CPXM2	119587
CR1	718120	CR1	1378
CRABP1	710048	CRABP1	1381
CRABP2	718579	CRABP2	1382
CRADD	711165	CRADD	8738
CRAMP1L	722473	CRAMP1L	57585
CRAT	716908	CRAT	1384
CRB1	710991	CRB1	23418
CRB2	695065	CRB2	286204
CRB3	700086	CRB3	92359
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CREB1	708717	CREB1	1385
CREB3	696350	CREB3	10488
CREB3L4	715951	CREB3L4	148327
CREBBP	704331	CREBBP	1387
CREBL2	696952	CREBL2	1389
CREBRF	703459	CREBRF	153222
CREBZF	702942	CREBZF	58487
CREG1	701021	CREG1	8804
CREG2	711082	CREG2	200407
CRELD1	699345	CRELD1	78987

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CRH	702877	CRH	1392
CRHBP	707589	CRHBP	1393
CRHR1	574095	CRHR1	1394
CRHR2	697404	CRHR2	1395
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CRIP3	699610	CRIP3	401262
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CRISP2	706747	CRISP2	7180
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CRISPLD1	697491	CRISPLD1	83690
CRISPLD2	715516	CRISPLD2	83716
CRKL	696584	CRKL	1399
CRLF1	720247	CRLF1	9244
CRLF3	713495	CRLF3	51379
CRNN	712894	CRNN	49860
CROCC	710793	CROCC	9696
CROT	706186	CROT	54677
CRP	719454	CRP	1401
CRTAC1	707486	CRTAC1	55118
CRTAM	707560	CRTAM	56253
CRTAP	705949	CRTAP	10491
CRTC1	720274	CRTC1	23373
CRTC2	715908	CRTC2	200186
CRTC3	709458	CRTC3	64784
CRX	717550	CRX	1406
CRY1	703752	CRY1	1407
CRY2	715000	CRY2	1408
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CRYM	697588	CRYM	1428
CRYZ	704403	CRYZ	1429
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CSAG2	705860	CSAG2	728461
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CSDE1	708897	CSDE1	7812
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CSF1	702532	CSF1	1435
CSF1R	711512	CSF1R	1436
CSF2	574371	CSF2	1437
CSF2RB	697508	CSF2RB	1439
CSF3	698961	CSF3	1440
CSF3R	713485	CSF3R	1441
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CSH-3	718135	CSH1	1442
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CSTB	713504	CSTB	1476
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CSTF2T	703468	CSTF2T	23283
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CTBP2	695124	CTBP2	1488
CTBS	710366	CTBS	1486

CTCF	698976	CTCF	10664
CTCFL	701500	CTCFL	140690
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CTDSP2	715956	CTDSP2	10106
CTDSPL2	711917	CTDSPL2	51496
CTF1	713850	CTF1	1489
CTHRC1	694882	CTHRC1	115908
CTLA4	705673	CTLA4	1493
CTNNA1	574385	CTNNA1	1495
CTNNA2	712135	CTNNA2	1496
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CTPS	695498	CTPS1	1503
CTR9	705748	CTR9	9646
CTRB1	711100	CTRB1	1504
CTRB2	713851	CTRB2	440387
CTRC	700762	CTRC	11330
CTRL	701625	CTRL	1506
CTSA	708592	CTSA	5476
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CTSC	705320	CTSC	1075
CTSD	703534	CTSD	1509
CTSE	696202	CTSE	1510
CTSG	716440	CTSG	1511
CTSH	711437	CTSH	1512
CTSK	574112	CTSK	1513
CTSL	694569	CTSL1	1514
CTSL2	710850	CTSL2	1515

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CTSW	715505	CTSW	1521
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CTU1	719536	CTU1	90353
CTU2	100424255	CTU2	348180
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CTXN2	100428496	CTXN2	399697
CTXN3	704352	CTXN3	613212
CUEDC2	713243	CUEDC2	79004
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CUL3	707550	CUL3	8452
CUL4B	696410	CUL4B	8450
CUL5	707559	CUL5	8065
CUL7	699545	CUL7	9820
CUTA	718364	CUTA	51596
CUTC	709050	CUTC	51076
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CUZD1	706861	CUZD1	50624
CWC15	698332	CWC15	51503
CWC22	704087	CWC22	57703
CWC25	695474	CWC25	54883
CWF19L1	710630	CWF19L1	55280
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CX3CL1	574225	CX3CL1	6376
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CXCL3	574223	CXCL3	2921
CXCL5	701697	CXCL5	6374
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CXCL9	574336	CXCL9	4283
CXCR1	692074	CXCR1	3577
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CXCR5	701792	CXCR5	643
CXCR6	713829	CXCR6	10663
CXCR7	694428	CXCR7	57007
CXHXorf21	704259	CXorf21	80231
CXHXorf26	705125	CXorf26	51260
CXHXorf36	709814	CXorf36	79742
CXHXorf38	699271	CXorf38	159013
CXHXorf41	701971	CXorf41	139212
CXHXorf48	709338	CXorf48	54967
CXHXorf57	700757	CXorf57	55086
CXHXorf64	700923	CXorf64	100130613
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CXorf40A	702659	CXorf40A	91966
CXXC1	700341	CXXC1	30827
CXXC5	694746	CXXC5	51523
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CYB5A	694723	CYB5A	1528
CYB5B	705093	CYB5B	80777
CYB5D1	716429	CYB5D1	124637
CYB5D2	708196	CYB5D2	124936
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CYB5R3	714058	CYB5R3	1727
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CYHR1	702522	CYHR1	50626
CYLC2	713423	CYLC2	1539
CYLD	695652	CYLD	1540
CYorf15A	100270688	TXLNG2P	246126
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CYSLTR2	705450	CYSLTR2	57105
CYSTM1	697656	CYSTM1	84418
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CYTH1	710305	CYTH1	9267
CYTH2	718682	CYTH2	9266
CYTH4	696837	CYTH4	27128
CYTIP	697677	CYTIP	9595
CYTL1	711664	CYTL1	54360
CYYR1	708008	CYYR1	116159
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DCAF5	714522	DCAF5	8816
DCAF6	698686	DCAF6	55827
DCAF8L1	702884	DCAF8L1	139425
DCAF8L2	702202	DCAF8L2	347442

DCAKD	715841	DCAKD	79877
DCBLD1	715234	DCBLD1	285761
DCBLD2	700151	DCBLD2	131566
DCC	693352	DCC	1630
DCDC1	696346	DCDC1	341019
DCDC2	707472	DCDC2	51473
DCHS1	711938	DCHS1	8642
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DCLK2	693566	DCLK2	166614
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DCLRE1A	697882	DCLRE1A	9937
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DCN	709933	DCN	1634
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DCP2	694225	DCP2	167227
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DCST2	717224	DCST2	127579
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DCXR	715513	DCXR	51181

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DDB2	713813	DDB2	1643
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DDIT3	714901	DDIT3	1649
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DDX28	701929	DDX28	55794
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DDX39B	715233	DDX39B	7919
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DDX4	706943	DDX4	54514
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DDX42	717964	DDX42	11325
DDX43	715849	DDX43	55510
DDX46	711026	DDX46	9879

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DDX5	677694	DDX5	1655
DDX50	712511	DDX50	79009
DDX52	714492	DDX52	11056
DDX53	699052	DDX53	168400
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DDX55	709884	DDX55	57696
DDX56	698980	DDX56	54606
DDX58	704638	DDX58	23586
DDX6	701441	DDX6	1656
DDX60	693567	DDX60	55601
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DEAF1	720821	DEAF1	10522
DECR1	696035	DECR1	1666
DEDD	719875	DEDD	9191
DEF8	699856	DEF8	54849
DEFA6	717000	DEFA6	1671
DEFB1	574187	DEFB1	1672
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DEFB103A	694235	DEFB103B	55894
DEFB108B	696933	DEFB108B	245911
DEFB110	707363	DEFB110	245913
DEFB114	707151	DEFB114	245928
DEFB115	713977	DEFB115	245929
DEFB116	716397	DEFB116	245930
DEFB118	641438	DEFB118	117285
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DEFB123	619504	DEFB123	245936
DEFB124	713413	DEFB124	245937
DEFB125	714029	DEFB125	245938
DEFB128	716478	DEFB128	245939
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DEFB4A	574144	DEFB4B	100289462
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DEM1	694536	DEM1	64789
DENND1A	698028	DENND1A	57706
DENND1B	713131	DENND1B	163486
DENND2C	710883	DENND2C	163259
DENND2D	702568	DENND2D	79961
DENND3	693759	DENND3	22898
DENND4A	709675	DENND4A	10260
DENND5A	707945	DENND5A	23258
DENND5B	694421	DENND5B	160518
DEPDC1	701888	DEPDC1	55635
DEPDC1B	709670	DEPDC1B	55789
DEPTOR	702649	DEPTOR	64798
DERA	701427	DERA	51071
DERL1	703803	DERL1	79139
DERL2	712051	DERL2	51009
DERL3	699316	DERL3	91319
DES	703300	DES	1674
DET1	697994	DET1	55070
DEXI	100430901	DEXI	28955
DFFA	713544	DFFA	1676
DFNA5	703441	DFNA5	1687
DFNB31	708051	DFNB31	25861
DGAT1	701489	DGAT1	8694
DGAT2L6	694889	DGAT2L6	347516
DGCR14	711157	DGCR14	8220
DGCR6	693512	DGCR6	8214

DGCR8	100425351	DGCR8	54487
DGKA	710559	DGKA	1606
DGKB	715254	DGKB	1607
DGKD	714210	DGKD	8527
DGKG	699967	DGKG	1608
DGKH	699337	DGKH	160851
DGKI	709578	DGKI	9162
DGKK	695126	DGKK	139189
DGKZ	713198	DGKZ	8525
DGUOK	707554	DGUOK	1716
DHCR24	717022	DHCR24	1718
DHDDS	714635	DHDDS	79947
DHFR	707382	DHFR	1719
DHFR	711268	DHFR	1719
DHODH	706936	DHODH	1723
DHPS	716213	DHPS	1725
DHRS1	715933	DHRS1	115817
DHRS11	713823	DHRS11	79154
DHRS13	710755	DHRS13	147015
DHRS3	715548	DHRS3	9249
DHRS4	714613	DHRS4	10901
DHRS7	702872	DHRS7	51635
DHRS7B	704869	DHRS7B	25979
DHRS9	705554	DHRS9	10170
DHX15	715852	DHX15	1665
DHX16	713836	DHX16	8449
DHX29	706306	DHX29	54505
DHX32	695919	DHX32	55760
DHX33	711977	DHX33	56919
DHX35	697673	DHX35	60625
DHX36	708112	DHX36	170506
DHX37	706709	DHX37	57647
DHX38	709173	DHX38	9785
DHX57	713523	DHX57	90957

DHX58	709116	DHX58	79132
DHX8	713228	DHX8	1659
DHX9	715453	DHX9	1660
DIAPH1	700918	DIAPH1	1729
DIAPH2	699140	DIAPH2	1730
DIAPH3	695990	DIAPH3	81624
DICER1	702516	DICER1	23405
DIDO1	698313	DIDO1	11083
DIEXF	712825	DIEXF	27042
DIMT1L	696688	DIMT1	27292
DIO1	714739	DIO1	1733
DIO2	707484	DIO2	1734
DIO3	708027	DIO3	1735
DIP2A	721788	DIP2A	23181
DIP2B	693515	DIP2B	57609
DIRAS1	711495	DIRAS1	148252
DIRAS2	703987	DIRAS2	54769
DIRAS3	701273	DIRAS3	9077
DIS3	694048	DIS3	22894
DIS3L	710238	DIS3L	115752
DISC1	719086	DISC1	27185
DISP1	703960	DISP1	84976
DIXDC1	710847	DIXDC1	85458
DKC1	702563	DKC1	1736
DKK1	702997	DKK1	22943
DKK2	694869	DKK2	27123
DKK3	701549	DKK3	27122
DKK4	705011	DKK4	27121
DKKL1	718731	DKKL1	27120
DLAT	710930	DLAT	1737
DLC1	700630	DLC1	10395
DLD	700494	DLD	1738
DLEC1	697163	DLEC1	9940
DLEU7	707886	DLEU7	220107

DLG1	709572	DLG1	1739
DLG3	697179	DLG3	1741
DLG4	714273	DLG4	1742
DLGAP1	694049	DLGAP1	9229
DLGAP3	711238	DLGAP3	58512
DLGAP4	702928	DLGAP4	22839
DLGAP5	696772	DLGAP5	9787
DLK1	707595	DLK1	8788
DLK2	700106	DLK2	65989
DLL1	714731	DLL1	28514
DLL3	697453	DLL3	10683
DLL4	704898	DLL4	54567
DLST	701006	DLST	1743
DLX1	695620	DLX1	1745
DLX2	695739	DLX2	1746
DLX3	700831	DLX3	1747
DLX4	700706	DLX4	1748
DLX5	697853	DLX5	1749
DMBT1	574192	DMBT1	1755
DMBX1	709514	DMBX1	127343
DMC1	700935	DMC1	11144
DMP1	701692	DMP1	1758
DMPK	715328	DMPK	1760
DMRT2	697088	DMRT2	10655
DMRT3	697323	DMRT3	58524
DMRTA1	708726	DMRTA1	63951
DMRTC1	704619	DMRTC1B	728656
DMRTC1	704619	DMRTC1	63947
DMRTC2	706178	DMRTC2	63946
DMTF1	706292	DMTF1	9988
DMXL1	698117	DMXL1	1657
DNA2	694401	DNA2	1763
DNAH1	697401	DNAH1	25981
DNAH10	710343	DNAH10	196385

DNAH5	717339	DNAH5	1767
DNAH6	694115	DNAH6	1768
DNAH7	695393	DNAH7	56171
DNAH8	719528	DNAH8	1769
DNAI1	701307	DNAI1	27019
DNAI2	696977	DNAI2	64446
DNAJA1	703765	DNAJA1	3301
DNAJA2	695169	DNAJA2	10294
DNAJA3	708783	DNAJA3	9093
DNAJA4	709872	DNAJA4	55466
DNAJB11	699482	DNAJB11	51726
DNAJB2	702936	DNAJB2	3300
DNAJB6	693305	DNAJB6	10049
DNAJB7	705916	DNAJB7	150353
DNAJB8	705667	DNAJB8	165721
DNAJB9	701094	DNAJB9	4189
DNAJC1	704151	DNAJC1	64215
DNAJC10	705787	DNAJC10	54431
DNAJC11	705057	DNAJC11	55735
DNAJC12	695795	DNAJC12	56521
DNAJC13	717741	DNAJC13	23317
DNAJC14	709932	DNAJC14	85406
DNAJC15	700339	DNAJC15	29103
DNAJC17	704013	DNAJC17	55192
DNAJC19	710082	DNAJC19	131118
DNAJC2	695890	DNAJC2	27000
DNAJC22	710205	DNAJC22	79962
DNAJC24	696221	DNAJC24	120526
DNAJC25	708100	DNAJC25	548645
DNAJC27	694037	DNAJC27	51277
DNAJC28	699233	DNAJC28	54943
DNAJC3	695757	DNAJC3	5611
DNAJC30	716630	DNAJC30	84277
DNAJC4	717847	DNAJC4	3338

DNAJC5	694810	DNAJC5	80331
DNAJC5B	702408	DNAJC5B	85479
DNAJC6	698682	DNAJC6	9829
DNAJC7	708729	DNAJC7	7266
DNAJC8	720231	DNAJC8	22826
DNAJC9	707599	DNAJC9	23234
DNAL1	697410	DNAL1	83544
DNAL4	702019	DNAL4	10126
DNALI1	713912	DNALI1	7802
DNASE1	704119	DNASE1	1773
DNASE1L1	100425571	DNASE1L1	1774
DNASE1L3	702613	DNASE1L3	1776
DNASE2B	710197	DNASE2B	58511
DNCI1	574351	DYNC1I1	1780
DNER	710384	DNER	92737
DNLZ	721763	DNLZ	728489
DNM1	717697	DNM1	1759
DNM1L	695388	DNM1L	10059
DNM2	713558	DNM2	1785
DNM3	705300	DNM3	26052
DNMBP	694526	ARHGEF38	54848
DNMBP	709334	DNMBP	23268
DNMT3A	694822	DNMT3A	1788
DNMT3B	711553	DNMT3B	1789
DNMT3L	722184	DNMT3L	29947
DNPEP	703180	DNPEP	23549
DNTT	704482	DNTT	1791
DNTTIP1	709468	DNTTIP1	116092
DOC2A	707895	DOC2A	8448
DOC2B	699082	DOC2B	8447
DOCK10	707649	DOCK10	55619
DOCK3	701151	DOCK3	1795
DOCK4	703726	DOCK4	9732
DOCK5	711359	DOCK5	80005

DOCK6	716279	DOCK6	57572
DOCK7	697028	DOCK7	85440
DOCK9	702426	DOCK9	23348
DOHH	713046	DOHH	83475
DOK1	710118	DOK1	1796
DOK4	704443	DOK4	55715
DOK5	698689	DOK5	55816
DOK6	703667	DOK6	220164
DOLK	717045	DOLK	22845
DOM3Z	716027	DOM3Z	1797
DONSON	698853	DONSON	29980
DOPEY1	694339	DOPEY1	23033
DOPEY2	695420	DOPEY2	9980
DOT1L	710033	DOT1L	84444
DPAGT1	703538	DPAGT1	1798
DPEP1	699725	DPEP1	1800
DPEP2	701570	DPEP2	64174
DPEP3	701327	DPEP3	64180
DPH5	712253	DPH5	51611
DPM1	701283	DPM1	8813
DPM2	698709	DPM2	8818
DPM3	717446	DPM3	54344
DPP10	714671	DPP10	57628
DPP3	721809	DPP3	10072
DPP4	654491	DPP4	1803
DPP8	709428	DPP8	54878
DPPA2	708056	DPPA2	151871
DPY19L1	707780	DPY19L1	23333
DPY19L3	702159	DPY19L3	147991
DPY19L4	700921	DPY19L4	286148
DPY30	706155	DPY30	84661
DPYD	715672	DPYD	1806
DPYS	695342	DPYS	1807
DPYSL2	712368	DPYSL2	1808

DPYSL3	708425	DPYSL3	1809
DPYSL4	722689	DPYSL4	10570
DPYSL5	699648	DPYSL5	56896
DQX1	709749	DQX1	165545
DR1	707632	DR1	1810
DRAM1	697427	DRAM1	55332
DRAM2	702812	DRAM2	128338
DRAP1	715271	DRAP1	10589
DRD2	694181	DRD2	1813
DRD4	699697	DRD4	1815
DRD5	712862	DRD5	1816
DRG1	716791	DRG1	4733
DRG2	699952	DRG2	1819
DRGX	719355	DRGX	644168
DROSHA	692081	DROSHA	29102
DRP2	702655	DRP2	1821
DSC1	705332	DSC1	1823
DSCAM	722556	DSCAM	1826
DSCAML1	698212	DSCAML1	57453
DSCC1	702520	DSCC1	79075
DSCR3	693934	DSCR3	10311
DSE	716054	DSE	29940
DSEL	709898	DSEL	92126
DSG1	705452	DSG1	1828
DSG2	705805	DSG2	1829
DSG3	705685	DSG3	1830
DSG4	713015	DSG4	147409
DSN1	702251	DSN1	79980
DSP	694860	DSP	1832
DSPP	701581	DSPP	1834
DST	100430705	DST	667
DSTYK	664732	DSTYK	25778
DTD1	697009	HARS2	23438
DTD1	700895	DTD1	92675

DTHD1	702229	DTHD1	401124
DTL	711236	DTL	51514
DTNA	707887	DTNA	1837
DTWD1	715084	DTWD1	56986
DTWD2	697989	DTWD2	285605
DTX2	719916	DTX2	113878
DTX3L	714914	DTX3L	151636
DTX4	700410	DTX4	23220
DTYMK	701781	DTYMK	1841
DUOX1	713126	DUOX1	53905
DUOXA1	713058	DUOXA1	90527
DUOXA2	712992	DUOXA2	405753
DUS1L	715662	DUS1L	64118
DUS2L	702051	DUS2L	54920
DUS4L	699356	DUS4L	11062
DUSP1	702981	DUSP1	1843
DUSP10	705056	DUSP10	11221
DUSP11	707123	DUSP11	8446
DUSP13	704480	DUSP13	51207
DUSP14	714383	DUSP14	11072
DUSP16	696332	DUSP16	80824
DUSP18	716160	DUSP18	150290
DUSP19	706374	DUSP19	142679
DUSP21	702770	DUSP21	63904
DUSP22	705824	DUSP22	56940
DUSP23	719474	DUSP23	54935
DUSP26	697134	DUSP26	78986
DUSP27	697299	DUSP27	92235
DUSP3	713686	DUSP3	1845
DUSP4	714290	DUSP4	1846
DUSP5	698178	DUSP5	1847
DUSP6	708907	DUSP6	1848
DUSP9	696161	DUSP9	1852
DUT	714401	DUT	1854

DVL2	714381	DVL2	1856
DYNC1I2	695696	DYNC1I2	1781
DYNC1LI2	694204	DYNC1LI2	1783
DYNLL1	702360	DYNLL1	8655
DYNLRB2	713503	DYNLRB2	83657
DYNLT3	696789	DYNLT3	6990
DYRK1A	693812	DYRK1A	1859
DYRK1B	698848	DYRK1B	9149
DYRK2	717941	DYRK2	8445
DYRK3	695163	DYRK3	8444
DYSF	704636	DYSF	8291
DYSFIP1	714648	PPP1R27	116729
DYTN	709519	DYTN	391475
DZANK1	700143	DZANK1	55184
DZIP1	695529	DZIP1	22873
DZIP1L	716551	DZIP1L	199221
DZIP3	705573	DZIP3	9666
E2F1	714126	E2F1	1869
E2F2	710200	E2F2	1870
E2F4	696864	E2F4	1874
E2F5	703352	E2F5	1875
E2F6	697311	E2F6	1876
E2F7	694423	E2F7	144455
E2F8	702368	E2F8	79733
E4F1	695882	E4F1	1877
EAFF1	694057	EAFF1	85403
EAFF2	714223	EAFF2	55840
EARS2	700487	EARS2	124454
EBAG9	699305	EBAG9	9166
EBF2	711674	EBF2	64641
EBLN2	693420	EBLN2	55096
EBNA1BP2	699672	EBNA1BP2	10969
ECD	707699	ECD	11319
ECE1	706810	ECE1	1889

ECE2	702851	ECE2	9718
ECEL1	721061	ECEL1	9427
ECH1	694324	ECH1	1891
ECHDC1	712072	ECHDC1	55862
ECHDC3	693583	ECHDC3	79746
ECI1	696243	ECI1	1632
ECI2	709579	ECI2	10455
ECM1	707209	ECM1	1893
ECT2	694056	ECT2	1894
ECT2L	708363	ECT2L	345930
EDA	694110	EDA	1896
EDA2R	710244	EDA2R	60401
EDAR	695059	EDAR	10913
EDARADD	710637	EDARADD	128178
EDC3	709182	EDC3	80153
EDDM3A	704355	EDDM3A	10876
EDDM3B	704471	EDDM3B	64184
EDEM1	703085	EDEM1	9695
EDEM2	706150	EDEM2	55741
EDEM3	714475	EDEM3	80267
EDF1	708611	EDF1	8721
EDIL3	693315	EDIL3	10085
EDN1	699982	EDN1	1906
EDN2	695960	EDN2	1907
EDN3	693385	EDN3	1908
EDNRA	704135	EDNRA	1909
EDNRB	697329	EDNRB	1910
EEA1	710381	EEA1	8411
EED	703866	EED	8726
EEF1A1	716010	EEF1A1	1915
EEF1B2	707019	EEF1B2	1933
EEF1D	705310	EEF1D	1936
EEF1E1	695426	EEF1E1	9521
EEF1G	722274	EEF1G	1937

EEF2	721806	EEF2	1938
EEF2K	698604	EEF2K	29904
EEFSEC	705784	EEFSEC	60678
EEPD1	706642	EEPD1	80820
EFCAB1	708842	EFCAB1	79645
EFCAB11	695233	EFCAB11	90141
EFCAB3	717476	EFCAB3	146779
EFCAB5	717087	EFCAB5	374786
EFCAB6	712043	EFCAB6	64800
EFCAB7	696830	EFCAB7	84455
EFEMP2	721877	EFEMP2	30008
EFHA1	706065	EFHA1	221154
EFHA2	701957	EFHA2	286097
EFHB	697457	EFHB	151651
EFHC1	708517	EFHC1	114327
EFHD1	717627	EFHD1	80303
EFHD2	694155	EFHD2	79180
EFNA3	717373	EFNA3	1944
EFNA5	704351	EFNA5	1946
EFNB1	694149	EFNB1	1947
EFNB3	716257	EFNB3	1949
EFS	713838	EFS	10278
EFTUD1	713570	EFTUD1	79631
EFTUD2	715512	EFTUD2	9343
EGF	698619	EGF	1950
EGFL6	711280	EGFL6	25975
EGFL7	709840	EGFL7	51162
EGFL8	717145	EGFL8	80864
EGFLAM	693314	EGFLAM	133584
EGFR	613027	EGFR	1956
EGLN1	713410	EGLN1	54583
EGLN2	703083	EGLN2	112398
EGLN3	717342	EGLN3	112399
EGR1	716786	EGR1	1958

EGR2	698132	EGR2	1959
EHBP1	693902	EHBP1	23301
EHBP1L1	721918	EHBP1L1	254102
EHD1	722036	EHD1	10938
EHD3	705316	EHD3	30845
EHD4	707376	EHD4	30844
EHF	717350	EHF	26298
EHF	707937	ELF3	1999
EHHADH	701193	EHHADH	1962
EI24	713226	EI24	9538
EID1	714659	EID1	23741
EID2	717578	EID2	163126
EID2B	717621	EID2B	126272
EID3	701175	EID3	493861
EIF1	718407	EIF1	10209
EIF1AD	715063	EIF1AD	84285
EIF1AX	695456	EIF1AX	1964
EIF1AY	100270695	EIF1AY	9086
EIF1B	717109	EIF1B	10289
EIF2A	710497	EIF2A	83939
EIF2AK1	703325	EIF2AK1	27102
EIF2AK2	708912	EIF2AK2	5610
EIF2AK3	699575	EIF2AK3	9451
EIF2AK4	100428309	EIF2AK4	440275
EIF2B1	705438	EIF2B1	1967
EIF2B2	701360	EIF2B2	8892
EIF2B3	705862	EIF2B3	8891
EIF2B4	700322	EIF2B4	8890
EIF2B5	703673	EIF2B5	8893
EIF2C3	712543	EIF2C3	192669
EIF2C4	713134	EIF2C4	192670
EIF2D	695274	EIF2D	1939
EIF2S1	710150	EIF2S1	1965
EIF2S2	708593	EIF2S2	8894

EIF2S3	698763	EIF2S3	1968
EIF3A	713211	EIF3A	8661
EIF3B	698481	EIF3B	8662
EIF3D	695051	EIF3D	8664
EIF3E	697622	EIF3E	3646
EIF3F	706269	EIF3F	8665
EIF3G	714726	EIF3G	8666
EIF3H	700517	EIF3H	8667
EIF3I	708145	EIF3I	8668
EIF3J	712295	EIF3J	8669
EIF3K	693536	EIF3K	27335
EIF3L	699189	EIF3L	51386
EIF3M	695698	EIF3M	10480
EIF4A1	695050	EIF4A1	1973
EIF4A2	707775	EIF4A2	1974
EIF4A3	712141	EIF4A3	9775
EIF4B	700688	EIF4B	1975
EIF4E	706751	EIF4E	1977
EIF4E2	713487	EIF4E2	9470
EIF4E3	696303	EIF4E3	317649
EIF4EBP1	703628	EIF4EBP1	1978
EIF4EBP2	100424761	EIF4EBP2	1979
EIF4G1	704923	EIF4G1	1981
EIF4G2	705510	EIF4G2	1982
EIF4H	693429	EIF4H	7458
EIF5A2	695647	EIF5A2	56648
EIF5B	714129	EIF5B	9669
ELA2B	694691	CELA2A	63036
ELAVL1	705806	ELAVL1	1994
ELAVL2	708195	ELAVL2	1993
ELAVL4	711231	ELAVL4	1996
ELF1	697952	ELF1	1997
ELF2	696760	ELF2	1998
ELF5	717377	ELF5	2001

ELFN1	697716	ELFN1	392617
ELFN2	697071	ELFN2	114794
ELK1	712610	ELK1	2002
ELK3	713100	ELK3	2004
ELK4	699281	ELK4	2005
ELL	720221	ELL	8178
ELL2	699506	ELL2	22936
ELL3	711271	ELL3	80237
ELMO1	705818	ELMO1	9844
ELMO2	707316	ELMO2	63916
ELMOD1	707026	ELMOD1	55531
ELMOD2	698742	ELMOD2	255520
ELMOD3	695180	ELMOD3	84173
ELN	574132	ELN	2006
ELOF1	715007	ELOF1	84337
ELOVL1	700557	ELOVL1	64834
ELOVL2	703030	ELOVL2	54898
ELOVL3	712927	ELOVL3	83401
ELOVL4	692070	ELOVL4	6785
ELOVL6	698870	ELOVL6	79071
ELOVL7	709866	ELOVL7	79993
ELP3	713512	ELP3	55140
ELP4	695979	ELP4	26610
ELSPBP1	718468	ELSPBP1	64100
ELTD1	711589	ELTD1	64123
EMB	702068	EMB	133418
EMC1	702573	EMC1	23065
EMC10	719285	EMC10	284361
EMC2	697878	EMC2	9694
EMC4	695907	EMC4	51234
EMC6	707030	EMC6	83460
EMD	699400	EMD	2010
EME2	722482	EME2	197342
EMG1	722122	EMG1	10436

EMILIN1	698204	EMILIN1	11117
EMILIN2	695758	EMILIN2	84034
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FGF3	708918	FGF3	2248
FGF4	709016	FGF4	2249
FGF5	695896	FGF5	2250
FGF6	710739	FGF6	2251
FGF7	574345	FGF7	2252
FGFBP1	714505	FGFBP1	9982
FGFBP2	714554	FGFBP2	83888
FGFR1OP	706749	FGFR1OP	11116
FGFR1OP2	708905	FGFR1OP2	26127
FGFR3	712829	FGFR3	2261
FGFR4	698494	FGFR4	2264
FGFRL1	702927	FGFRL1	53834
FGG	698363	FGG	2266
FGL2	694856	FGL2	10875
FGR	716296	FGR	2268

FH	707542	FH	2271
FHAD1	699900	FHAD1	114827
FHDC1	696136	FHDC1	85462
FHIT	700974	FHIT	2272
FHL1	710692	FHL1	2273
FHL2	713222	FHL2	2274
FHL3	715313	FHL3	2275
FHL5	704568	FHL5	9457
FHOD1	697346	FHOD1	29109
FHOD3	709762	FHOD3	80206
FIBIN	699699	FIBIN	387758
FIBP	715457	FIBP	9158
FICD	706780	FICD	11153
FIG4	699914	FIG4	9896
FIGF	712654	FIGF	2277
FIGN	702456	FIGN	55137
FIGNL2	695808	FIGNL2	401720
FILIP1	716439	FILIP1	27145
FILIP1L	699594	FILIP1L	11259
FIP1L1	697725	FIP1L1	81608
FIS1	714444	FIS1	51024
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FITM2	693640	FITM2	128486
FKBP10	707881	FKBP10	60681
FKBP14	696247	FKBP14	55033
FKBP15	710073	FKBP15	23307
FKBP1A	717385	FKBP1A	2280
FKBP1B	703973	FKBP1B	2281
FKBP2	708598	FKBP11	51303
FKBP2	717805	FKBP2	2286
FKBP3	702405	FKBP3	2287
FKBP4	708481	FKBP4	2288
FKBP6	716306	FKBP6	8468
FKBP7	703299	FKBP7	51661

FKBP8	720232	FKBP8	23770
FKBPL	717079	FKBPL	63943
FKRP	716804	FKRP	79147
FLAD1	717133	FLAD1	80308
FLCN	698082	FLCN	201163
FLG2	717480	FLG2	388698
FLI1	714748	FLI1	2313
FLII	700471	FLII	2314
FLNA	699524	FLNA	2316
FLNB	702732	FLNB	2317
FLOT1	714175	FLOT1	10211
FLRT1	717942	FLRT1	23769
FLRT2	709329	FLRT2	23768
FLRT3	694694	FLRT3	23767
FLT1	574133	FLT1	2321
FLT3	721712	FLT3	2322
FLT3LG	719239	FLT3LG	2323
FLT4	716412	FLT4	2324
FLVCR1	710008	FLVCR1	28982
FLYWCH1	700909	FLYWCH1	84256
FMN2	708376	FMN2	56776
FMNL1	716211	FMNL1	752
FMNL2	695391	FMNL2	114793
FMNL3	712659	FMNL3	91010
FMO1	703743	FMO1	2326
FMO2	703639	FMO2	2327
FMO3	574244	FMO3	2328
FMO4	704074	FMO4	2329
FMO5	709691	FMO5	2330
FMOD	703048	FMOD	2331
FMR1	700138	FMR1	2332
FMR1NB	704191	FMR1NB	158521
FN1	613269	FN1	2335
FN3KRP	716431	FN3KRP	79672

FNBP1L	713578	FNBP1L	54874
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FNDC4	702098	FNDC4	64838
FNDC7	699018	FNDC7	163479
FNDC8	715372	FNDC8	54752
FNTB	708129	FNTB	2342
FOLR1	718388	FOLR1	2348
FOLR2	718405	FOLR2	2350
FOLR4	698653	FOLR4	390243
FOS	702077	FOS	2353
FOSL2	703068	FOSL2	2355
FOXA1	697909	FOXA1	3169
FOXA2	701771	FOXA2	3170
FOXA3	715663	FOXA3	3171
FOXB1	703577	FOXB1	27023
FOXB2	704969	FOXB2	442425
FOXC1	722918	FOXC1	2296
FOXC2	694852	FOXC2	2303
FOXD3	696085	FOXD3	27022
FOXF1	694454	FOXF1	2294
FOXI1	700122	FOXI1	2299
FOXI2	703280	FOXI2	399823
FOXJ1	706275	FOXJ1	2302
FOXJ3	696573	FOXJ3	22887
FOXM1	708805	FOXM1	2305
FOXN1	708926	FOXN1	8456
FOXN2	715878	FOXN2	3344
FOXN3	694756	FOXN3	1112
FOXN4	707014	FOXN4	121643
FOXO1	700030	FOXO1	2308
FOXO3	700731	FOXO3	2309
FOXP1	694726	FOXP1	27086
FOXP2	613237	FOXP2	93986

FOXP3	574303	FOXP3	50943
FOXP4	693943	FOXP4	116113
FOXQ1	722908	FOXQ1	94234
FOXR1	707285	FOXR1	283150
FOXR2	704032	FOXR2	139628
FOXRED2	695695	FOXRED2	80020
FPGS	699587	FPGS	2356
FPR1	719782	FPR1	2357
FPR2	100426968	FPR2	2358
FPR3	719802	FPR3	2359
FRA10AC1	700389	FRA10AC1	118924
FRAT1	705609	FRAT1	10023
FRAT2	705730	FRAT2	23401
FREM1	713874	FREM1	158326
FREM2	696113	FREM2	341640
FREM3	704182	FREM3	166752
FRG1	698743	FRG1	2483
FRK	716267	FRK	2444
FRMD1	694078	FRMD1	79981
FRMD3	713394	FRMD3	257019
FRMD4B	698033	FRMD4B	23150
FRMD5	711670	FRMD5	84978
FRMD7	705736	FRMD7	90167
FRMD8	716379	FRMD8	83786
FRMPD1	716380	FRMPD1	22844
FRMPD4	710334	FRMPD4	9758
FRS3	694462	FRS3	10817
FRYL	705707	FRYL	285527
FRZB	706048	FRZB	2487
FSCB	701592	FSCB	84075
FSCN2	713824	FSCN2	25794
FSCN3	698236	FSCN3	29999
FSD2	693575	FSD2	123722
FSHB	697317	FSHB	2488

FSHR	716123	FSHR	2492
FSIP1	701001	FSIP1	161835
FST	707420	FST	10468
FSTL4	709868	FSTL4	23105
FSTL5	677713	FSTL5	56884
FTH1	574118	FTH1	2495
FTHL17	707851	FTHL17	53940
FTL	718964	FTL	2512
FTMT	699743	FTMT	94033
FTO	703724	FTO	79068
FTSJ1	710243	FTSJ1	24140
FTSJ2	698100	FTSJ2	29960
FTSJ3	718009	FTSJ3	117246
FTSJD1	711529	FTSJD1	55783
FTSJD2	719402	FTSJD2	23070
FUBP1	707102	FUBP1	8880
FUBP3	722470	FUBP3	8939
FUCA1	710993	FUCA1	2517
FUCA2	700611	FUCA2	2519
FUK	709226	FUK	197258
FUNDC1	696024	FUNDC1	139341
FUNDC2	574259	FUNDC2	65991
FURIN	715813	FURIN	5045
FUT1	718252	FUT1	2523
FUT10	697659	FUT10	84750
FUT11	706552	FUT11	170384
FUT3	697582	FUT3	2525
FUT4	698078	FUT4	2526
FUT5	697452	FUT5	2527
FUT8	708839	FUT8	2530
FUT9	708361	FUT9	10690
FXC1	711085	FXC1	26515
FXN	699469	FXN	2395
FXR1	710170	FXR1	8087

FXR2	721889	FXR2	9513
FXYD2	704049	FXYD2	486
FXYD3	707346	FXYD3	5349
FXYD6	698456	FXYD6	53826
FYB	693951	FYB	2533
FYCO1	713756	FYCO1	79443
FYN	574214	FYN	2534
FYTTD1	714705	FYTTD1	84248
FZD1	703942	FZD1	8321
FZD10	717812	FZD10	11211
FZD3	713839	FZD3	7976
FZD4	704754	FZD4	8322
FZD6	694625	FZD6	8323
FZD7	703064	FZD7	8324
FZD8	708368	FZD8	8325
FZR1	721711	FZR1	51343
G2E3	717021	G2E3	55632
G3BP1	713884	G3BP1	10146
G3BP2	701343	G3BP2	9908
G6PC	712053	G6PC	2538
G6PC3	714276	G6PC3	92579
G6PD	701137	G6PD	2539
GAA	712054	GAA	2548
GAB1	700367	GAB1	2549
GAB2	700197	GAB2	9846
GAB3	701859	GAB3	139716
GABARAP	714597	GABARAP	11337
GABARAP	702827	GABARAP	11337
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GABARAPL1	717640	GABARAPL1	23710
GABARAPL2	714413	GABARAPL2	11345
GABBR1	708987	GABBR1	2550
GABPA	708312	GABPA	2551
GABPB1	715334	GABPB1	2553

GABRA1	574302	GABRA1	2554
GABRA2	703894	GABRA2	2555
GABRA3	711230	GABRA3	2556
GABRA4	704008	GABRA4	2557
GABRA5	711838	GABRA5	2558
GABRA6	697010	GABRA6	2559
GABRB1	711217	GABRB1	2560
GABRB2	696767	GABRB2	2561
GABRB3	711754	GABRB3	2562
GABRE	704693	GABRE	2564
GABRG2	697248	GABRG2	2566
GABRP	701113	GABRP	2568
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GABRR2	700858	GABRR2	2570
GABRR3	698660	GABRR3	200959
GAD1	613030	GAD1	2571
GAD2	613029	GAD2	2572
GADD45A	701054	GADD45A	1647
GADD45B	711257	GADD45B	4616
GADD45G	697835	GADD45G	10912
GADL1	706457	GADL1	339896
GAGE8	693330	GAGE10	643832
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GAK	703406	GAK	2580
GAL3ST1	715998	GAL3ST1	9514
GAL3ST3	714845	GAL3ST3	89792
GAL3ST4	711504	GAL3ST4	79690
GALC	693322	GALC	2581
GALE	710553	GALE	2582
GALK1	703873	GALK1	2584
GALK2	714866	GALK2	2585
GALNT1	708930	GALNT1	2589
GALNT10	714287	GALNT10	55568

GALNT11	715572	GALNT11	63917
GALNT12	715128	GALNT12	79695
GALNT14	705068	GALNT14	79623
GALNT2	714371	GALNT2	2590
GALNT3	707605	GALNT3	2591
GALNT4	100430612	GALNT4	8693
GALNT5	697430	GALNT5	11227
GALNT6	695019	GALNT6	11226
GALNT7	696924	GALNT7	51809
GALNT9	710382	GALNT9	50614
GALNTL1	714574	GALNTL1	57452
GALNTL4	701790	GALNTL4	374378
GALNTL6	695898	GALNTL6	442117
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GALR1	697450	GALR1	2587
GALR2	705684	GALR2	8811
GALR3	701727	GALR3	8484
GAMT	721263	GAMT	2593
GAN	713996	GAN	8139
GANAB	718672	GANAB	23193
GANC	708126	GANC	2595
GAP43	711260	GAP43	2596
GAPDH	574353	GAPDH	2597
GAPDHS	709485	GAPDHS	26330
GAPT	708948	GAPT	202309
GAPVD1	712449	GAPVD1	26130
GART	704926	GART	2618
GAS2	700952	GAS2	2620
GAS2L2	716209	GAS2L2	246176
GAS2L3	694895	GAS2L3	283431
GAS6	716066	GAS6	2621
GAS8	701458	GAS8	2622
GAST	707564	GAST	2520
GATA2	705551	GATA2	2624

GATA3	713840	GATA3	2625
GATA4	696775	GATA4	2626
GATA6	699591	GATA6	2627
GATAD1	100427195	GATAD1	57798
GATAD2B	715789	GATAD2B	57459
GATM	713306	GATM	2628
GATSL2	694456	GATSL2	729438
GBA2	696062	GBA2	57704
GBAS	715352	GBAS	2631
GBE1	722884	GBE1	2632
GBF1	714579	GBF1	8729
GBP1	694538	GBP1	2633
GBP2	694684	GBP2	2634
GBP3	694283	GBP3	2635
GBP6	695271	GBP6	163351
GBX2	693901	GBX2	2637
GC	705708	GC	2638
GCA	702138	GCA	25801
GCAT	698811	GCAT	23464
GCC1	697975	GCC1	79571
GCDH	716935	GCDH	2639
GCET2	707891	GCET2	257144
GCFC1	700489	GCFC1	94104
GCG	705508	GCG	2641
GCGR	714542	GCGR	2642
GCH1	695675	GCH1	2643
GCHFR	708886	GCHFR	2644
GCK	699728	GCK	2645
GCKR	701431	GCKR	2646
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GCM2	698614	GCM2	9247
GCN1L1	698528	GCN1L1	10985
GCNT1	704639	GCNT1	2650

GCNT2	697468	GCNT2	2651
GCNT3	702754	GCNT3	9245
GCNT7	100429887	GCNT7	140687
GCOM1	700247	GCOM1	145781
GDA	701796	GDA	9615
GDAP1	697136	GDAP1	54332
GDAP1L1	693773	GDAP1L1	78997
GDE1	694849	GDE1	51573
GDF10	711441	GDF10	2662
GDF15	719466	GDF15	9518
GDF2	711516	GDF2	2658
GDF3	715605	GDF3	9573
GDF5	705432	GDF5	8200
GDF6	701126	GDF6	392255
GDF7	702462	GDF7	151449
GDI1	700139	GDI1	2664
GDI2	712510	GDI2	2665
GDNF	706345	GDNF	2668
GDPD2	695687	GDPD2	54857
GDPD3	708824	GDPD3	79153
GDPD5	695518	GDPD5	81544
GDPGP1	701954	GDPGP1	390637
GEM	699130	GEM	2669
GEMIN4	699841	GEMIN4	50628
GEMIN5	714864	GEMIN5	25929
GEMIN6	711246	GEMIN6	79833
GEMIN7	716036	GEMIN7	79760
GEMIN8	720922	GEMIN8	54960
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GFER	694203	GFER	2671
GFI1	706481	GFI1	2672
GFI1B	714593	GFI1B	8328
GFM1	706456	GFM1	85476
GFM2	704247	GFM2	84340

GFOD1	700607	GFOD1	54438
GFOD2	699723	GFOD2	81577
GFPT1	574376	GFPT1	2673
GFPT2	715826	GFPT2	9945
GFRA3	714050	GFRA3	2676
GFRAL	714935	GFRAL	389400
GGA1	697929	GGA1	26088
GGA2	700421	GGA2	23062
GGA3	705751	GGA3	23163
GGCT	695547	GGCT	79017
GGCX	695628	GGCX	2677
GGH	700747	GGH	8836
GGPS1	100425248	GGPS1	9453
GGT1	707545	GGT1	2678
GGT2	700936	GGT2	728441
GGT7	706813	GGT7	2686
GH1	718116	GH1	2688
GH2	718156	GH2	2689
GHITM	702691	GHITM	27069
GHR	697986	GHR	2690
GHRH	701284	GHRH	2691
GHRL	574280	GHRL	51738
GHSR	694587	GHSR	2693
GIF	698704	GIF	2694
GIGYF1	712775	GIGYF1	64599
GIGYF2	713675	GIGYF2	26058
GIMAP2	713463	GIMAP2	26157
GIMAP4	713506	GIMAP4	55303
GIMAP8	713236	GIMAP8	155038
GIN1	703340	GIN1	54826
GIN2	693426	GIN2	51659
GIN3	707142	GIN3	64785
GIN4	703350	GIN4	84296
GIP	698335	GIP	2695

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GIPC3	713364	GIPC3	126326
GIT2	708092	GIT2	9815
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GJA10	704282	GJA10	84694
GJA3	704432	GJA3	2700
GJA5	701163	GJA5	2702
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GJA9	715648	GJA9	81025
GJB1	706327	GJB1	2705
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GJB4	710994	GJB4	127534
GJB5	711078	GJB5	2709
GJB6	704105	GJB6	10804
GJC1	715463	GJC1	10052
GJC2	695161	GJC2	57165
GJD2	697250	GJD2	57369
GJD3	700473	GJD3	125111
GJD4	699010	GJD4	219770
GK2	696635	GK2	2712
GK3P	707531	GK	2710
GK5	714604	GK5	256356
GKAP1	708816	GKAP1	80318
GKN2	700323	GKN2	200504
GLA	703129	GLA	2717
GLB1L	702363	GLB1L	79411
GLCE	694999	GLCE	26035
GLDC	715563	GLDC	2731
GLE1	717474	GLE1	2733
GLG1	710037	GLG1	2734
GLI1	714843	GLI1	2735
GLI3	702494	GLI3	2737
GLIPR1	718956	GLIPR1	11010

GLIPR2	693734	GLIPR2	152007
GLIS3	694900	GLIS3	169792
GLMN	706249	GLMN	11146
GLO1	719518	GLO1	2739
GLOD4	700076	GLOD4	51031
GLP2R	717783	GLP2R	9340
GLRA1	713940	GLRA1	2741
GLRA2	711926	GLRA2	2742
GLRA3	697984	GLRA3	8001
GLRB	700368	GLRB	2743
GLRX	698997	GLRX	2745
GLRX2	712396	GLRX2	51022
GLRX3	698891	GLRX3	10539
GLRX5	702989	GLRX5	51218
GLS	693520	GLS	2744
GLS2	712962	GLS2	27165
GLT25D2	717508	GLT25D2	23127
GLT6D1	711729	GLT6D1	360203
GLT8D1	695999	GLT8D1	55830
GLT8D2	699937	GLT8D2	83468
GLTP	701777	GLTP	51228
GLTPD1	700679	GLTPD1	80772
GLTSCR1	718324	GLTSCR1	29998
GLTSCR2	717454	GLTSCR2	29997
GLUD1	693461	GLUD1	2746
GLUL	715952	GLUL	2752
GLYAT	701659	GLYAT	10249
GLYATL3	708571	GLYATL3	389396
GLYR1	706933	GLYR1	84656
GMCL1	701545	GMCL1	64395
GMDS	707051	GMDS	2762
GMIP	720380	GMIP	51291
GML	705046	GML	2765
GMNN	708416	GMNN	51053

GMPPA	703756	GMPPA	29926
GMPPB	705454	GMPPB	29925
GMPR2	715719	GMPR2	51292
GMPS	706932	GMPS	8833
GNA11	721649	GNA11	2767
GNA12	699857	GNA12	2768
GNA14	705448	GNA14	9630
GNAI2	703780	GNAI2	2771
GNAI3	699310	GNAI3	2773
GNAO1	574394	GNAO1	2775
GNAQ	705680	GNAQ	2776
GNAS	694289	GNAS	2778
GNAT1	703881	GNAT1	2779
GNAT2	699442	GNAT2	2780
GNAT3	708828	GNAT3	346562
GNAZ	706704	GNAZ	2781
GNB1	703399	GNB1	2782
GNB3	713913	GNB3	2784
GNB4	709489	GNB4	59345
GNE	693525	GNE	10020
GNG10	708193	GNG10	2790
GNG11	700606	GNG11	2791
GNG12	100424606	GNG12	55970
GNG13	722398	GNG13	51764
GNG2	710000	GNG2	54331
GNG5	710548	GNG5	2787
GNG7	711335	GNG7	2788
GNGT1	700724	GNGT1	2792
GNGT2	698840	GNGT2	2793
GNL1	713303	GNL1	2794
GNL2	713862	GNL2	29889
GNL3	695877	GNL3	26354
GNL3L	701373	GNL3L	54552
GNMT	697722	GNMT	27232

GNPAT	713603	GNPAT	8443
GNPDA1	703036	GNPDA1	10007
GNPDA2	710175	GNPDA2	132789
GNPNAT1	693834	GNPNAT1	64841
GNPTAB	697307	GNPTAB	79158
GNRH1	613033	GNRH1	2796
GNRH2	619516	GNRH2	2797
GNRHR	711577	GNRHR	2798
GNS	717500	GNS	2799
GOLGA2	717677	GOLGA2	2801
GOLGA3	694167	GOLGA3	2802
GOLGA4	697455	GOLGA4	2803
GOLGA5	698378	GOLGA5	9950
GOLGA7	709911	GOLGA7	51125
GOLGA7B	100423244	GOLGA7B	401647
GOLGB1	713993	GOLGB1	2804
GOLIM4	713937	GOLIM4	27333
GOLPH3L	707858	GOLPH3L	55204
GOLT1A	700305	GOLT1A	127845
GOPC	717841	GOPC	57120
GORAB	702571	GORAB	92344
GORASP2	694170	GORASP2	26003
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GOSR2	716841	GOSR2	9570
GOT2	707896	GOT2	2806
GP2	695766	GP2	2813
GP5	707776	GP5	2814
GP9	704202	GP9	2815
GPAA1	699887	GPAA1	8733
GPAM	696042	GPAM	57678
GPAT2	707076	GPAT2	150763
GPATCH1	716715	GPATCH1	55094
GPATCH3	715116	GPATCH3	63906
GPATCH4	718516	GPATCH4	54865

GPATCH8	715068	GPATCH8	23131
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GPX6	100286832	GPX6	257202
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GRAMD2	697870	GRAMD2	196996
GRAMD3	702639	GRAMD3	65983
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GRB10	694786	GRB10	2887
GRB7	697951	GRB7	2886
GREB1	697434	GREB1	9687
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GTF2F2	701668	GTF2F2	2963
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GUCA2B	699525	GUCA2B	2981
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H2AFY	711836	H2AFY	9555
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HAL	712963	HAL	3034
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HAND1	714450	HAND1	9421
HAND2	696881	HAND2	9464
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HAO2	712615	HAO2	51179

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HAS1	719773	HAS1	3036
HAS2	703353	HAS2	3037
HAS3	704121	HAS3	3038
HAUS1	695871	HAUS1	115106
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HAUS6	712557	HAUS6	54801
HAUS7	695353	HAUS7	55559
HAUS8	718874	HAUS8	93323
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HBG2	715368	HBG2	3048
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HBQ1	100429484	HBQ1	3049
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HBXIP	701645	HBXIP	10542
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HCFC1R1	700351	HCFC1R1	54985
HCFC2	700316	HCFC2	29915
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HCN3	717719	HCN3	57657
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HDAC5	711456	HDAC5	10014
HDAC6	711363	HDAC6	10013
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HDDC2	716491	HDDC2	51020
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HDGFRP3	718684	HDGFRP3	50810
HDHD1	707930	HDHD1	8226
HDHD2	697216	HDHD2	84064
HDHD3	705447	HDHD3	81932
HDLBP	700945	HDLBP	3069
HDX	710427	HDX	139324
HEATR1	717649	HEATR1	55127
HEATR2	708567	HEATR2	54919
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HEATR6	720089	HEATR6	63897
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HEBP1	697821	HEBP1	50865
HEBP2	709176	HEBP2	23593
HECA	702628	HECA	51696
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HEXB	704464	HEXB	3074
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HEXIM2	716047	HEXIM2	124790
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HK3	698120	HK3	3101
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HLA-DRB5	692100	HLA-DRB5	3127
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HLF	706623	HLF	3131
HLTF	712415	HLTF	6596
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HM13	713216	HM13	81502
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HMBS	702943	HMBS	3145
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HMGXB3	710180	HMGXB3	22993
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HMHA1	721173	HMHA1	23526
HMMR	697991	HMMR	3161
HMOX1	719266	HMOX1	3162
HMOX2	705461	HMOX2	3163
HMP19	693872	HMP19	51617

HMX1	699446	HMX1	3166
HMX2	707928	HMX2	3167
HN1	664729	HN1	51155
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HNF4G	697750	HNF4G	3174
HNMT	706713	HNMT	3176
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HNRPLL	710841	HNRPLL	92906
HNT	693345	NTM	50863
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HOMER2	693493	HOMER2	9455
HOMER3	719647	HOMER3	9454
HOMEZ	713087	HOMEZ	57594
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HOOK3	706093	HOOK3	84376
HOPX	694219	HOPX	84525

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HPCA	710249	HPCA	3208
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HPS6	712574	HPS6	79803
HPSE	707583	HPSE	10855
HPX	711007	HPX	3263
HR	574164	HR	55806

HRAS	698830	HRAS	3265
HRASLS	706638	HRASLS	57110
HRASLS5	718317	HRASLS5	117245
HRG	699100	HRG	3273
HRH1	696359	HRH1	3269
HRH2	695226	HRH2	3274
HRH3	574253	HRH3	11255
HRH4	702044	HRH4	59340
HRSP12	698724	HRSP12	10247
HS1BP3	702364	HS1BP3	64342
HS2ST1	712540	HS2ST1	9653
HS3ST1	713374	HS3ST1	9957
HS3ST2	699722	HS3ST2	9956
HS3ST3A1	718232	HS3ST3A1	9955
HS3ST3B1	718318	HS3ST3B1	9953
HS3ST4	703383	HS3ST4	9951
HS3ST5	693684	HS3ST5	222537
HS6ST2	706326	HS6ST2	90161
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HSF1	714078	HSF1	3297

HSF2	713938	HSF2	3298
HSF4	698412	HSF4	3299
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HSPE1	100425423	HSPE1	3336
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HTATIP2	701908	HTATIP2	10553
HTATSF1	693589	HTATSF1	27336
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HTR1D	709379	HTR1D	3352
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HUS1	699541	HUS1	3364
HUWE1	700136	HUWE1	10075
HYAL1	702850	HYAL1	3373
HYAL2	702484	HYAL2	8692
HYAL4	696128	HYAL4	23553
HYDIN	708629	HYDIN	54768
HYI	700926	HYI	81888
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IAH1	694558	IAH1	285148
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IARS	677705	IARS	3376
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IBTK	693559	IBTK	25998
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ICAM1	712280	ICAM1	3383
ICAM2	574158	ICAM2	3384
ICAM3	715298	ICAM3	3385
ICOS	705788	ICOS	29851
ICT1	700207	ICT1	3396

ID1	713160	ID1	3397
ID2	693394	ID2	3398
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IDE	698640	IDE	3416
IDH1	710019	IDH1	3417
IDH2	701480	IDH2	3418
IDH3A	677715	IDH3A	3419
IDH3B	716726	IDH3B	3420
IDNK	708613	IDNK	414328
IDO1	574370	IDO1	3620
IDO2	707424	IDO2	169355
IDS	700892	IDS	3423
IER2	717232	IER2	9592
IER3	701939	IER3	8870
IFFO1	712900	IFFO1	25900
IFI16	719253	IFI16	3428
IFI27	700513	IFI27	3429
IFI35	712409	IFI35	3430
IFI44L	711365	IFI44L	10964
IFI6	716339	IFI6	2537
IFIH1	702024	IFIH1	64135
IFIT1	695683	IFIT1	3434
IFIT1B	722130	IFIT1B	439996
IFIT2	695452	IFIT2	3433
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IFIT5	695796	IFIT5	24138
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IFNA2	709948	IFNA2	3440
IFNA8	709755	IFNA8	3445
IFNAR1	699604	IFNAR1	3454
IFNAR2	699726	IFNAR2	3455
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IFNG	574282	IFNG	3458
IFNGR1	100423877	IFNGR1	3459
IFNGR2	699489	IFNGR2	3460
IFNK	707234	IFNK	56832
IFNW1	711329	IFNW1	3467
IFRD1	702624	IFRD1	3475
IFRD2	702959	IFRD2	7866
IFT122	703060	IFT122	55764
IFT140	701568	IFT140	9742
IFT172	700948	IFT172	26160
IFT52	694933	IFT52	51098
IFT57	705088	IFT57	55081
IFT74	707561	IFT74	80173
IFT80	705146	IFT80	57560
IFT81	710434	IFT81	28981
IFT88	703874	IFT88	8100
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IGDCC3	709239	IGDCC3	9543
IGDCC4	713405	IGDCC4	57722
IGF1	698444	IGF1	3479
IGF1R	708227	IGF1R	3480
IGF2BP1	698462	IGF2BP1	10642
IGF2BP2	700598	IGF2BP2	10644
IGF2BP3	704774	IGF2BP3	10643
IGF2R	703220	IGF2R	3482
IGFBP1	696994	IGFBP1	3484
IGFBP2	696214	IGFBP2	3485
IGFBP3	696868	IGFBP3	3486

IGFBP4	700963	IGFBP4	3487
IGFBP5	696339	IGFBP5	3488
IGFBP7	693564	IGFBP7	3490
IGHMBP2	721554	IGHMBP2	3508
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IGKC	708861	LOC100130100	100130100
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IGSF6	699485	IGSF6	10261
IGSF9	719535	IGSF9	57549
IGSF9B	699412	IGSF9B	22997
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IKZF1	693936	IKZF1	10320
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IKZF3	698083	IKZF3	22806
IKZF4	711244	IKZF4	64375
IKZF5	716950	IKZF5	64376
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IL13	574325	IL13	3596

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IL16	574100	IL16	3603
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IL2	708017	IL2	3558
IL20	694689	IL20	50604
IL20RA	704890	IL20RA	53832
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IL7	574168	IL7	3574
IL7R	699869	IL7R	3575
IL8	613028	IL8	3576
IL8RB	700407	CXCR2	3579
IL9	712292	IL9	3578
IL9R	704266	IL9R	3581
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ILVBL	718086	ILVBL	10994
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IMMP2L	701823	IMMP2L	83943
IMP3	706202	IMP3	55272
IMP4	702144	IMP4	92856
IMPA1	701959	IMPA1	3612
IMPA2	704320	IMPA2	3613
IMPACT	707508	IMPACT	55364
IMPAD1	696893	IMPAD1	54928
IMPDH2	708307	IMPDH2	3615
IMPG1	716669	IMPG1	3617
IMPG2	701319	IMPG2	50939
INA	714455	INA	9118
INADL	694408	INADL	10207
INCENP	722320	INCENP	3619
INF2	706242	INF2	64423
ING1	694955	ING1	3621
ING2	701839	ING2	3622
ING5	701901	ING5	84289
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INHBA	702734	INHBA	3624
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INO80D	706610	INO80D	54891
INO80E	708115	INO80E	283899
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INSL4	693911	INSL4	3641
INSL5	699803	INSL5	10022
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INSM2	695563	INSM2	84684
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IPO8	693514	IPO8	10526
IPO9	707210	IPO9	55705
IPP	706893	IPP	3652
IPPK	705937	IPPK	64768
IQCA1	694173	IQCA1	79781
IQCB1	715032	IQCB1	9657
IQCE	714253	IQCE	23288
IQCF1	699719	IQCF1	132141

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IQCH	711513	IQCH	64799
IQCK	695417	IQCK	124152
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IQGAP3	719575	IQGAP3	128239
IQSEC1	693922	IQSEC1	9922
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IRAK2	698091	IRAK2	3656
IRAK3	717845	IRAK3	11213
IRAK4	700568	IRAK4	51135
IREB2	710239	IREB2	3658
IRF1	707788	IRF1	3659
IRF2	694347	IRF2	3660
IRF2BP1	715611	IRF2BP1	26145
IRF2BPL	704474	IRF2BPL	64207
IRF3	718970	IRF3	3661
IRF4	722883	IRF4	3662
IRF5	700725	IRF5	3663
IRF6	712958	IRF6	3664
IRF7	699578	IRF7	3665
IRF8	693933	IRF8	3394
IRG1	695991	IRG1	730249
IRGQ	710309	IRGQ	126298
IRS2	698536	IRS2	8660
IRS4	707870	IRS1	3667
IRS4	703846	IRS4	8471
IRX1	693825	IRX1	79192
IRX4	710675	IRX4	50805
IRX5	695599	IRX2	153572
IRX5	697968	IRX5	10265
IRX6	698232	IRX6	79190
ISCA2	700004	ISCA2	122961

ISCU	705669	ISCU	23479
ISG15	700141	ISG15	9636
ISG20	698376	ISG20	3669
ISG20L2	718621	ISG20L2	81875
ISL2	707916	ISL2	64843
ISLR	701479	ISLR	3671
ISLR2	701357	ISLR2	57611
ISM1	695245	ISM1	140862
ISOC1	705231	ISOC1	51015
ISOC2	700714	ISOC2	79763
ISPD	714980	ISPD	729920
ISX	717448	ISX	91464
ISY1	705746	ISY1-RAB43	100534599
ISYNA1	719487	ISYNA1	51477
ITFG1	716435	ITFG1	81533
ITFG2	708596	ITFG2	55846
ITFG3	694729	ITFG3	83986
ITGA1	703456	ITGA1	3672
ITGA10	100428484	ITGA10	8515
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ITGA4	704745	ITGA4	3676
ITGA5	574315	ITGA5	3678
ITGA6	697643	ITGA6	3655
ITGA8	698888	ITGA8	8516
ITGAV	707756	ITGAV	3685
ITGB1	574312	ITGB1	3688
ITGB1BP2	697385	ITGB1BP2	26548
ITGB3	717379	ITGB3	3690
ITGB3BP	699279	ITGB3BP	23421
ITGB4	703770	ITGB4	3691
ITGB5	715710	ITGB5	3693

ITGB6	700454	ITGB6	3694
ITGB7	699405	ITGB7	3695
ITGB8	707247	ITGB8	3696
ITGBL1	700965	ITGBL1	9358
ITIH1	696070	ITIH1	3697
ITIH2	713575	ITIH2	3698
ITIH3	695200	ITIH3	3699
ITIH4	695305	ITIH4	3700
ITK	715471	ITK	3702
ITLN1	719807	ITLN1	55600
ITM2A	708039	ITM2A	9452
ITM2B	709896	ITM2B	9445
ITM2C	711245	ITM2C	81618
ITPA	717257	ITPA	3704
ITPK1	698756	ITPK1	3705
ITPKA	710541	ITPKA	3706
ITPKB	698185	ITPKB	3707
ITPR1	703669	ITPR1	3708
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LOC700257	700257	RPS12	6206
LOC700270	700270	CTRC	11330
LOC700277	700277	OR1J1	347168
LOC700296	700296	PNN	5411
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LOC700879	700879	FAM203A	51236
LOC700888	700888	FAM120C	54954
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LOC701662	701662	UQCRHL	440567

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LOC701688	701688	TIAM2	26230
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LOC701728	701728	PPHLN1	51535
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LOC701755	701755	ASPG	374569
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LOC701791	701791	ANKRD42	338699
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LOC702145	702145	OR5B21	219968
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LOC702188	702188	FAM179B	23116
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LOC702221	702221	LOXHD1	125336
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LOC702309	702309	SDHC	6391
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LOC703194	703194	KRTAP2-4	85294
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LOC703244	703244	C8orf47	203111
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LOC703663	703663	KRTAP2-4	85294
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LOC703807	703807	C10orf131	100127889
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LOC703968	703968	TMA16	55319
LOC703972	703972	ASIC4	55515
LOC703984	703984	ORM1	5004
LOC703990	703990	CAMSAP3	57662
LOC704000	704000	KRTAP19-7	337974
LOC704003	704003	C7orf63	79846
LOC704020	704020	MCMDC2	157777
LOC704041	704041	LAPTM5	7805
LOC704048	704048	FANCF	2188
LOC704076	704076	ATP5J2	9551

LOC704080	704080	AEBP2	121536
LOC704095	704095	TNNT3	7140
LOC704103	704103	KRTAP4-5	85289
LOC704104	704104	H3F3C	440093
LOC704143	704143	C15orf39	56905
LOC704161	704161	MIER1	57708
LOC704163	704163	DCD	117159
LOC704166	704166	ANO5	203859
LOC704201	704201	HOXC12	3228
LOC704204	704204	ZNF385B	151126
LOC704215	704215	DYNC2H1	79659
LOC704216	704216	CCDC153	283152
LOC704219	704219	KIAA0664	23277
LOC704241	704241	HIST1H2BL	8340
LOC704248	704248	PRRC1	133619
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LOC704272	704272	ANKRD20A3	441425
LOC704272	704272	ANKRD20A4	728747
LOC704272	704272	ANKRD20A1	84210
LOC704283	704283	FAM114A1	92689
LOC704291	704291	LYPD2	137797
LOC704296	704296	LOC645262	645262
LOC704306	704306	LOC375190	375190
LOC704318	704318	KRTAP4-3	85290
LOC704341	704341	HIST1H4J	8363
LOC704341	704341	HIST1H4E	8367
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LOC704341	704341	HIST1H4B	8366
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LOC704341	704341	HIST1H4C	8364
LOC704341	704341	HIST1H4F	8361
LOC704341	704341	HIST2H4A	8370
LOC704341	704341	HIST1H4K	8362
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LOC704341	704341	HIST2H4B	554313
LOC704341	704341	HIST1H4D	8360
LOC704348	704348	LOC728819	728819
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LOC704394	704394	RPL18	6141
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LOC704440	704440	ATP5J2	9551
LOC704478	704478	ATAD2	29028
LOC704486	704486	CNGA2	1260
LOC704497	704497	MON1A	84315
LOC704510	704510	RPL29	6159
LOC704516	704516	HFM1	164045
LOC704523	704523	FAM83F	113828
LOC704526	704526	HOXC9	3225
LOC704553	704553	TMEM207	131920
LOC704563	704563	TMEM139	135932
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LOC704565	704565	HIST2H4B	554313
LOC704565	704565	HIST2H4A	8370
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LOC704565	704565	HIST1H4F	8361
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LOC704565	704565	HIST1H4C	8364
LOC704565	704565	HIST1H4J	8363
LOC704565	704565	HIST1H4A	8359
LOC704565	704565	HIST1H4L	8368
LOC704565	704565	HIST1H4I	8294
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LOC704565	704565	HIST1H4K	8362
LOC704565	704565	HIST1H4E	8367

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LOC704606	704606	EIF1	10209
LOC704611	704611	JPH3	57338
LOC704627	704627	C1orf101	257044
LOC704637	704637	FAHD2B	151313
LOC704641	704641	KRTAP4-4	84616
LOC704705	704705	SWI5	375757
LOC704713	704713	HOXA11	3207
LOC704758	704758	PEF1	553115
LOC704762	704762	BBX	56987
LOC704780	704780	HIST1H2BN	8341
LOC704829	704829	TRIM59	286827
LOC704832	704832	NACAD	23148
LOC704845	704845	HIST2H2BF	440689
LOC704858	704858	ITSN2	50618
LOC704870	704870	TPTE2	93492
LOC704880	704880	STX4	6810
LOC704881	704881	KRTAP26-1	388818
LOC704947	704947	C20orf173	140873
LOC704983	704983	FAM212A	389119
LOC704989	704989	KRTAP26-1	388818
LOC704994	704994	HIST1H2AM	8336
LOC704994	704994	HIST1H2AG	8969
LOC704994	704994	HIST1H2AK	8330
LOC704994	704994	HIST1H2AL	8332
LOC704994	704994	HIST1H2AI	8329
LOC704998	704998	NIPAL1	152519
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LOC705065	705065	RAPH1	65059
LOC705092	705092	GMNC	647309
LOC705134	705134	FAM117B	150864
LOC705141	705141	ZIC5	85416
LOC705148	705148	C16orf90	646174

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LOC705220	705220	HIST1H3C	8352
LOC705220	705220	HIST1H3B	8358
LOC705220	705220	HIST1H3I	8354
LOC705220	705220	HIST1H3A	8350
LOC705220	705220	HIST1H3D	8351
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LOC705220	705220	HIST1H3G	8355
LOC705220	705220	HIST1H3F	8968
LOC705220	705220	HIST1H3H	8357
LOC705220	705220	HIST1H3J	8356
LOC705226	705226	COX18	285521
LOC705255	705255	SPATA21	374955
LOC705288	705288	KHDRBS3	10656
LOC705293	705293	LOC347411	347411
LOC705323	705323	VPS13A	23230
LOC705325	705325	OR3A2	4995
LOC705328	705328	KRTAP9-7	100505724
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LOC705352	705352	HIST2H4B	554313
LOC705352	705352	HIST1H4J	8363
LOC705352	705352	HIST1H4L	8368
LOC705352	705352	HIST1H4D	8360
LOC705352	705352	HIST1H4H	8365
LOC705352	705352	HIST1H4E	8367
LOC705352	705352	HIST1H4I	8294
LOC705352	705352	HIST4H4	121504
LOC705352	705352	HIST1H4K	8362
LOC705352	705352	HIST2H4A	8370
LOC705352	705352	HIST1H4B	8366
LOC705352	705352	HIST1H4F	8361
LOC705352	705352	HIST1H4A	8359
LOC705360	705360	C4orf3	401152
LOC705419	705419	TCEAL2	140597

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LOC705456	705456	LEKR1	389170
LOC705506	705506	OR6C76	390326
LOC705507	705507	RFPL2	10739
LOC705534	705534	FAM160B1	57700
LOC705540	705540	ASB17	127247
LOC705544	705544	C1orf105	92346
LOC705546	705546	UQCC	55245
LOC705570	705570	FNDC3A	22862
LOC705572	705572	CEACAM7	1087
LOC705607	705607	C8orf33	65265
LOC705611	705611	SPIN2A	54466
LOC705611	705611	SPIN2B	474343
LOC705622	705622	CNBP	7555
LOC705624	705624	OBSL1	23363
LOC705656	705656	C1orf115	79762
LOC705659	705659	FAM43B	163933
LOC705675	705675	FAM110C	642273
LOC705678	705678	CARD18	59082
LOC705681	705681	OR1E1	8387
LOC705696	705696	EIF3CL	728689
LOC705696	705696	EIF3C	8663
LOC705704	705704	OR2B2	81697
LOC705720	705720	FAM174B	400451
LOC705754	705754	ZSCAN5D	646698
LOC705756	705756	FAM3D	131177
LOC705767	705767	ATRNL1	26033
LOC705771	705771	SET	6418
LOC705809	705809	RETNLB	84666
LOC705814	705814	FAM100A	124402
LOC705851	705851	KIAA1217	56243
LOC705865	705865	C1orf162	128346
LOC705872	705872	OR6C3	254786
LOC705897	705897	SIX6	4990

LOC705906	705906	PABPC1L2A	340529
LOC705906	705906	PABPC1L2B	645974
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LOC705941	705941	CDADC1	81602
LOC705942	705942	ANKRD12	23253
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LOC705979	705979	RPL5	6125
LOC705990	705990	C8orf59	401466
LOC705993	705993	OR2M5	127059
LOC705997	705997	GOLT1B	51026
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LOC706029	706029	NXF2B	728343
LOC706033	706033	C1orf146	388649
LOC706043	706043	H1FNT	341567
LOC706046	706046	SELPLG	6404
LOC706051	706051	MEMO1	51072
LOC706081	706081	MCI	345643
LOC706090	706090	SAMD15	161394
LOC706106	706106	C1orf129	80133
LOC706108	706108	RPLP1	6176
LOC706112	706112	LRRC43	254050
LOC706125	706125	KIAA0556	23247
LOC706135	706135	TMEM236	653567
LOC706154	706154	FASTKD1	79675
LOC706196	706196	LYRM7	90624
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LOC706213	706213	OR2T2	401992
LOC706213	706213	OR2T35	403244
LOC706221	706221	BPI	671
LOC706226	706226	FAM132B	151176
LOC706227	706227	OR8U1	219417
LOC706244	706244	FAM213A	84293

LOC706281	706281	RPS19	6223
LOC706290	706290	TECPR1	25851
LOC706317	706317	DOK2	9046
LOC706318	706318	SGK196	84197
LOC706331	706331	OR2T33	391195
LOC706336	706336	PHLDB1	23187
LOC706349	706349	SGK223	157285
LOC706361	706361	ARL8A	127829
LOC706366	706366	TOMM6	100188893
LOC706392	706392	SOGA2	23255
LOC706393	706393	C19orf24	55009
LOC706408	706408	HUS1B	135458
LOC706419	706419	SKIV2L2	23517
LOC706425	706425	ISM2	145501
LOC706434	706434	CAPN6	827
LOC706437	706437	KDM5B	10765
LOC706441	706441	KIAA1755	85449
LOC706443	706443	OR6C2	341416
LOC706444	706444	CCDC48	79825
LOC706448	706448	OR8J1	219477
LOC706465	706465	PLIN1	5346
LOC706468	706468	ZDHHC22	283576
LOC706473	706473	DYDC2	84332
LOC706500	706500	WASH1	100287171
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LOC706521	706521	12-Sep	124404
LOC706527	706527	KIAA0895	23366
LOC706563	706563	LOC100132731	100132731
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LOC706570	706570	PTRF	284119
LOC706574	706574	OLIG1	116448
LOC706590	706590	ALG13	79868
LOC706598	706598	KHDRBS1	10657
LOC706606	706606	RPL23A	6147

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LOC706631	706631	DPPA4	55211
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LOC706675	706675	OR8K3	219473
LOC706698	706698	COX7C	1350
LOC706710	706710	ICT1	3396
LOC706736	706736	MVP	9961
LOC706784	706784	TTC16	158248
LOC706804	706804	RPL37	6167
LOC706830	706830	KRT15	3866
LOC706833	706833	EBPL	84650
LOC706835	706835	POU2F2	5452
LOC706837	706837	NNAT	4826
LOC706847	706847	ACSL6	23305
LOC706849	706849	MGA	23269
LOC706857	706857	KIAA0196	9897
LOC706858	706858	ENKUR	219670
LOC706859	706859	USP54	159195
LOC706873	706873	TOB1	10140
LOC706886	706886	IFI27L1	122509
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LOC706905	706905	POTED	317754
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LOC706971	706971	CARD17	440068
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LOC706982	706982	RANBP9	10048
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LOC707105	707105	TARS2	80222

LOC707109	707109	OR2T4	127074
LOC707110	707110	USP48	84196
LOC707153	707153	MUC7	4589
LOC707174	707174	OR2T8	343172
LOC707198	707198	PPP4R4	57718
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LOC707227	707227	COX5B	1329
LOC707235	707235	ANKFN1	162282
LOC707236	707236	KRT16	3868
LOC707243	707243	PLCH1	23007
LOC707253	707253	DEFB113	245927
LOC707255	707255	SLC2A12	154091
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LOC707289	707289	ZNF71	58491
LOC707293	707293	MYL7	58498
LOC707333	707333	LOC100505584	100505584
LOC707341	707341	KCNRG	283518
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LOC707386	707386	CFP	5199
LOC707387	707387	ARHGEF9	23229
LOC707391	707391	CTH	1491
LOC707408	707408	MYH15	22989
LOC707416	707416	LIMCH1	22998
LOC707432	707432	GIPC2	54810
LOC707438	707438	SLC35C2	51006
LOC707444	707444	FAM124B	79843
LOC707450	707450	KRTAP5-1	387264
LOC707457	707457	C17orf85	55421
LOC707463	707463	CIC	23152
LOC707467	707467	ASPHD1	253982
LOC707476	707476	ATP5G1	516
LOC707501	707501	OR5AS1	219447
LOC707523	707523	DISP2	85455
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LOC707616	707616	FAM116A	201627
LOC707625	707625	SPTLC2	9517
LOC707640	707640	ITCH	83737
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LOC707654	707654	C11orf63	79864
LOC707675	707675	NQO2	4835
LOC707681	707681	COQ2	27235
LOC707684	707684	SPCS2	9789
LOC707687	707687	C5orf56	441108
LOC707700	707700	FAM123B	139285
LOC707703	707703	FAM177B	400823
LOC707717	707717	NME1-NME2	654364
LOC707720	707720	C19orf45	374877
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LOC707753	707753	CASC1	55259
LOC707760	707760	VWA3B	200403
LOC707785	707785	KIAA1109	84162
LOC707790	707790	OR2V2	285659
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LOC707798	707798	HMX3	340784
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LOC707815	707815	TMEM41B	440026
LOC707816	707816	TRIM77P	390231
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LOC707898	707898	DPY19L2	283417
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LOC707948	707948	SIAH3	283514
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LOC707961	707961	RPGRIP1	57096
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LOC707982	707982	RHBDD1	84236
LOC707984	707984	MOB1B	92597
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LOC708016	708016	C4orf40	401137
LOC708018	708018	SDHA	6389
LOC708028	708028	PIWIL2	55124
LOC708030	708030	8-Mar	220972
LOC708041	708041	TMEM240	339453
LOC708042	708042	OR1C1	26188
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LOC708064	708064	SPINK14	408187
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LOC708068	708068	CDCA4	55038
LOC708074	708074	RPL29	6159
LOC708080	708080	CTSS	1520
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LOC708096	708096	EEF1A2	1917
LOC708114	708114	LSG1	55341
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LOC708147	708147	RPS25	6230
LOC708150	708150	OR5D18	219438
LOC708164	708164	MANEA	79694
LOC708171	708171	YTHDF3	253943
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LOC708198	708198	RNF17	56163

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LOC708206	708206	MASP1	5648
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LOC708258	708258	MCCC1	56922
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LOC708267	708267	PRMT10	90826
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LOC708288	708288	FEZ2	9637
LOC708314	708314	HDAC9	9734
LOC708317	708317	OR6B1	135946
LOC708335	708335	CNNM1	26507
LOC708341	708341	SHISA4	149345
LOC708343	708343	OR6F1	343169
LOC708347	708347	RAB5B	5869
LOC708348	708348	XIRP2	129446
LOC708356	708356	ARIH2	10425
LOC708395	708395	FAM124A	220108
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LOC708441	708441	HDAC1	3065
LOC708447	708447	TMEM9B	56674
LOC708457	708457	DCAF4L1	285429
LOC708459	708459	TMEM192	201931
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LOC708492	708492	RPS27L	51065
LOC708526	708526	GNB2L1	10399
LOC708528	708528	PEAK1	79834
LOC708541	708541	ZNF630	57232
LOC708543	708543	RBMXL3	139804
LOC708564	708564	CCDC66	285331
LOC708566	708566	PIGX	54965

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LOC708585	708585	RNLS	55328
LOC708601	708601	GULP1	51454
LOC708606	708606	FADD	8772
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LOC708652	708652	PDLIM2	64236
LOC708654	708654	MICU1	10367
LOC708659	708659	FAM127C	441518
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LOC708668	708668	DFNB59	494513
LOC708679	708679	MT1F	4494
LOC708681	708681	FAM176C	59271
LOC708687	708687	MAS1L	116511
LOC708688	708688	C6orf141	135398
LOC708702	708702	SYAP1	94056
LOC708716	708716	ARF3	377
LOC708723	708723	ANO1	55107
LOC708724	708724	OR8H1	219469
LOC708730	708730	FAM123A	219287
LOC708733	708733	ZNF530	348327
LOC708740	708740	YPEL3	83719
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LOC708755	708755	SOWAHA	134548
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LOC708778	708778	LRCH1	23143
LOC708784	708784	QPRT	23475
LOC708798	708798	ATPAF1	64756
LOC708806	708806	ASUN	55726
LOC708809	708809	CCDC75	253635
LOC708827	708827	FKBP9	11328
LOC708864	708864	TRIM64C	646754
LOC708889	708889	C8orf73	642475
LOC708894	708894	ATPAF1-AS1	374973

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LOC708915	708915	MITD1	129531
LOC708919	708919	OR5T3	390154
LOC708927	708927	CUEDC1	404093
LOC708928	708928	ZNF385C	201181
LOC708929	708929	WDFY2	115825
LOC708933	708933	C3orf17	25871
LOC708959	708959	TECPR2	9895
LOC708961	708961	C8orf58	541565
LOC708964	708964	COX15	1355
LOC708969	708969	C1orf150	148823
LOC708973	708973	MMAB	326625
LOC708981	708981	PRKAR2A	5576
LOC708983	708983	MT2A	4502
LOC708988	708988	SLC22A2	6582
LOC708992	708992	NAPRT1	93100
LOC708998	708998	LPHN2	23266
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LOC709002	709002	LOC729059	729059
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LOC709192	709192	DDX59	83479
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LOC711175	711175	KIRREL2	84063
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LOC715145	715145	SFR1	119392
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LOC716840	716840	ALOXE3	59344
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LOC717043	717043	SAC3D1	29901
LOC717044	717044	OR51T1	401665
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LOC717126	717126	FAM198A	729085
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LOC717171	717171	ENDOG	2021
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LOC717948	717948	SPRR2D	6703
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LOC718365	718365	MR1	3140
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LOC718374	718374	CCT3	7203
LOC718383	718383	TPRX1	284355
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LOC720331	720331	HGSNAT	138050
LOC720365	720365	HLA-B	3106
LOC720388	720388	ZNF101	94039
LOC720399	720399	HSD17B7	51478
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LOC721062	721062	C11orf34	349633
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LOC721838	721838	C17orf74	201243

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LOC722120	722120	FERMT3	83706
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LOC722126	722126	NAA40	79829
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LOC722173	722173	PFKL	5211
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LOC722195	722195	LOC390937	390937
LOC722205	722205	C9orf96	169436
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LOXL2	710151	LOXL2	4017
LOXL3	709834	LOXL3	84695
LOXL4	708172	LOXL4	84171
LPA	709528	LPA	4018
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LPAR5	713283	LPAR5	57121
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LPHN3	712601	LPHN3	23284
LPIN2	695641	LPIN2	9663
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LPO	709848	LPO	4025

LPPR1	714164	LPPR1	54886
LPXN	702033	LPXN	9404
LRAT	698871	LRAT	9227
LRCH2	708436	LRCH2	57631
LRFN1	696357	LRFN1	57622
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LRP1B	721791	LRP1B	53353
LRP2	705786	LRP2	4036
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LRP8	714317	LRP8	7804
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LRTM2	707976	LRTM2	654429
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LTA4H	713038	LTA4H	4048
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LTBR	712550	LTBR	4055
LTC4S	705233	LTC4S	4056
LTK	710624	LTK	4058
LTV1	700231	LTV1	84946
LUC7L2	711104	LUC7L2	51631
LUC7L3	703662	LUC7L3	51747
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LURAP1	707534	LURAP1	541468
LXN	703996	LXN	56925
LY6D	695450	LY6D	8581
LY6E	696037	LY6E	4061
LY6G5C	574241	LY6G5C	80741
LY6G6C	716220	LY6G6C	80740
LY6H	706994	LY6H	4062
LY75	699939	LY75-CD302	100526664
LY86	711507	LY86	9450

LY96	696778	LY96	23643
LYAR	712499	LYAR	55646
LYG1	709203	LYG1	129530
LYG2	713778	LYG2	254773
LYN	698553	LYN	4067
LYNX1	574359	LYNX1	66004
LYPD4	706070	LYPD4	147719
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LYPLA1	693700	LYPLA1	10434
LYPLA2	719074	LYPLA2	11313
LYPLAL1	707313	LYPLAL1	127018
LYRM2	701575	LYRM2	57226
LYRM5	707867	LYRM5	144363
LYSMD2	694916	LYSMD2	256586
LYSMD4	697655	LYSMD3	116068
LYVE1	702941	LYVE1	10894
LYZ	718361	LYZ	4069
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LYZL6	716662	LYZL6	57151
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MACROD2	694547	MACROD2	140733
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MAD2L1	708574	MAD2L1	4085
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MAD2L2	714527	MAD2L2	10459
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MAFF	700312	MAFF	23764
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MAGED4B	697293	MAGED4	728239
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MAGEE1	705379	MAGEE1	57692
MAGEE2	704907	MAGEE2	139599
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MAGOH	714261	MAGOH	4116

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MAML3	697863	MAML3	55534
MAMLD1	703003	MAMLD1	10046
MAMU-B	700391	HLA-B	3106
MAMU-B18	100141394	HLA-B	3106
MAMU-DOA	717947	HLA-DOA	3111
MAMU-DPA	717992	HLA-DPA1	3113
MAMU-DPB	717969	HLA-DPB1	3115
MAMU-DQA1	720582	HLA-DQA2	3118
MAMU-DRA	100187587	HLA-DRA	3122
MAMU-E	711532	HLA-E	3133
MAMU-F	709076	HLA-F	3134
MAMU-I	720372	HLA-B	3106
MAN1A2	711548	MAN1A2	10905
MAN1B1	706918	MAN1B1	11253
MAN1C1	719686	MAN1C1	57134
MAN2A1	705480	MAN2A1	4124
MAN2B2	710870	MAN2B2	23324
MAN2C1	705599	MAN2C1	4123
MANBA	712531	MANBA	4126
MANBAL	701167	MANBAL	63905
MANSC1	696667	MANSC1	54682
MAOB	708468	MAOB	4129
MAP1A	710514	MAP1A	4130

MAP1B	574272	MAP1B	4131
MAP1LC3A	707439	MAP1LC3A	84557
MAP1LC3B	695419	MAP1LC3B	81631
MAP1LC3B2	707563	MAP1LC3C	440738
MAP1S	719196	MAP1S	55201
MAP2	710840	MAP2	4133
MAP2K1	710415	MAP2K1	5604
MAP2K2	721821	MAP2K2	5605
MAP2K3	705195	MAP2K3	5606
MAP2K4	718155	MAP2K4	6416
MAP2K5	711672	MAP2K5	5607
MAP2K6	693914	MAP2K6	5608
MAP3K1	710979	MAP3K1	4214
MAP3K10	700477	MAP3K10	4294
MAP3K11	716038	MAP3K11	4296
MAP3K12	703059	MAP3K12	7786
MAP3K14	716258	MAP3K14	9020
MAP3K2	100424131	MAP3K2	10746
MAP3K3	717866	MAP3K3	4215
MAP3K4	710360	MAP3K4	4216
MAP3K5	711382	MAP3K5	4217
MAP3K6	715911	MAP3K6	9064
MAP3K9	693835	MAP3K9	4293
MAP4K1	694259	MAP4K1	11184
MAP4K5	706204	MAP4K5	11183
MAP6	696223	MAP6	4135
MAP6D1	704767	MAP6D1	79929
MAP7	705355	MAP7	9053
MAP7D1	712899	MAP7D1	55700
MAP7D3	712823	MAP7D3	79649
MAPK1	698569	MAPK1	5594
MAPK10	699736	MAPK10	5602
MAPK11	715794	MAPK11	5600
MAPK12	715745	MAPK12	6300

MAPK1IP1L	696931	MAPK1IP1L	93487
MAPK3	708938	MAPK3	5595
MAPK4	700969	MAPK4	5596
MAPK6	694444	MAPK6	5597
MAPK7	702837	MAPK7	5598
MAPK8	711115	MAPK8	5599
MAPK8IP1	714950	MAPK8IP1	9479
MAPK8IP3	702388	MAPK8IP3	23162
MAPKAP1	702599	MAPKAP1	79109
MAPKAPK2	695044	MAPKAPK2	9261
MAPKAPK3	701320	MAPKAPK3	7867
MAPKAPK5	713521	MAPKAPK5	8550
MAPKBP1	711222	MAPKBP1	23005
MAPKSP1	709133	LAMTOR3	8649
MAPRE1	711404	MAPRE1	22919
MAPRE2	707996	MAPRE2	10982
MAPT	574327	MAPT	4137
1-Mar	703570	1-Mar	55016
3-Mar	703693	3-Mar	115123
4-Mar	696058	4-Mar	57574
5-Mar	698517	5-Mar	54708
7-Mar	703010	7-Mar	64844
9-Mar	712441	9-Mar	92979
MARCKS	694077	MARCKS	4082
MARCKSL1	100428619	MARCKSL1	65108
MARCO	694432	MARCO	8685
MARK2	718065	MARK2	2011
MARK3	695234	MARK3	4140
MARK4	715346	MARK4	57787
MARS	714744	MARS	4141
MARS2	698275	MARS2	92935
MARVELD1	708237	MARVELD1	83742
MARVELD2	700370	MARVELD2	153562
MAS1	703105	MAS1	4142

MAST1	717903	MAST1	22983
MAST2	706998	MAST2	23139
MAST3	720145	MAST3	23031
MAST4	701878	MAST4	375449
MASTL	708134	MASTL	84930
MAT1A	700519	MAT1A	4143
MAT2B	698119	MAT2B	27430
MATN1	704521	MATN1	4146
MATN2	705161	MATN2	4147
MATN3	716677	MATN3	4148
MATN4	717652	MATN4	8785
MATR3	714812	MATR3	9782
MAVS	717616	MAVS	57506
MAX	708228	MAX	4149
MB	693269	MB	4151
MB21D2	706284	MB21D2	151963
MBD1	709798	MBD1	4152
MBD2	693801	MBD2	8932
MBD3	708302	MBD3	53615
MBD3L1	708503	MBD3L1	85509
MBD4	720557	MBD4	8930
MBD5	721892	MBD5	55777
MBIP	696526	MBIP	51562
MBL2	702652	MBL2	4153
MBLAC1	711102	MBLAC1	255374
MBLAC2	695437	MBLAC2	153364
MBNL1	708735	MBNL1	4154
MBNL3	706102	MBNL3	55796
MBOAT1	706078	MBOAT1	154141
MBOAT2	693653	MBOAT2	129642
MBOAT4	100424325	MBOAT4	619373
MBTD1	704544	MBTD1	54799
MBTPS1	714706	MBTPS1	8720
MBTPS2	696540	MBTPS2	51360

MC2R	701312	MC2R	4158
MC4R	698596	MC4R	4160
MC5R	701447	MC5R	4161
MCART1	716206	SLC25A51	92014
MCART2	699177	SLC25A53	401612
MCART6	706278	SLC25A52	147407
MCAT	711556	MCAT	27349
MCC	694270	MCC	4163
MCCC2	701211	MCCC2	64087
MCCD1	715379	MCCD1	401250
MCEE	704094	MCEE	84693
MCF2	696572	MCF2	4168
MCF2L	713961	MCF2L	23263
MCF2L2	705577	MCF2L2	23101
MCHR1	574232	MCHR1	2847
MCHR2	574369	MCHR2	84539
MCL1	707539	MCL1	4170
MCM10	695568	MCM10	55388
MCM2	710888	MCM2	4171
MCM3	708320	MCM3	4172
MCM3AP	721810	MCM3AP	8888
MCM4	714686	MCM4	4173
MCM5	717548	MCM5	4174
MCM6	707651	MCM6	4175
MCM7	710766	MCM7	4176
MCM8	718247	MCM8	84515
MCM9	714711	MCM9	254394
MCMBP	704028	MCMBP	79892
MCOLN1	703775	MCOLN1	57192
MCOLN2	710909	MCOLN2	255231
MCOLN3	710987	MCOLN3	55283
MCRS1	710919	MCRS1	10445
MCTP1	697733	MCTP1	79772
MCTP2	706949	MCTP2	55784

MCTS1	696543	MCTS1	28985
MDC1	712318	MDC1	9656
MDFI	694074	MDFI	4188
MDGA1	719423	MDGA1	266727
MDGA2	703237	MDGA2	161357
MDH1	694703	MDH1	4190
MDH1B	708188	MDH1B	130752
MDK	714591	MDK	4192
MDM1	718062	MDM1	56890
MDM2	718284	MDM2	4193
MDM4	699563	MDM4	4194
ME2	711129	ME2	4200
ME3	704422	ME3	10873
MEA1	699300	MEA1	4201
MEAF6	713666	MEAF6	64769
MECOM	698603	MECOM	2122
MECP2	700174	MECP2	4204
MECR	717425	MECR	51102
MED10	694872	MED10	84246
MED11	709561	MED11	400569
MED12	696791	MED12	9968
MED12L	709571	MED12L	116931
MED13	712277	MED13	9969
MED13L	713867	MED13L	23389
MED14	699395	MED14	9282
MED15	695807	MED15	51586
MED16	721141	MED16	10025
MED17	696725	MED17	9440
MED18	716930	MED18	54797
MED19	704421	MED19	219541
MED20	695093	MED20	9477
MED21	710699	MED21	9412
MED22	714097	MED22	6837
MED23	714629	MED23	9439

MED24	699536	MED24	9862
MED25	719061	MED25	81857
MED27	715219	MED27	9442
MED29	698032	MED29	55588
MED30	701367	MED30	90390
MED31	712971	MED31	51003
MED4	704644	MED4	29079
MED6	693320	MED6	10001
MED9	698957	MED9	55090
MEF2A	708956	MEF2A	4205
MEF2B	720334	MEF2B	100271849
MEF2C	694992	MEF2C	4208
MEF2D	718449	MEF2D	4209
MEFV	701927	MEFV	4210
MEGF10	703899	MEGF10	84466
MEGF9	704605	MEGF9	1955
MEIG1	697626	MEIG1	644890
MEIS1	697685	MEIS1	4211
MEIS2	699748	MEIS2	4212
MELK	716875	MELK	9833
MEOX1	713362	MEOX1	4222
MEOX2	709862	MEOX2	4223
MEP1A	704781	MEP1A	4224
MEP1B	707036	MEP1B	4225
MEPCE	711829	MEPCE	56257
MEPE	701943	MEPE	56955
MERTK	698330	MERTK	10461
MESDC1	713059	MESDC1	59274
MESP1	700744	MESP1	55897
MESP2	701003	MESP2	145873
MEST	703327	MEST	4232
MET	704562	MET	4233
METAP1	710537	METAP1	23173
METAP2	712400	METAP2	10988

METTL1	715796	METTL1	4234
METTL11A	716763	NTMT1	28989
METTL11B	705503	METTL11B	149281
METTL12	718701	METTL12	751071
METTL13	704943	METTL13	51603
METTL14	704667	METTL14	57721
METTL15	698208	METTL15	196074
METTL17	705009	METTL17	64745
METTL18	701890	METTL18	92342
METTL20	694696	METTL20	254013
METTL21A	710435	METTL21A	151194
METTL21B	712519	METTL21B	25895
METTL21D	705487	METTL21D	79609
METTL22	708739	METTL22	79091
METTL2A	717533	METTL2A	339175
METTL3	706852	METTL3	56339
METTL4	696353	METTL4	64863
METTL5	707119	METTL5	29081
METTL6	694202	METTL6	131965
METTL7A	693894	METTL7A	25840
METTL7B	709549	METTL7B	196410
METTL9	698159	METTL9	51108
MEX3B	713441	MEX3B	84206
MFAP1	711111	MFAP1	4236
MFAP2	710885	MFAP2	4237
MFAP3	713265	MFAP3	4238
MFAP3L	694985	MFAP3L	9848
MFAP5	716459	MFAP5	8076
MFF	708489	MFF	56947
MFHAS1	699633	MFHAS1	9258
MFI2	707618	MFI2	4241
MFN1	709570	MFN1	55669
MFRP	704965	MFRP	83552
MFSD1	703674	MFSD1	64747

MFSD11	707770	MFSD11	79157
MFSD2B	718367	MFSD2B	388931
MFSD3	703246	MFSD3	113655
MFSD4	697813	MFSD4	148808
MFSD5	702021	MFSD5	84975
MFSD6	710476	MFSD6	54842
MFSD6L	717575	MFSD6L	162387
MGAM	695030	MGAM	8972
MGARP	697003	MGARP	84709
MGAT1	707375	MGAT1	4245
MGAT3	703643	MGAT3	4248
MGAT4A	708094	MGAT4A	11320
MGAT4B	705006	MGAT4B	11282
MGAT5B	708299	MGAT5B	146664
MGMT	698134	MGMT	4255
MGP	574116	MGP	4256
MGST1	701652	MGST1	4257
MGST2	697983	MGST2	4258
MGST3	695275	MGST3	4259
MIA	702844	MIA	8190
MIA3	704405	MIA3	375056
MIB1	699340	MIB1	57534
MIB2	708438	MIB2	142678
MICAL1	698737	MICAL1	64780
MICAL3	710292	MICAL3	57553
MICALCL	701303	MICALCL	84953
MICALL2	711780	MICALL2	79778
MICB	715141	MICB	4277
MID1	709683	MID1	4281
MID1IP1	698138	MID1IP1	58526
MIEN1	697837	MIEN1	84299
MIER2	701450	MIER2	54531
MIF	574298	MIF	4282
MIF4GD	706005	MIF4GD	57409

MINA	696986	MINA	84864
MINK1	721582	MINK1	50488
MINPP1	704362	MINPP1	9562
MIOS	696371	MIOS	54468
MIOX	720668	MIOX	55586
MIP	712901	MIP	4284
MIPEP	707131	MIPEP	4285
MIPOL1	697617	MIPOL1	145282
MIS12	712202	MIS12	79003
MITF	695537	MITF	4286
MIXL1	699179	MIXL1	83881
MKI67	697883	MKI67	4288
MKI67IP	697198	MKI67IP	84365
MKKS	718547	MKKS	8195
MKL2	712856	MKL2	57496
MKLN1	704338	MKLN1	4289
MKNK1	710061	MKNK1	8569
MKNK2	721436	MKNK2	2872
MKRN1	716752	MKRN1	23608
MKRN2	697649	MKRN2	23609
MKRN3	710776	MKRN3	7681
MLANA	715882	MLANA	2315
MLC1	715409	MLC1	23209
MLEC	697934	MLEC	9761
MLF1	704116	MLF1	4291
MLF2	713670	MLF2	8079
MLH3	701482	MLH3	27030
MLKL	710316	MLKL	197259
MLL	705511	MLL	4297
MLL2	710795	MLL2	8085
MLL3	716753	MLL3	58508
MLL4	718835	MLL4	9757
MLLT1	702105	MLLT1	4298
MLLT11	709190	MLLT11	10962

MLLT3	711732	MLLT3	4300
MLLT4	693560	MLLT4	4301
MLLT6	694045	MLLT6	4302
MLN	574099	MLN	4295
MLNR	705803	MLNR	2862
MLST8	695650	MLST8	64223
MLX	710570	MLX	6945
MLXIP	705874	MLXIP	22877
MLYCD	714605	MLYCD	23417
MMACHC	706247	MMACHC	25974
MMADHC	693783	MMADHC	27249
MMD	706723	MMD	23531
MME	707667	MME	4311
MMP1	703653	MMP1	4312
MMP10	701793	MMP10	4319
MMP11	699067	MMP11	4320
MMP12	703867	MMP12	4321
MMP13	703980	MMP13	4322
MMP14	712429	MMP14	4323
MMP15	706523	MMP15	4324
MMP16	695120	MMP16	4325
MMP19	710111	MMP19	4327
MMP2	698478	MMP2	4313
MMP20	703188	MMP20	9313
MMP21	695797	MMP21	118856
MMP23B	702921	MMP23B	8510
MMP24	712005	MMP24	10893
MMP25	700486	MMP25	64386
MMP26	574248	OR51L1	119682
MMP27	703307	MMP27	64066
MMP28	574250	MMP28	79148
MMP3	703762	MMP3	4314
MMP7	703072	MMP7	4316
MMP8	703536	MMP8	4317

MMP9	708084	MMP9	4318
MMRN1	704009	MMRN1	22915
MMS19	706888	MMS19	64210
MMS22L	705353	MMS22L	253714
MN1	713280	MN1	4330
MNAT1	703905	MNAT1	4331
MND1	698916	MND1	84057
MNS1	699377	MNS1	55329
MOAP1	707922	MOAP1	64112
MOB3B	706919	MOB3B	79817
MOB3C	708703	MOB3C	148932
MOBKL1B	712156	MOB1A	55233
MOBKL3	698149	MOB4	25843
MOBP	717265	MOBP	4336
MOCOS	715633	MOCOS	55034
MOCS2	703689	MOCS2	4338
MOCS3	701166	MOCS3	27304
MOG	711347	MOG	4340
MOGAT1	705924	MOGAT1	116255
MOGAT2	696347	MOGAT2	80168
MOGS	708913	MOGS	7841
MORC1	100429356	MORC1	27136
MORC2	718224	MORC2	22880
MORC3	695314	MORC3	23515
MORC4	701136	MORC4	79710
MORF4L2	697637	MORF4L2	9643
MORN1	694285	MORN1	79906
MORN4	706860	MORN4	118812
MOS	698921	MOS	4342
MOSC1	705425	1-Mar	64757
MOSC2	705543	2-Mar	54996
MOSPD1	708242	MOSPD1	56180
MOSPD2	712225	MOSPD2	158747
MOV10	705910	MOV10	4343

MOXD1	709771	MOXD1	26002
MPDU1	715962	MPDU1	9526
MPDZ	715817	MPDZ	8777
MPG	722257	MPG	4350
MPHOSPH10	704207	MPHOSPH10	10199
MPHOSPH6	714335	MPHOSPH6	10200
MPHOSPH8	721276	MPHOSPH8	54737
MPHOSPH9	704085	MPHOSPH9	10198
MPL	723813	MPL	4352
MPLKIP	703092	MPLKIP	136647
MPO	714246	MPO	4353
MPP1	702092	MPP1	4354
MPP3	709990	MPP3	4356
MPP4	702459	MPP4	58538
MPP5	710049	MPP5	64398
MPP6	703560	MPP6	51678
MPP7	709246	MPP7	143098
MPPE1	704226	MPPE1	65258
MPPED2	696968	MPPED2	744
MPST	695842	MPST	4357
MPV17	701026	MPV17	4358
MPV17L2	719413	MPV17L2	84769
MPZL1	698437	MPZL1	9019
MPZL2	699330	MPZL2	10205
MPZL3	699211	MPZL3	196264
MRAP	701330	MRAP	56246
MRAP2	695659	MRAP2	112609
MRAS	716352	MRAS	22808
MRC1L1	701010	MRC1	4360
MRC2	717576	MRC2	9902
MRE11A	697566	MRE11A	4361
MREG	695056	MREG	55686
MRFAP1	710771	MRFAP1	93621
MRFAP1L1	710411	MRFAP1L1	114932

MRGP	706822	MRGP	116534
MRGPRF	721546	MRGPRF	116535
MRGPRX1	692101	MRGPRX1	259249
MRGPRX2	692078	MRGPRX2	117194
MRGPRX3	692077	MRGPRX3	117195
MRGPRX4	692123	MRGPRX4	117196
MRI1	718413	MRI1	84245
MRP63	702952	MRP63	78988
MRPL10	695136	MRPL10	124995
MRPL11	714094	MRPL11	65003
MRPL12	714438	MRPL12	6182
MRPL13	702994	MRPL13	28998
MRPL15	694274	MRPL15	29088
MRPL16	698831	MRPL16	54948
MRPL17	697086	MRPL17	63875
MRPL18	702629	MRPL18	29074
MRPL19	711081	MRPL19	9801
MRPL2	698483	MRPL2	51069
MRPL20	701533	MRPL20	55052
MRPL22	714920	MRPL22	29093
MRPL23	704210	MRPL23	6150
MRPL24	718640	MRPL24	79590
MRPL27	696979	MRPL27	51264
MRPL28	695310	MRPL28	10573
MRPL32	701820	MRPL32	64983
MRPL33	702783	MRPL33	9553
MRPL34	719004	MRPL34	64981
MRPL36	100430880	MRPL36	64979
MRPL37	715168	MRPL37	51253
MRPL38	704973	MRPL38	64978
MRPL39	708631	MRPL39	54148
MRPL40	711629	MRPL40	64976
MRPL41	702768	MRPL41	64975
MRPL44	677716	MRPL44	65080

MRPL46	697872	MRPL46	26589
MRPL47	709030	MRPL47	57129
MRPL49	716796	MRPL49	740
MRPL50	713923	MRPL50	54534
MRPL51	713036	MRPL51	51258
MRPL52	712367	MRPL52	122704
MRPL53	709302	MRPL53	116540
MRPL55	695962	MRPL55	128308
MRPL9	711235	MRPL9	65005
MRPS10	695892	MRPS10	55173
MRPS11	697743	MRPS11	64963
MRPS12	695196	MRPS12	6183
MRPS14	708475	MRPS14	63931
MRPS15	713412	MRPS15	64960
MRPS16	707384	MRPS16	51021
MRPS17	703678	MRPS17	51373
MRPS18A	701465	MRPS18A	55168
MRPS18B	713694	MRPS18B	28973
MRPS18C	707257	MRPS18C	51023
MRPS2	712048	MRPS2	51116
MRPS21	706805	MRPS21	54460
MRPS21	700884	MRPS21	54460
MRPS22	715845	MRPS22	56945
MRPS23	708818	MRPS23	51649
MRPS24	700722	MRPS24	64951
MRPS25	703261	MRPS25	64432
MRPS26	717038	MRPS26	64949
MRPS27	701585	MRPS27	23107
MRPS28	699755	MRPS28	28957
MRPS30	701699	MRPS30	10884
MRPS31	700149	MRPS31	10240
MRPS33	693681	MRPS33	51650
MRPS34	702487	MRPS34	65993
MRPS35	710109	MRPS35	60488

MRPS36	704287	MRPS36	92259
MRPS5	705267	MRPS5	64969
MRPS7	701800	MRPS7	51081
MRPS9	712968	MRPS9	64965
MRRF	700902	MRRF	92399
MRS2	707676	MRS2	57380
MRT04	702926	MRT04	51154
MRVI1	702830	MRVI1	10335
MS4A1	696843	MS4A1	931
MS4A10	696104	MS4A10	341116
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PNMA2	708231	MOAP1	64112
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PNMA5	693718	PNMA5	114824
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PNPLA4	708139	PNPLA4	8228
PNPLA5	712261	PNPLA5	150379
PNPLA8	700851	PNPLA8	50640
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POGLUT1	712357	POGLUT1	56983
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POLA1	699763	POLA1	5422
POLA2	716541	POLA2	23649
POLB	704801	POLB	5423
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POLD2	700100	POLD2	5425
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POLG	699750	POLG	5428
POLH	700772	POLH	5429
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POLL	711924	POLL	27343
POLM	707619	POLM	27434
POLQ	713828	POLQ	10721
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POLR1B	699204	POLR1B	84172
POLR1D	718341	POLR1D	51082
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POLR2C	704555	POLR2C	5432
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POLR3F	697927	POLR3F	10621
POLR3GL	698563	POLR3GL	84265
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PPP2R5D	699163	PPP2R5D	5528
PPP2R5E	708583	PPP2R5E	5529
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PRELID2	706848	PRELID2	153768
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PRG3	706381	PRG3	10394
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PRKAA2	717703	PRKAA2	5563
PRKAB1	695737	PRKAB1	5564
PRKAB2	699806	PRKAB2	5565
PRKACB	709728	PRKACB	5567
PRKAG1	709298	PRKAG1	5571
PRKAG3	702782	PRKAG3	53632
PRKAR2B	700770	PRKAR2B	5577
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PRKCB	701195	PRKCB	5579
PRKCE	714533	PRKCE	5581

PRKCH	704356	PRKCH	5583
PRKCI	574352	PRKCI	5584
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PRKD3	709647	PRKD3	23683
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PRKRIR	698394	PRKRIR	5612
PRKX	100270699	PRKX	5613
PRL	707052	PRL	5617
PRLH	694941	PRLH	51052
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PROM1	714610	PROM1	8842
PROM2	704208	PROM2	150696
PROP1	707843	PROP1	5626

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PROX2	700297	PROX2	283571
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PRSS23	704537	PRSS23	11098
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PRSS3	698612	PRSS3	5646
PRSS35	695095	PRSS35	167681
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PRSS55	698379	PRSS55	203074
PRSS58	696251	PRSS58	136541
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PRTG	698623	PRTG	283659
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PSD4	701785	PSD4	23550
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PSMA5	698435	PSMA5	5686
PSMA6	699631	PSMA6	5687
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PSMG4	708514	PSMG4	389362
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PTX3	704985	PTX3	5806
PUF60	699008	PUF60	22827
PUM1	704848	PUM1	9698
PUM2	701782	PUM2	23369
PURA	695224	PURA	5813
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PVRL4	719843	PVRL4	81607
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PYGB	705777	PYGB	5834
PYGL	706853	PYGL	5836
PYGM	717451	PYGM	5837
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RAD17	700116	RAD17	5884
RAD21	700633	RAD21	5885
RAD21L1	717271	RAD21L1	642636
RAD23B	711328	RAD23B	5887
RAD50	710718	RAD50	10111
RAD51AP1	710918	RAD51AP1	10635

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RAD51C	714828	RAD51C	5889
RAD51L1	711358	RAD51B	5890
RAD52	100426645	RAD52	5893
RAD54B	699516	RAD54B	25788
RAD54L2	700482	RAD54L2	23132
RAD9A	712345	RAD9A	5883
RAD9B	711050	RAD9B	144715
RADIL	700979	RADIL	55698
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RAET1E	695031	RAET1E	135250
RAF1	694725	RAF1	5894
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RAI14	706961	ANKRD35	148741
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RAI2	693329	RAI2	10742
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RB1	708452	FAM208A	23272
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RBBP4	708710	RBBP4	5928
RBBP6	701569	RBBP6	5930
RBBP7	713843	RBBP7	5931
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RBBP9	698192	RBBP9	10741
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REG1B	711725	REG1B	5968
REG4	695966	REG4	83998
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RELB	714677	RELB	5971
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RFX5	710369	RFX5	5993
RFX6	715469	RFX6	222546
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ROCK2	708444	ROCK2	9475
ROGDI	706735	ROGDI	79641
ROM1	100426294	ROM1	6094
ROMO1	711369	ROMO1	140823
ROPN1B	716215	ROPN1B	152015
ROPN1L	697006	ROPN1L	83853
ROR2	715482	ROR2	4920
RORA	704014	RORA	6095
RORB	703310	RORB	6096
RORC	717052	RORC	6097
ROS1	715284	ROS1	6098
RP1	677695	RP1	6101
RP1L1	702238	RP1L1	94137
RP2	711227	RP2	6102
RP9	708632	RP9	6100
RPA1	721272	RPA1	6117
RPA2	716612	RPA2	6118
RPA3	696248	RPA3	6119
RPA4	699274	RPA4	29935
RPAIN	711897	RPAIN	84268
RPAP1	706543	RPAP1	26015
RPAP2	706358	RPAP2	79871
RPAP3	703749	RPAP3	79657

RPE	711322	RPE	6120
RPE65	701764	RPE65	6121
RPF1	710286	RPF1	80135
RPF2	696378	RPF2	84154
RPGRIP1L	697345	RPGRIP1L	23322
RPH3A	712197	RPH3A	22895
RPIA	699694	RPIA	22934
RPL10	707414	RPL10	6134
RPL10A	718783	RPL10A	4736
RPL10L	702986	RPL10L	140801
RPL12	707504	RPL12	6136
RPL13A	574314	RPL13A	23521
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RPL17	702723	RPL17	6139
RPL19	695987	RPL19	6143
RPL22	703050	RPL22	6146
RPL23	694719	RPL23	9349
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RPL24	702381	RPL24	6152
RPL26	696134	RPL26	6154
RPL26L1	703230	RPL26L1	51121
RPL27	712352	RPL27	6155
RPL27A	709769	RPL27A	6157
RPL28	700345	RPL28	6158
RPL29	698602	RPL29	6159
RPL3	707176	RPL3	6122
RPL31	710744	RPL31	6160
RPL32	694196	RPL32	6161
RPL35	693604	RPL35	11224
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RPL6	712133	RPL6	6128
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RPN2	708971	RPN2	6185
RPP14	706788	RPP14	11102
RPP21	713056	RPP21	79897
RPP25	703796	RPP25	54913
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RPP40	710505	RPP40	10799
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RPS11	718844	RPS11	6205
RPS13	697513	RPS13	6207
RPS14	710901	RPS14	6208
RPS15	707241	RPS15	6209
RPS16	697219	RPS16	6217
RPS17L	100425105	RPS17L	100505503
RPS17L	100425105	RPS17	6218
RPS18	713939	RPS18	6222
RPS19BP1	704079	RPS19BP1	91582
RPS21	699565	RPS21	6227
RPS23	711914	RPS23	6228
RPS26	711319	RPS26	6231
RPS27A	718909	RPS27A	6233
RPS28	707133	RPS28	6234
RPS29	704016	RPS29	6235
RPS3	695748	RPS3	6188

RPS4Y1	699397	RPS4Y1	6192
RPS4Y2	100270701	RPS4Y2	140032
RPS5	711259	RPS5	6193
RPS6	712274	RPS6	6194
RPS6KA4	717574	RPS6KA4	8986
RPS6KA5	699798	RPS6KA5	9252
RPS6KA6	710337	RPS6KA6	27330
RPS6KB1	711979	RPS6KB1	6198
RPS6KB2	721731	RPS6KB2	6199
RPS6KL1	701119	RPS6KL1	83694
RPS7	721900	RPS7	6201
RPS9	694053	RPS9	6203
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RPTOR	712848	RPTOR	57521
RPUSD2	708166	RPUSD2	27079
RPUSD3	700349	RPUSD3	285367
RPUSD4	714162	RPUSD4	84881
RRAD	695086	RRAD	6236
RRAGA	100430225	RRAGA	10670
RRAGB	704260	RRAGB	10325
RRAGC	715549	RRAGC	64121
RRAS	718939	RRAS	6237
RRAS2	699700	RRAS2	22800
RREB1	693556	RREB1	6239
RRM1	717990	RRM1	6240
RRM2	703138	RRM2	6241
RRN3	713500	RRN3	54700
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RRP1	713435	RRP1	8568
RRP12	705854	RRP12	23223
RRP1B	713759	RRP1B	23076
RRP7A	710471	RRP7A	27341
RRP8	712011	RRP8	23378
RS1	100423325	RS1	6247

RSAD1	705626	RSAD1	55316
RSAD2	708720	RSAD2	91543
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RSBN1L	693814	RSBN1L	222194
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RSF1	699078	RSF1	51773
RSG1	697922	RSG1	79363
RSL1D1	712064	RSL1D1	26156
RSL24D1	697612	RSL24D1	51187
RSPH1	714394	RSPH1	89765
RSPH3	704059	RSPH3	83861
RSPH4A	715669	RSPH4A	345895
RSP02	697376	RSP02	340419
RSPRY1	703783	RSPRY1	89970
RSRC1	704232	RSRC1	51319
RTCD1	711623	RTCA	8634
RTDR1	706814	RTDR1	27156
RTF1	706200	RTF1	23168
RTKN	708722	RTKN	6242
RTL1	718079	RTL1	388015
RTN1	619184	RTN1	6252
RTN4	619181	RTN4	57142
RTN4R	694382	RTN4R	65078
RTP1	708309	RTP1	132112
RTP2	708823	RTP2	344892
RTP3	713050	RTP3	83597
RTP4	708404	RTP4	64108
RTTN	703989	RTTN	25914
RUNDC1	712278	RUNDC1	146923
RUNDC3B	705821	RUNDC3B	154661
RUNX1	696749	RUNX1	861
RUNX1T1	696934	RUNX1T1	862
RUNX2	703331	RUNX2	860
RUSC2	697568	RUSC2	9853

RUVBL1	706044	RUVBL1	8607
RUVBL2	100428794	RUVBL2	10856
RWDD1	715760	RWDD1	51389
RWDD2A	694598	RWDD2A	112611
RWDD2B	706524	RWDD2B	10069
RWDD3	709817	RWDD3	25950
RWDD4A	708882	RWDD4	201965
RXFP1	701107	RXFP1	59350
RXFP2	721969	RXFP2	122042
RXFP3	698115	RXFP3	51289
RXFP4	718025	RXFP4	339403
RXRA	722068	RXRA	6256
RXRG	694807	RXRG	6258
RYR2	717179	RYR2	6262
RYR3	694996	RYR3	6263
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S100A10	574374	S100A10	6281
S100A11	717080	S100A11	6282
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S100G	713702	S100G	795
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SAE1	717918	SAE1	10055
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SAFB2	696236	SAFB2	9667
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SAMD12	704722	SAMD12	401474
SAMD3	710869	SAMD3	154075
SAMD4A	695336	SAMD4A	23034
SAMD7	697223	SAMD7	344658
SAMD9	702224	SAMD9	54809
SAMHD1	709060	SAMHD1	25939
SAMM50	715675	SAMM50	25813
SAMSN1	694064	SAMSN1	64092
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SAP30BP	703077	SAP30BP	29115
SAP30L	714400	SAP30L	79685
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SAR1B	711269	SAR1B	51128
SARDH	713289	SARDH	1757
SARM1	715863	SARM1	23098
SARS2	695081	SARS2	54938
SART3	705552	SART3	9733
SASH1	574384	SASH1	23328
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SAT2	716044	SAT2	112483
SATB1	696862	SATB1	6304
SATB2	699151	SATB2	23314
SAV1	706424	SAV1	60485
SBF2	706782	SBF2	81846
SBK1	707411	SBK1	388228
SBK2	701869	SBK2	646643
SBNO1	709260	SBNO1	55206
SBNO2	721186	SBNO2	22904
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SC5DL	706827	SC5DL	6309
SCAF11	701894	SCAF11	9169
SCAF4	701931	SCAF4	57466
SCAMP2	709720	SCAMP2	10066
SCAMP5	710454	SCAMP5	192683
SCAND3	708122	SCAND3	114821
SCAP	711528	SCAP	22937
SCAPER	708022	SCAPER	49855
SCARB1	712726	SCARB1	949
SCARB2	699990	SCARB2	950
SCARF1	721235	SCARF1	8578
SCARF2	695466	SCARF2	91179
SCD	710155	SCD	6319
SCD5	694079	SCD5	79966
SCEL	696980	SCEL	8796
SCFD1	716756	SCFD1	23256
SCFD2	698111	SCFD2	152579
SCG2	706499	SCG2	7857
SCG3	694089	SCG3	29106
SCG5	693837	SCG5	6447
SCGB1C1	696344	SCGB1C1	147199
SCGB1D1	718936	SCGB1D1	10648
SCGB3A2	709138	SCGB3A2	117156
SCGN	694072	SCGN	10590

SCHIP1	703321	SCHIP1	29970
SCIN	693551	SCIN	85477
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SCLY	695511	SCLY	51540
SCML1	714239	SCML1	6322
SCML2	694404	SCML2	10389
SCML4	698735	SCML4	256380
SCN10A	694962	SCN10A	6336
SCN11A	695258	SCN11A	11280
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SCN1B	707134	SCN1B	6324
SCN2A	703298	SCN2A	6326
SCN2B	678698	SCN2B	6327
SCN3A	703178	SCN3A	6328
SCN3B	714673	SCN3B	55800
SCN4A	718194	SCN4A	6329
SCN7A	704414	SCN7A	6332
SCN8A	695972	SCN8A	6334
SCN9A	574119	SCN9A	6335
SCNM1	709922	SCNM1	79005
SCNN1A	712476	SCNN1A	6337
SCNN1B	700093	SCNN1B	6338
SCNN1G	699971	SCNN1G	6340
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SCRN2	694571	SCRN2	90507
SCRN3	698199	SCRN3	79634
SCRT2	716940	SCRT2	85508
SCTR	695182	SCTR	6344
SCYL1	716345	SCYL1	57410
SCYL2	695284	SCYL2	55681
SCYL3	701768	SCYL3	57147
SDAD1	700863	SDAD1	55153
SDC1	701544	SDC1	6382

SDC2	703841	SDC2	6383
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SDC4	710914	SDC4	6385
SDCBP	698381	SDCBP	6386
SDCBP2	715602	SDCBP2	27111
SDCCAG3	721750	SDCCAG3	10807
SDCCAG8	705545	SDCCAG8	10806
SDF2L1	697928	SDF2L1	23753
SDF4	699804	SDF4	51150
SDHAF1	711822	SDHAF1	644096
SDHAF2	693401	SDHAF2	54949
SDHB	699810	SDHB	6390
SDHC	719978	SDHC	6391
SDHD	700693	SDHD	6392
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SDK1	715160	SDK1	221935
SDK2	699027	SDK2	54549
SDPR	694299	SDPR	8436
SDR16C5	696397	SDR16C5	195814
SDR39U1	716309	SDR39U1	56948
SDR42E1	714229	SDR42E1	93517
SDS	713285	SDS	10993
SEC11A	695951	SEC11A	23478
SEC13	697339	SEC13	6396
SEC14L1	708394	SEC14L1	6397
SEC14L3	715876	SEC14L3	266629
SEC14L4	715914	SEC14L4	284904
SEC14L5	710352	SEC14L5	9717
SEC16A	721736	SEC16A	9919
SEC16B	709635	SEC16B	89866
SEC22A	715277	SEC22A	26984
SEC22B	713856	SEC22B	9554
SEC22C	716351	SEC22C	9117
SEC23A	698500	SEC23A	10484

SEC23IP	704155	SEC23IP	11196
SEC24A	711109	SEC24A	10802
SEC24B	697241	SEC24B	10427
SEC24D	707521	SEC24D	9871
SEC31A	693687	SEC31A	22872
SEC31B	710333	SEC31B	25956
SEC61A1	709787	SEC61A1	29927
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SEC61B	717815	SEC61B	10952
SEC61G	716898	SEC61G	23480
SEC62	696989	SEC62	7095
SEC63	698863	SEC63	11231
SECISBP2	697442	SECISBP2	79048
SECISBP2L	714764	SECISBP2L	9728
SEH1L	702157	SEH1L	81929
SEL1L	708651	SEL1L	6400
SEL1L2	694419	SEL1L2	80343
SELE	701538	SELE	6401
SELENBP1	716741	SELENBP1	8991
SELK	693421	SELK	58515
SELL	701419	SELL	6402
SELM	718290	SELM	140606
SELO	715604	SELO	83642
SELP	701277	SELP	6403
SELT	710572	SELT	51714
SELV	722021	SELV	348303
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SEMG2	711317	SEMG2	6407
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15-Sep	712469	15-Sep	9403
SEPHS1	696038	SEPHS1	22929
SEPHS2	710575	SEPHS2	22928
SEPN1	719707	SEPN1	57190
SEPP1	698917	SEPP1	6414
10-Sep	695515	10-Sep	151011
14-Sep	715536	14-Sep	346288
2-Sep	717682	2-Sep	4735
4-Sep	714724	4-Sep	5414
5-Sep	712041	5-Sep	5413
6-Sep	694021	6-Sep	23157
7-Sep	677666	7-Sep	989
8-Sep	708424	8-Sep	23176
SEPW1	718370	SEPW1	6415
SEPX1	693358	MSRB1	51734
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SERTAD4	712616	SERTAD4	56256
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SESN2	716904	SESN2	83667
SESN3	699329	SESN3	143686
SESTD1	703755	SESTD1	91404
SETBP1	699652	SETBP1	26040
SETD2	711825	SETD2	29072
SETD3	705369	SETD3	84193
SETD4	696003	SETD4	54093
SETD5	704174	SETD5	55209
SETD6	707353	SETD6	79918
SETD7	700426	SETD7	80854
SETD8	709345	SETD8	387893
SETDB1	716141	SETDB1	9869
SETDB2	706277	SETDB2	83852
SETMAR	703880	SETMAR	6419
SETX	715065	SETX	23064
SEZ6	710932	SEZ6	124925
SEZ6L2	707244	SEZ6L2	26470
SF3A1	715552	SF3A1	10291
SF3B1	697773	SF3B1	23451
SF3B14	704090	SF3B14	51639
SF3B2	714747	SF3B2	10992
SF3B3	708939	SF3B3	23450
SF3B4	705655	SF3B4	10262
SF3B5	699863	SF3B5	83443
SFMBT1	694961	SFMBT1	51460

SFMBT2	722587	SFMBT2	57713
SFN	715055	SFN	2810
SFRP1	702876	SFRP1	6422
SFRP4	574393	SFRP4	6424
SFSWAP	709551	SFSWAP	6433
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SFTPC	707696	SFTPC	6440
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SGCA	704493	SGCA	6442
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SGCE	700104	SGCE	8910
SGIP1	699558	SGIP1	84251
SGK1	713082	SGK1	6446
SGK2	695356	SGK2	10110
SGK3	703700	SGK3	23678
SGK3	703700	C8orf44-SGK3	100533105
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SH2D2A	718686	SH2D2A	9047
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SH2D4A	704682	SH2D4A	63898
SH2D4B	699761	SH2D4B	387694
SH2D5	717509	SH2D5	400745
SH2D7	709506	SH2D7	646892
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SH3RF1	694082	SH3RF1	57630
SH3RF2	707158	SH3RF2	153769
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SH3TC2	709970	SH3TC2	79628
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SHH	716553	SHH	6469
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SHOX2	704327	SHOX2	6474
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SKP1	100423634	SKP1	6500
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SMAD6	714733	SMAD6	4091
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SMAD9	694572	SMAD9	4093
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SMARCAL1	695741	SMARCAL1	50485
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SMARCD3	715080	SMARCD3	6604
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SMC1B	713486	SMC1B	27127
SMC2	713359	SMC2	10592
SMC3	695123	SMC3	9126
SMC4	702615	SMC4	10051
SMC5	702219	SMC5	23137
SMCHD1	695870	SMCHD1	23347
SMCP	713661	SMCP	4184
SMCR7	700705	SMCR7	125170
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SMEK2	718961	SMEK2	57223
SMG5	719446	SMG5	23381
SMG7	717603	SMG7	9887
SMN1	677703	SMN2	6607
SMN1	677703	SMN1	6606
SMNDC1	694761	SMNDC1	10285

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SNRPB	716578	SNRPB	6628
SNRPB2	695387	SNRPB2	6629
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SNX12	696408	SNX12	29934
SNX13	714019	SNX13	23161
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SNX7	716015	SNX7	51375
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SOAT1	716989	SOAT1	6646
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SOBP	698484	SOBP	55084
SOCS1	711180	SOCS1	8651
SOCS2	715772	SOCS2	8835
SOCS3	715680	SOCS3	9021
SOCS4	696146	SOCS4	122809
SOCS5	714998	SOCS5	9655
SOCS6	693737	SOCS7	30837
SOCS6	704108	SOCS6	9306

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SOD2	574097	SOD2	6648
SOD3	715931	SOD3	6649
SOGA1	702131	SOGA1	140710
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SOLH	695881	SOLH	6650
SORBS2	696139	SORBS2	8470
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SORD	712784	SORD	6652
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SOS2	705601	SOS2	6655
SOST	713617	SOST	50964
SOSTDC1	709577	SOSTDC1	25928
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SOX11	707983	SOX11	6664
SOX13	700802	SOX13	9580
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SOX4	706531	SOX4	6659
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SP1	702710	SP1	6667
SP140	710925	SP140	11262
SP2	694834	SP2	6668

SP3	699901	SP3	6670
SP4	712174	SP4	6671
SP5	693989	SP5	389058
SP6	694717	SP6	80320
SP7	702575	SP7	121340
SP8	706739	SP8	221833
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SPAM1	696249	SPAM1	6677
SPARC	712388	SPARC	6678
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SPECC1L	707641	SPECC1L	23384
SPEF1	717547	SPEF1	25876
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SPERT	707821	SPERT	220082
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SPINK1	708951	SPINK1	6690
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SPTB	711142	SPTB	6710

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SPTBN4	701922	SPTBN4	57731
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SPTY2D1	693282	SPTY2D1	144108
SPZ1	710676	SPZ1	84654
SQLE	706764	SQLE	6713
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SRA1	698169	SRA1	10011
SRC	701057	SRC	6714
SRCAP	712944	SRCAP	10847
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SRD5A2	705676	SRD5A2	6716
SRD5A3	696381	SRD5A3	79644
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SRGAP1	717169	SRGAP1	57522
SRGAP2	695724	SRGAP2	23380
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SRI	705215	SRI	6717
SRM	714028	SRM	6723
SRMS	719587	SRMS	6725
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SRP54	694360	SRP54	6729
SRP68	705568	SRP68	6730
SRP72	694604	SRP72	6731
SRPK1	719039	SRPK1	6732

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SRPK3	100429812	SRPK3	26576
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SRPX	697145	SRPX	8406
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SSBP2	711752	SSBP2	23635
SSBP3	715114	SSBP3	23648
SSBP4	719496	SSBP4	170463
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SSH2	711898	SSH2	85464
SSH3	712699	SSH3	54961
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SSPN	708482	SSPN	8082
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SSR3	706518	SSR3	6747
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SSRP1	706614	SSRP1	6749

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ST18	709973	ST18	9705
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ST7	704776	ST7	7982
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STAT1	693650	STAT1	6772
STAT2	712694	STAT2	6773
STAT3	574128	STAT3	6774
STAT4	693854	STAT4	6775
STAT5A	574129	STAT5A	6776
STAT5B	709760	STAT5B	6777
STAT6	714159	STAT6	6778
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STK24	697841	STK24	8428
STK25	701297	STK25	10494
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STK31	703886	STK31	56164
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STK32B	711509	STK32B	55351
STK33	705791	STK33	65975
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STMN1	719733	STMN1	3925
STMN2	699264	STMN2	11075
STMN4	712651	STMN4	81551
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STON1-GTF2A1L	715957	STON1-GTF2A1L	286749
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STOX2	693692	STOX2	56977
STRA6	701591	STRA6	64220
STRADA	717927	STRADA	92335
STRADB	641449	STRADB	55437
STRBP	695402	STRBP	55342

STRC	677720	STRC	161497
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STRN3	717081	STRN3	29966
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STS	707799	STS	412
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STX16	694811	STX16	8675
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SUB1	701045	SUB1	10923
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SUCLG1	693991	SUCLG1	8802
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SUDS3	696166	SUDS3	64426
SUFU	713576	SUFU	51684
SUGP1	719772	SUGP1	57794

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SUGT1	694046	SUGT1	10910
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SULT6B1	709105	SULT6B1	391365
SUMO2	714892	SUMO2	6613
SUMO3	710764	SUMO3	6612
SUN5	710995	SUN5	140732
SUPT3H	703447	SUPT3H	8464
SUPT4H1	710214	SUPT4H1	6827
SUPT5H	697337	SUPT5H	6829
SUPT6H	716230	SUPT6H	6830
SUPT7L	702030	SUPT7L	9913
SUPV3L1	712081	SUPV3L1	6832
SURF1	722212	SURF1	6834
SURF2	100430364	SURF2	6835
SURF4	100429963	SURF4	6836
SURF6	713922	SURF6	6838
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SUV39H1	711040	SUV39H1	6839
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SUV420H1	710481	SUV420H1	51111
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SV2C	706753	SV2C	22987
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SVOP	706495	SVOP	55530
SVOPL	710319	SVOPL	136306
SWAP70	703651	SWAP70	23075
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SYBU	699436	SYBU	55638
SYCE1	703593	SYCE1	93426
SYCE3	720691	SYCE3	644186
SYCP1	709189	SYCP1	6847
SYCP2	100423232	SYCP2	10388
SYCP2L	702795	SYCP2L	221711
SYCP3	697075	SYCP3	50511
SYDE2	711151	SYDE2	84144
SYK	704102	SYK	6850
SYN3	100430213	SYN3	8224
SYNC	709783	SYNC	81493
SYNCRIP	696756	SYNCRIP	10492
SYNE1	711782	SYNE1	23345
SYNE2	706759	SYNE2	23224
SYNE4	711904	SYNE4	163183
SYNGAP1	717858	SYNGAP1	8831
SYNGR1	100427479	SYNGR1	9145
SYNGR2	709310	SYNGR2	9144
SYNGR4	717913	SYNGR4	23546
SYNJ1	707829	SYNJ1	8867
SYNJ2BP	699006	SYNJ2BP-COX16	100529257
SYNJ2BP	713312	SYNJ2BP	55333
SYNM	717194	SYNM	23336
SYNPO	711221	SYNPO	11346
SYNPO2	704894	SYNPO2	171024
SYNPR	699098	SYNPR	132204

SYNRG	717750	SYNRG	11276
SYP	715739	SYP	6855
SYPL1	698350	SYPL1	6856
SYPL2	698562	SYPL2	284612
SYS1	717604	SYS1	90196
SYT1	695390	SYT1	6857
SYT11	719350	SYT11	23208
SYT12	721773	SYT12	91683
SYT14	717383	SYT14	255928
SYT15	694530	SYT15	83849
SYT16	705114	SYT16	83851
SYT17	694130	SYT17	51760
SYT2	706962	SYT2	127833
SYT4	694191	SYT4	6860
SYT6	708175	SYT6	148281
SYT9	710800	SYT9	143425
SYTL1	715833	SYTL1	84958
SYTL2	703187	SYTL2	54843
SYTL3	699497	SYTL3	94120
SYVN1	716698	SYVN1	84447
T	705706	T	6862
TAAR1	708944	TAAR1	134864
TAAR2	714074	TAAR2	9287
TAAR5	709325	TAAR5	9038
TAAR6	709418	TAAR6	319100
TAB1	703409	TAB1	10454
TAB2	696875	TAB2	23118
TAB3	707630	TAB3	257397
TAC1	697350	TAC1	6863
TAC3	713978	TAC3	6866
TACC1	706243	TACC1	6867
TACC2	705497	TACC2	10579
TACC3	712898	TACC3	10460
TACO1	717828	TACO1	51204

TACR1	653008	TACR1	6869
TACR2	711842	TACR2	6865
TACR3	653013	TACR3	6870
TADA1	696945	TADA1	117143
TADA3	700090	TADA3	10474
TAF1	698800	TAF1	6872
TAF10	710022	TAF10	6881
TAF11	718732	TAF11	6882
TAF12	717135	TAF12	6883
TAF1A	704624	TAF1A	9015
TAF1D	696602	TAF1D	79101
TAF1L	704539	TAF1L	138474
TAF2	702411	TAF2	6873
TAF4B	710168	TAF4B	6875
TAF5	714558	TAF5	6877
TAF5L	693770	TAF5L	27097
TAF6	710863	TAF6	6878
TAF6L	722233	TAF6L	10629
TAF7	574347	TAF7	6879
TAF7L	702772	TAF7L	54457
TAF9	700239	TAF9	6880
TAF9B	706433	TAF9B	51616
TAGAP	701690	TAGAP	117289
TAGLN2	719527	TAGLN2	8407
TAGLN3	707572	TAGLN3	29114
TAL2	712138	TAL2	6887
TANC1	699196	TANC1	85461
TANC2	717679	TANC2	26115
TANK	700942	TANK	10010
TAOK2	707777	TAOK2	9344
TAP1	717726	TAP1	6890
TAP2	717742	TAP2	6891
TAPBP	718235	TAPBP	6892
TAPBPL	712626	TAPBPL	55080

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TARBP1	712397	TARBP1	6894
TARBP2	703294	TARBP2	6895
TARDBP	713860	TARDBP	23435
TARP	705095	TARP	445347
TARSL2	698423	TARSL2	123283
TAS1R1	720987	TAS1R1	80835
TAS1R2	714666	TAS1R2	80834
TAS2R1	696264	TAS2R1	50834
TAS2R10	717960	TAS2R10	50839
TAS2R13	718046	TAS2R13	50838
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TAS2R20	693643	TAS2R20	259295
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TAS2R38	695549	TAS2R38	5726
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TAS2R41	706842	TAS2R41	259287
TAS2R42	695053	TAS2R42	353164
TAS2R46	694814	TAS2R30	259293
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TAS2R5	694858	TAS2R5	54429
TAS2R60	706742	TAS2R60	338398
TAS2R7	717909	TAS2R7	50837
TASP1	694028	TASP1	55617
TAT	708005	TAT	6898
TATDN1	706095	TATDN1	83940
TAX1BP1	698103	TAX1BP1	8887
TAX1BP3	706829	TAX1BP3	30851
TAZ	574297	TAZ	6901
TBC1D1	697357	TBC1D1	23216
TBC1D10C	712270	TBC1D10C	374403

TBC1D12	702000	TBC1D12	23232
TBC1D13	722600	TBC1D13	54662
TBC1D14	722719	TBC1D14	57533
TBC1D15	718743	TBC1D15	64786
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TBC1D2	715322	TBC1D2	55357
TBC1D20	716852	TBC1D20	128637
TBC1D21	700124	TBC1D21	161514
TBC1D23	701253	TBC1D23	55773
TBC1D24	697106	TBC1D24	57465
TBC1D25	710596	TBC1D25	4943
TBC1D2B	716076	TBC1D2B	23102
TBC1D30	717527	TBC1D30	23329
TBC1D4	696915	TBC1D4	9882
TBC1D5	696122	TBC1D5	9779
TBC1D7	718103	TBC1D7	51256
TBC1D8	710649	TBC1D8	11138
TBC1D8B	701409	TBC1D8B	54885
TBC1D9	702230	TBC1D9	23158
TBCC	696997	TBCC	6903
TBCCD1	700153	TBCCD1	55171
TBCE	711476	TBCE	6905
TBCEL	706506	TBCEL	219899
TBCK	694605	TBCK	93627
TBK1	717427	TBK1	29110
TBKBP1	693913	TBKBP1	9755
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TBL2	716515	TBL2	26608
TBL3	693864	TBL3	10607
TBP	696258	TBP	6908
TBRG1	711895	TBRG1	84897

TBRG4	697717	TBRG4	9238
TBX15	712254	TBX15	6913
TBX18	696007	TBX18	9096
TBX19	699312	TBX19	9095
TBX20	707576	TBX20	57057
TBX21	694044	TBX21	30009
TBX22	708338	TBX22	50945
TBX3	713740	TBX3	6926
TBX4	712702	TBX4	9496
TBX5	713550	TBX5	6910
TBX6	710353	TBX6	6911
TBXAS1	711748	TBXAS1	6916
TC2N	697132	TC2N	123036
TCAP	697327	TCAP	8557
TCEA1	693579	TCEA1	6917
TCEA2	694026	TCEA2	6919
TCEAL1	696826	TCEAL1	9338
TCEAL5	695800	TCEAL5	340543
TCEAL7	695831	TCEAL7	56849
TCEAL8	695496	TCEAL8	90843
TCEANC2	714992	TCEANC2	127428
TCEB1	698922	TCEB1	6921
TCEB2	715218	TCEB2	6923
TCEB3	710467	TCEB3	6924
TCEB3B	702788	TCEB3B	51224
TCERG1	707912	TCERG1	10915
TCF19	714141	TCF19	6941
TCF20	710016	TCF20	6942
TCF21	707680	TCF21	6943
TCF23	698948	TCF23	150921
TCF25	698977	TCF25	22980
TCF4	695814	TCF4	6925
TCF7L1	694560	TCF7L1	83439
TCHH	703071	CCDC89	220388

TCIRG1	710650	TCIRG1	10312
TCL1B	703241	TCL1B	9623
TCN1	698583	TCN1	6947
TCN2	716085	TCN2	6948
TCOF1	664735	TCOF1	6949
TCP1	702500	TCP1	6950
TCP10L	700847	TCP10L	140290
TCP11	718695	TCP11	6954
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TCTA	706633	TCTA	6988
TCTE1	702738	TCTE1	202500
TCTE3	695431	TCTE3	6991
TCTEX1D1	699673	TCTEX1D1	200132
TCTEX1D4	704192	TCTEX1D4	343521
TCTN1	711207	TCTN1	79600
TCTN2	721415	TCTN2	79867
TCTN3	703844	TCTN3	26123
TDG	700061	TDG	6996
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TDP2	715162	TDP2	51567
TDRD1	698388	TDRD1	56165
TDRD12	702953	TDRD12	91646
TDRD5	716831	TDRD5	163589
TDRD6	704453	TDRD6	221400
TDRD7	641450	TDRD7	23424
TDRD9	701635	TDRD9	122402
TDRKH	716968	TDRKH	11022
TEAD1	700954	TEAD1	7003
TEAD2	718703	TEAD2	8463
TEC	705357	TEC	7006
TECRL	712290	TECRL	253017
TECTB	696153	TECTB	6975
TEDDM1	715874	TEDDM1	127670

TEF	707009	TEF	7008
TEK	707455	TEK	7010
TEKT1	713555	TEKT1	83659
TEKT3	693793	TEKT3	64518
TEKT4	708925	TEKT4	150483
TELO2	701679	TELO2	9894
TENC1	700813	TENC1	23371
TEP1	703733	TEP1	7011
TEPP	706183	TEPP	374739
TERF1	695119	TERF1	7013
TERF2	704879	TERF2	7014
TERF2IP	712149	TERF2IP	54386
TES	706879	TES	26136
TESC	693518	TESC	54997
TESK1	697206	TESK1	7016
TET1	693707	TET1	80312
TET2	694137	TET2	54790
TET3	707759	TET3	200424
TEX10	714536	TEX10	54881
TEX11	697543	TEX11	56159
TEX12	711488	TEX12	56158
TEX14	714776	TEX14	56155
TEX15	695236	TEX15	56154
TEX19	716048	TEX19	400629
TEX2	718268	TEX2	55852
TEX261	703863	TEX261	113419
TEX264	700350	TEX264	51368
TEX28	699141	TEX28	1527
TEX30	701917	TEX30	93081
TEX9	699256	TEX9	374618
TFAM	701368	TFAM	7019
TFAP2A	700663	TFAP2A	7020
TFAP2B	707679	TFAP2B	7021
TFAP2C	705384	TFAP2C	7022

TFAP2D	707582	TFAP2D	83741
TFB1M	701830	TFB1M	51106
TFB2M	703287	TFB2M	64216
TFCP2	574399	TFCP2	7024
TFCP2L1	696479	TFCP2L1	29842
TFDP1	715345	TFDP1	7027
TFDP2	714655	TFDP2	7029
TFDP3	706557	TFDP3	51270
TFE3	712161	TFE3	7030
TFEB	694214	TFEB	7942
TFEC	704124	TFEC	22797
TFG	700972	TFG	10342
TFIP11	712691	TFIP11	24144
TFPI	613026	TFPI	7035
TFPI2	700850	TFPI2	7980
TFPT	720296	TFPT	29844
TFR2	719240	TFR2	7036
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TGFB2	707540	TGFB2	7042
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TGFBI	712503	TGFBI	7045
TGFBR1	714952	TGFBR1	7046
TGFBR2	703088	TGFBR2	7048
TGFBR3	705053	TGFBR3	7049
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TGIF1	694580	TGIF1	7050
TGIF2	100429616	TGIF2	60436
TGIF2LX	574239	TGIF2LX	90316
TGM1	715854	TGM1	7051
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TGM4	714883	TGM4	7047

TGM5	712605	TGM5	9333
TGM7	712676	TGM7	116179
TGS1	695339	TGS1	96764
TH	721137	TH	7054
TH1L	696053	TH1L	51497
THAP1	705845	THAP1	55145
THAP10	696770	THAP10	56906
THAP11	700354	THAP11	57215
THAP2	718687	THAP2	83591
THAP3	704946	THAP3	90326
THAP4	701543	THAP4	51078
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THAP7	696208	THAP7	80764
THAP8	712281	THAP8	199745
THAP9	693821	THAP9	79725
THBD	702132	THBD	7056
THBS1	705413	THBS1	7057
THBS2	708165	THBS2	7058
THBS3	717572	THBS3	7059
THBS4	574276	THBS4	7060
THEG	701561	THEG	51298
THG1L	715853	THG1L	54974
THNSL1	706766	THNSL1	79896
THOC1	697954	THOC1	9984
THOC2	697668	THOC2	57187
THOC3	695561	THOC3	84321
THOC4	714852	ALYREF	10189
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THOC7	701741	THOC7	80145
THRAP3	713033	THRAP3	9967
THRB	699969	THRB	7068
THRSP	699701	THRSP	7069
THSD1	100430746	THSD1	55901

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THUMPD3	701564	THUMPD3	25917
THY1	705321	THY1	7070
THYN1	700413	THYN1	29087
TIA1	702366	TIA1	7072
TIAM1	702288	TIAM1	7074
TICAM1	574294	TICAM1	148022
TICAM2	100426353	TMED7-TICAM2	100302736
TIFA	700865	TIFA	92610
TIGD4	695777	TIGD4	201798
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TIMM10	705930	TIMM10	26519
TIMM13	711014	TIMM13	26517
TIMM17A	707001	TIMM17A	10440
TIMM44	709800	TIMM44	10469
TIMM8A	702885	TIMM8A	1678
TIMM8B	715327	TIMM8B	26521
TIMM9	693799	TIMM9	26520
TIMM9	701005	TIMM9	26520
TIMP1	574348	TIMP1	7076
TIMP2	574357	TIMP2	7077
TIMP3	574381	TIMP3	7078
TIMP4	100427947	TIMP4	7079
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TIPARP	706180	TIPARP	25976
TIPRL	699058	TIPRL	261726
TIRAP	714377	TIRAP	114609
TJAP1	700496	TJAP1	93643
TJP1	720550	TJP1	7082
TJP3	721760	TJP3	27134
TK1	709403	TK1	7083

TK2	693544	TK2	7084
TKTL1	699278	TKTL1	8277
TKTL2	706986	TKTL2	84076
TLCD1	710391	TLCD1	116238
TLCD2	721241	TLCD2	727910
TLE1	707336	TLE1	7088
TLE4	706619	TLE4	7091
TLK1	694298	TLK1	9874
TLK2	716528	TLK2	11011
TLL1	705831	TLL1	7092
TLL2	705290	TLL2	7093
TLN1	696298	TLN1	7094
TLN2	705008	TLN2	83660
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TLR10	697980	TLR10	81793
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TLR6	574342	TLR6	10333
TLR7	574291	TLR7	51284
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TLR9	574395	TLR9	54106
TLX2	709649	TLX2	3196
TLX3	701703	TLX3	30012
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TM2D3	695111	TM2D3	80213
TM4SF1	711908	TM4SF1	4071
TM4SF18	712063	TM4SF18	116441
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TM4SF20	708719	TM4SF20	79853
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TM6SF2	719756	TM6SF2	53345

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TMC1	704827	TMC1	117531
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TMCO2	693977	TMCO2	127391
TMCO3	700966	TMCO3	55002
TMCO4	703851	TMCO4	255104
TMCO7	704499	TMCO7	79613
TMED1	713618	TMED1	11018
TMED3	711993	TMED3	23423
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TMED5	707311	TMED5	50999
TMED6	704771	TMED6	146456
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TMEM101	714166	TMEM101	84336
TMEM102	715461	TMEM102	284114
TMEM104	698592	TMEM104	54868
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TMEM107	716961	TMEM107	84314

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TMEM114	708628	TMEM114	283953
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TMEM117	700812	TMEM117	84216
TMEM121	700005	TMEM121	80757
TMEM123	702833	TMEM123	114908
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TMEM126B	702719	TMEM126B	55863
TMEM127	705069	TMEM127	55654
TMEM131	711688	TMEM131	23505
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TMEM132C	716106	TMEM132C	92293
TMEM132E	715004	TMEM132E	124842
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TMEM144	700866	TMEM144	55314
TMEM145	709268	TMEM145	284339
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TMEM151A	721836	TMEM151A	256472
TMEM155	707055	TMEM155	132332
TMEM156	698617	TMEM156	80008
TMEM159	697344	TMEM159	57146
TMEM160	716996	TMEM160	54958
TMEM161B	694351	TMEM161B	153396

TMEM164	705380	TMEM164	84187
TMEM165	696262	TMEM165	55858
TMEM167B	697418	TMEM167B	56900
TMEM168	702972	TMEM168	64418
TMEM170A	100427224	TMEM170A	124491
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TMEM173	694353	TMEM173	340061
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TMEM175	696545	TMEM175	84286
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TMEM176B	713997	TMEM176B	28959
TMEM177	695399	TMEM177	80775
TMEM179B	718518	TMEM179B	374395
TMEM180	713443	TMEM180	79847
TMEM182	712344	TMEM182	130827
TMEM183A	704195	TMEM183A	92703
TMEM184A	697461	TMEM184A	202915
TMEM184B	700445	TMEM184B	25829
TMEM184C	704349	TMEM184C	55751
TMEM185A	705538	TMEM185A	84548
TMEM185B	695744	TMEM185B	79134
TMEM187	698397	TMEM187	8269
TMEM188	694061	CNEP1R1	255919
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TMEM19	718700	TMEM19	55266
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TOP2B	677709	TOP2B	7155
TOP3A	700830	TOP3A	7156
TOP3B	698317	TOP3B	8940
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TOPORS	703930	TOPORS	10210
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TOR1B	716582	TOR1B	27348
TOR2A	700203	TOR2A	27433
TOR3A	717100	TOR3A	64222
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TOX3	696002	TOX3	27324
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TP53BP2	705383	TP53BP2	7159
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TRAF7	695415	TRAF7	84231
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TXK	705104	TXK	7294
TXLNB	707955	TXLNB	167838
TXN	712587	TXN	7295
TXN	693792	TXN	7295
TXNDC11	711826	TXNDC11	51061
TXNDC12	713426	TXNDC12	51060
TXNDC17	712910	TXNDC17	84817
TXNDC3	705583	NME8	51314
TXNDC6	716434	NME9	347736
TXNDC8	709558	TXNDC8	255220
TXNDC9	709303	TXNDC9	10190
TXNIP	698683	TXNIP	10628
TXNL1	695194	TXNL1	9352
TXNL4A	698969	TXNL4A	10907
TXNL4B	706840	TXNL4B	54957
TXNRD1	701062	TXNRD1	7296
TXNRD2	712475	TXNRD2	10587
TYK2	574130	TYK2	7297
TYMP	716161	TYMP	1890
TYMS	697580	TYMS	7298
TYR	705792	TYR	7299
TYRO3	710902	TYRO3	7301
TYROBP	574207	TYROBP	7305
TYRP1	714646	TYRP1	7306
TYSND1	100425207	TYSND1	219743
TYW1	703026	TYW1	55253

TYW3	704515	TYW3	127253
UACA	696026	UACA	55075
UAP1	720116	UAP1	6675
UAP1L1	100427106	UAP1L1	91373
UBA1	706324	UBA1	7317
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UBA52	720243	UBA52	7311
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UBA7	704875	UBA7	7318
UBAC2	703484	UBAC2	337867
UBAP1	701140	UBAP1	51271
UBAP2L	716417	UBAP2L	9898
UBASH3B	707452	UBASH3B	84959
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UBD	711020	UBD	10537
UBE2A	693716	UBE2A	7319
UBE2B	710678	UBE2B	7320
UBE2C	709380	UBE2C	11065
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UBE2E2	699101	UBE2E2	7325
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UBE2G2	710862	UBE2G2	7327
UBE2H	702056	UBE2H	7328
UBE2I	722434	UBE2I	7329
UBE2J1	701100	UBE2J1	51465
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UBE2L3	699895	UBE2L3	7332
UBE2M	712206	UBE2M	9040
UBE2N	715437	UBE2N	7334

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UBE4A	699836	UBE4A	9354
UBE4B	713348	UBE4B	10277
UBFD1	700601	UBFD1	56061
UBIAD1	714320	UBIAD1	29914
UBL3	712491	UBL3	5412
UBL4A	700643	UBL4A	8266
UBL4B	701055	UBL4B	164153
UBL5	711015	UBL5	59286
UBLCP1	694476	UBLCP1	134510
UBN1	706838	UBN1	29855
UBN2	711019	UBN2	254048
UBOX5	717166	UBOX5	22888
UBP1	706283	UBP1	7342
UBQLN3	714488	UBQLN3	50613
UBR1	709238	UBR1	197131
UBR2	696507	UBR2	23304
UBR3	710524	UBR3	130507
UBR5	707163	UBR5	51366
UBR7	698882	UBR7	55148
UBTD1	706430	UBTD1	80019
UBTD2	709455	UBTD2	92181
UBXN1	718643	UBXN1	51035
UBXN10	705058	UBXN10	127733
UBXN11	719826	UBXN11	91544
UBXN2B	698001	UBXN2B	137886

UBXN4	712091	UBXN4	23190
UBXN6	715070	UBXN6	80700
UCHL3	697276	UCHL3	7347
UCK1	715417	UCK1	83549
UCK2	695725	UCK2	7371
UCKL1	694692	UCKL1	54963
UCN	699942	UCN	7349
UCN3	711921	UCN3	114131
UCP1	574124	UCP1	7350
UCP2	574198	UCP2	7351
UCP3	574125	UCP3	7352
UEVLD	693656	UEVLD	55293
UFD1L	711716	UFD1L	7353
UFL1	704454	UFL1	23376
UFM1	695866	UFM1	51569
UFSP1	713302	UFSP1	402682
UGCG	707875	UGCG	7357
UGDH	699500	UGDH	7358
UGGT1	700462	UGGT1	56886
UGGT2	697784	UGGT2	55757
UGP2	695178	UGP2	7360
UGT1A1	574210	UGT1A1	54658
UGT2A3	709420	UGT2A3	79799
UGT2B15	710412	UGT2B15	7366
UGT2B33	574147	UGT2B7	7364
UGT2B4	709234	UGT2B4	7363
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UGT3A1	700115	UGT3A1	133688
UGT3A2	700238	UGT3A2	167127
UGT8	702979	UGT8	7368
UHMK1	720105	UHMK1	127933
UHRF1	695531	UHRF1	29128
UHRF1BP1	718719	UHRF1BP1	54887

UHRF1BP1L	694816	UHRF1BP1L	23074
UHRF2	715610	UHRF2	115426
UIMC1	705412	UIMC1	51720
ULK2	710708	ULK2	9706
UMOD	695883	UMOD	7369
UMODL1	714707	UMODL1	89766
UMPS	715664	UMPS	7372
UNC119B	698066	UNC119B	84747
UNC13B	697393	UNC13B	10497
UNC13C	697368	UNC13C	440279
UNC13D	704431	UNC13D	201294
UNC45A	715579	UNC45A	55898
UNC45B	715419	UNC45B	146862
UNC50	677700	UNC50	25972
UNC5B	715786	UNC5B	219699
UNC5C	705591	UNC5C	8633
UNC5CL	719655	UNC5CL	222643
UNC5D	697619	UNC5D	137970
UNC80	713007	UNC80	285175
UNC93A	717467	UNC93A	54346
UNC93B1	710928	UNC93B1	81622
UNG	706816	UNG	7374
UNK	708156	UNK	85451
UPB1	707752	UPB1	51733
UPF2	693842	UPF2	26019
UPF3B	694247	UPF3B	65109
UPK1A	710131	UPK1A	11045
UPK1B	711907	UPK1B	7348
UPK2	707184	UPK2	7379
UPK3A	717456	UPK3A	7380
UPK3BL	715281	UPK3BL	100134938
UPP1	695317	UPP1	7378
UPRT	704157	UPRT	139596
UQCR	708396	UQCR11	10975

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UQCRC2	697967	UQCRC2	7385
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URGCP	700358	URGCP	55665
URI1	700838	URI1	8725
URM1	722618	URM1	81605
UROC1	716511	UROC1	131669
UROD	705166	UROD	7389
UROS	696043	UROS	7390
USE1	718905	USE1	55850
USF1	719835	USF1	7391
USH2A	708278	USH2A	7399
USHBP1	718938	USHBP1	83878
USMG5	100428450	USMG5	84833
USO1	701202	USO1	8615
USP1	695157	USP1	7398
USP10	718471	USP10	9100
USP11	706555	USP11	8237
USP13	708624	USP13	8975
USP14	698087	USP14	9097
USP15	716793	USP15	9958
USP16	706403	USP16	10600
USP17	700883	LOC100287144	100287144
USP17L2	695235	USP17L2	377630
USP18	718792	USP18	11274
USP19	707512	USP19	10869
USP2	705191	USP2	9099
USP20	716505	USP20	10868
USP21	719894	USP21	27005
USP24	717178	USP24	23358

USP25	716923	USP25	29761
USP26	706435	USP26	83844
USP28	696672	USP28	57646
USP29	706514	USP29	57663
USP3	705973	USP3	9960
USP30	706607	USP30	84749
USP31	699540	USP31	57478
USP34	718028	USP34	9736
USP36	710393	USP36	57602
USP38	700235	USP38	84640
USP39	696217	USP39	10713
USP4	706930	USP4	7375
USP40	718032	USP40	55230
USP42	703559	USP42	84132
USP43	100428727	USP43	124739
USP45	694340	USP45	85015
USP46	698618	USP46	64854
USP47	701660	USP47	55031
USP49	694862	USP49	25862
USP5	714032	USP5	8078
USP51	705861	USP51	158880
USP53	705228	USP53	54532
USP6NL	694275	USP6NL	9712
USP7	714625	USP7	7874
USP8	715523	USP8	9101
USP9X	100270703	USP9X	8239
UST	697355	UST	10090
UTP14A	703510	UTP14A	10813
UTP14C	709657	UTP14C	9724
UTP15	703573	UTP15	84135
UTP18	708052	UTP18	51096
UTP20	696472	UTP20	27340
UTP23	702915	UTP23	84294
UTP3	706536	UTP3	57050

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UTRN	699498	UTRN	7402
UTS2	574246	UTS2	10911
UTS2D	705342	UTS2D	257313
UTS2R	574245	UTS2R	2837
UVRAG	696601	UVRAG	7405
UXT	712682	UXT	8409
VAC14	708741	VAC14	55697
VAMP1	722049	VAMP1	6843
VAMP2	574134	VAMP2	6844
VAMP3	707972	VAMP3	9341
VAMP4	704733	VAMP4	8674
VAMP5	695471	VAMP5	10791
VAMP7	704160	VAMP7	6845
VAMP8	695851	VAMP8	8673
VANGL2	720239	VANGL2	57216
VAPB	695049	VAPB	9217
VARS	715537	VARS	7407
VASH1	703906	VASH1	22846
VASH2	709924	VASH2	79805
VAT1	100424563	VAT1	10493
VAV2	713227	VAV2	7410
VAV3	694685	VAV3	10451
VAX1	700752	VAX1	11023
VAX1	701963	VENTX	27287
VAX2	703531	VAX2	25806
VBP1	703257	VBP1	7411
VCAM1	712036	VCAM1	7412
VCAN	712365	VCAN	1462
VCL	721921	VCL	7414
VCPIP1	703582	VCPIP1	80124
VDAC1	710045	VDAC1	7416
VDAC2	704257	VDAC2	7417
VDR	706964	VDR	7421

VEGFA	574209	VEGFA	7422
VEGFC	699502	VEGFC	7424
VEPH1	704876	VEPH1	79674
VEZF1	713848	VEZF1	7716
VEZT	716675	VEZT	55591
VGLL1	693717	VGLL1	51442
VGLL2	715427	VGLL2	245806
VGLL4	699034	VGLL4	9686
VIL1	698946	VIL1	7429
VILL	696988	VILL	50853
VIM	705289	VIM	7431
VIMP	694752	VIMP	55829
VIP	703566	VIP	7432
VIPR1	717438	VIPR1	7433
VIPR2	706344	VIPR2	7434
VIT	708384	VIT	5212
VKORC1L1	697591	VKORC1L1	154807
VLDLR	574284	VLDLR	7436
VMAC	697958	VMAC	400673
VMO1	709950	VMO1	284013
VNN1	708830	VNN1	8876
VNN2	708637	VNN2	8875
VPRBP	700596	VPRBP	9730
VPREB1	698810	VPREB1	7441
VPREB3	698694	VPREB3	29802
VPS11	702834	VPS11	55823
VPS13B	704477	VPS13B	157680
VPS16	100426686	VPS16	64601
VPS18	704795	VPS18	57617
VPS24	697894	RNF103-CHMP3	100526767
VPS26A	717371	VPS26A	9559
VPS26B	694566	VPS26B	112936
VPS28	702412	VPS28	51160
VPS33A	702257	VPS33A	65082

VPS33B	704144	VPS33B	26276
VPS36	693290	VPS36	51028
VPS37B	703415	VPS37B	79720
VPS37C	694898	VPS37C	55048
VPS39	707791	VPS39	23339
VPS41	712457	VPS41	27072
VPS45	706035	VPS45	11311
VPS4A	705277	VPS4A	27183
VPS4B	707614	VPS4B	9525
VPS52	100430905	VPS52	6293
VPS54	695397	VPS54	51542
VPS72	709818	VPS72	6944
VPS8	701567	VPS8	23355
VRK1	704798	VRK1	7443
VRK2	719132	VRK2	7444
VRK3	719158	VRK3	51231
VRTN	699513	VRTN	55237
VSIG1	703739	VSIG1	340547
VSIG2	712047	VSIG2	23584
VSIG4	709685	VSIG4	11326
VSTM2A	705954	VSTM2A	222008
VSTM2L	707394	VSTM2L	128434
VSX2	699261	VSX2	338917
VTA1	701578	VTA1	51534
VTI1B	711113	VTI1B	10490
VTN	708499	VTN	7448
VWA1	701765	VWA1	64856
VWA2	698261	VWA2	340706
VWA5A	710024	VWA5A	4013
VWA5B1	717269	VWA5B1	127731
VWA5B2	702960	VWA5B2	90113
VWC2L	694511	VWC2L	402117
VWCE	694385	VWCE	220001
VWF	722019	VWF	7450

WAC	715828	WAC	51322
WAPAL	700171	WAPAL	23063
WARS	706855	WARS	7453
WARS2	712332	WARS2	10352
WASF3	709849	WASF3	10810
WASL	696556	WASL	8976
WBP11	699451	WBP11	51729
WBP1L	713887	WBP1L	54838
WBP2	704545	WBP2	23558
WBP4	698220	WBP4	11193
WBP5	696661	WBP5	51186
WBSCR16	694334	WBSCR16	81554
WBSCR17	695207	WBSCR17	64409
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WDFY3	706535	WDFY3	23001
WDFY4	719472	WDFY4	57705
WDHD1	695910	WDHD1	11169
WDR1	712989	WDR1	9948
WDR11	714990	WDR11	55717
WDR12	710235	WDR12	55759
WDR16	722040	WDR16	146845
WDR17	700546	WDR17	116966
WDR18	704547	WDR18	57418
WDR19	698866	WDR19	57728
WDR20	708533	WDR20	91833
WDR24	697343	WDR24	84219
WDR3	711960	WDR3	10885
WDR31	705565	WDR31	114987
WDR33	699696	WDR33	55339
WDR35	716638	WDR35	57539
WDR37	709975	WDR37	22884
WDR38	693858	WDR38	401551
WDR4	714230	WDR4	10785
WDR41	708223	WDR41	55255

WDR43	704047	WDR43	23160
WDR44	710598	WDR44	54521
WDR45	715262	WDR45	11152
WDR46	718220	WDR46	9277
WDR47	696942	WDR47	22911
WDR48	695026	WDR48	57599
WDR49	699853	WDR49	151790
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WDR5B	714703	WDR5B	54554
WDR6	708505	WDR6	11180
WDR60	705405	WDR60	55112
WDR61	709971	WDR61	80349
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WDR7	695302	WDR7	23335
WDR70	706130	WDR70	55100
WDR72	697128	WDR72	256764
WDR74	718460	WDR74	54663
WDR75	709104	WDR75	84128
WDR77	677686	WDR77	79084
WDR82	697708	WDR82	80335
WDR83	716260	WDR83	84292
WDR89	706314	WDR89	112840
WDR90	100424635	WDR90	197335
WDR91	707674	WDR91	29062
WDR92	705391	WDR92	116143
WDSUB1	699456	WDSUB1	151525
WDTC1	715790	WDTC1	23038
WDYHV1	704686	WDYHV1	55093
WEE1	703760	WEE1	7465
WEE2	694392	WEE2	494551
WFDC10A	717384	WFDC10A	140832

WFDC11	709928	WFDC11	259239
WFDC12	711552	WFDC12	128488
WFDC13	717327	WFDC13	164237
WFDC2	710469	WFDC2	10406
WFDC5	711627	WFDC5	149708
WFDC8	710108	WFDC8	90199
WFDC9	714926	WFDC9	259240
WFIKKN1	722338	WFIKKN1	117166
WFIKKN2	703871	WFIKKN2	124857
WFS1	710948	WFS1	7466
WHAMM	693446	WHAMM	123720
WHSC1L1	700254	WHSC1L1	54904
WHSC2	712689	WHSC2	7469
WIBG	708148	WIBG	84305
WIF1	677704	WIF1	11197
WIPF1	698446	WIPF1	7456
WIPF3	696503	WIPF3	644150
WISP1	697624	WISP1	8840
WISP3	695430	WISP3	8838
WLS	701411	WLS	79971
WNK1	706493	WNK1	65125
WNK2	717275	WNK2	65268
WNK3	701015	WNK3	65267
WNT1	709009	WNT1	7471
WNT10A	700692	WNT10A	80326
WNT10B	708906	WNT10B	7480
WNT11	696845	WNT11	7481
WNT16	694069	WNT16	51384
WNT2	704991	WNT2	7472
WNT2B	705773	WNT2B	7482
WNT3	716909	WNT3	7473
WNT3A	696200	WNT3A	89780
WNT4	707864	WNT4	54361
WNT5A	705692	WNT5A	7474

WNT6	700573	WNT6	7475
WNT7A	693419	WNT7A	7476
WNT7B	713864	WNT7B	7477
WNT8A	713764	WNT8A	7478
WNT8B	710242	WNT8B	7479
WNT9B	716877	WNT9B	7484
WRAP53	716125	WRAP53	55135
WRAP73	695276	WRAP73	49856
WRN	695678	WRN	7486
WRNIP1	707250	WRNIP1	56897
WSB1	706172	WSB1	26118
WSB2	710401	WSB2	55884
WSCD1	712488	WSCD1	23302
WSCD2	705062	WSCD2	9671
WT1	696061	WT1	7490
WTAP	702295	WTAP	9589
WWC1	698875	WWC1	23286
WWC2	701208	WWC2	80014
WWC3	720812	WWC3	55841
WWOX	715635	WWOX	51741
WWP1	694098	WWP1	11059
WWP2	705464	WWP2	11060
XAB2	704109	XAB2	56949
XAF1	713425	XAF1	54739
XAGE3	698267	XAGE3	170626
XAGE5	697885	XAGE5	170627
XCL1	574367	XCL1	6375
XCR1	713622	XCR1	2829
XDH	708046	XDH	7498
XG	705377	XG	7499
XIRP1	694199	XIRP1	165904
XK	696407	XK	7504
XKR6	701405	XKR6	286046
XKR9	694236	XKR9	389668

XKRX	701721	XKRX	402415
XPA	715705	XPA	7507
XPC	700938	XPC	7508
XPNPEP1	696570	XPNPEP1	7511
XPNPEP2	701972	XPNPEP2	7512
XPO1	718063	XPO1	7514
XPO4	703548	XPO4	64328
XPO5	700664	XPO5	57510
XPO6	704332	XPO6	23214
XPO7	715398	XPO7	23039
XPOT	717375	XPOT	11260
XPR1	716337	XPR1	9213
XRCC1	711457	XRCC1	7515
XRCC2	717006	XRCC2	7516
XRCC3	695788	XRCC3	7517
XRCC5	574279	XRCC5	7520
XRCC6	707975	XRCC6	2547
XRN1	714497	XRN1	54464
XRN2	700934	XRN2	22803
XRRA1	693788	XRRA1	143570
XYLB	695879	XYLB	9942
XYLT2	705139	XYLT2	64132
YAF2	699068	YAF2	10138
YARS	709003	YARS	8565
YBEY	721807	YBEY	54059
YEATS2	707409	YEATS2	55689
YES1	697099	YES1	7525
YIF1A	714486	YIF1A	10897
YIPF3	700228	YIPF3	25844
YIPF4	706819	YIPF4	84272
YIPF5	706656	YIPF5	81555
YKT6	699606	YKT6	10652
YLPM1	700167	YLPM1	56252
YOD1	693769	YOD1	55432

YPEL4	705186	YPEL4	219539
YPEL5	704532	YPEL5	51646
YSK4	712728	YSK4	80122
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ZP3	719925	ZP3	7784
ZP4	709637	ZP4	57829
ZBPB	694335	ZBPB	11055
ZBPB2	698217	ZBPB2	124626
ZPLD1	703200	ZPLD1	131368
ZRANB2	703513	ZRANB2	9406
ZRANB3	712445	ZRANB3	84083
ZSCAN10	700600	ZSCAN10	84891
ZSCAN12	707473	ZNF323	64288
ZSCAN16	706297	ZSCAN16	80345
ZSCAN2	695673	ZSCAN2	54993
ZSCAN20	710291	ZSCAN20	7579
ZSCAN21	710501	ZSCAN21	7589
ZSCAN22	712666	ZSCAN22	342945
ZSCAN23	707677	ZSCAN23	222696
ZSCAN29	710414	ZSCAN29	146050
ZSCAN30	708199	ZSCAN30	100101467

ZSCAN4	711054	ZSCAN4	201516
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ZSCAN5B	705401	ZSCAN5B	342933
ZSWIM1	717180	ZSWIM1	90204
ZSWIM2	707980	ZSWIM2	151112
ZSWIM3	708804	ZSWIM3	140831
ZSWIM7	100425037	ZSWIM7	125150
ZW10	694436	ZW10	9183
ZWILCH	710680	ZWILCH	55055
ZWINT	702198	ZWINT	11130
ZXDA	708994	ZXDA	7789
ZXDB	706216	ZXDB	158586
ZYX	706407	ZYX	7791
ZZEF1	721518	ZZEF1	23140
ZZZ3	706357	ZZZ3	26009