

Dataset 1 Genes present in channel catfish, and absent in bottlenose catfish.

Gene ID	Locus	Protein product	Length
108255763	LOC108255763	XP_017307450.1	2337
108256026	carnmt1	XP_017307985.1	418
108256526	polr1d	XP_017308970.1	172
108257874	atraid	XP_017311470.1	230
108259733	LOC108259733	XP_017314930.1	219
108262226	LOC108262226	XP_017318301.1	186
108262879	LOC108262879	XP_017318723.1	329
108264799	LOC108264799	XP_017322162.1	383
108264825	LOC108264825	XP_017322217.1	689
108265132	c1h8orf59	XP_017322758.1	98
108268648	fanca	XP_017329197.1	1141
108270530	LOC108270530	XP_017332816.1	228
108271080	LOC108271080	XP_017333819.1	342
108272891	LOC108272891	XP_017337204.1	300
108273999	ccser2	XP_017339238.1	791
108274164	bricd5	XP_017339608.1	228
108275464	mdp1	XP_017341794.1	160
100304470	b2m	NP_001187001.1	116
100304887	cript	NP_001232877.1	101
100305060	LOC100305060	NP_001187223.1	78
108259533	LOC108259533	XP_017314605.1	211
108260286	LOC108260286	XP_017315915.1	1346
108264443	LOC108264443	XP_017321459.1	449
108265414	tgoln2	XP_017323183.1	307
108266931	LOC108266931	XP_017326252.1	197
108270925	LOC108270925	XP_017333435.1	193
108271021	LOC108271021	XP_017333665.1	119
108278302	LOC108278302	XP_017347058.1	180
108280891	LOC108280891	XP_017351876.1	90
804877	ATP6	NP_612130.1	227
804880	ND1	NP_612125.1	324
100304584	LOC100304584	NP_001187095.1	105
100528356	brk1	NP_001187555.1	75
108255519	LOC108255519	XP_017307008.1	110
108256275	hert	XP_017308436.1	126
108257472	edn1	XP_017310769.1	195
108259812	cchr1	XP_017315017.1	692
108260858	LOC108260858	XP_017316999.1	231
108261098	LOC108261098	XP_017317468.1	226
108263206	borcs7	XP_017319270.1	103
108263260	LOC108263260	XP_017319384.1	100
108265761	clps	XP_017323916.1	136

108266496	LOC108266496	XP_017325497.1	114
108267632	LOC108267632	XP_017327393.1	139
108268185	LOC108268185	XP_017328487.1	215
108268439	LOC108268439	XP_017328905.1	78
108269115	LOC108269115	XP_017330184.1	86
108269806	mrps5	XP_017331332.1	400
108271223	cep19	XP_017334118.1	160
108271379	slc39a3	XP_017334439.1	315
108273111	ten1	XP_017337625.1	126
108276417	LOC108276417	XP_017343554.1	241
108276694	prr11	XP_017344007.1	299
108278804	LOC108278804	XP_017347903.1	365
108280026	LOC108280026	XP_017350293.1	305
108280749	LOC108280749	XP_017351609.1	510
804878	ND3	NP_612132.1	116
804882	ND4	NP_612134.1	460
804885	COX3	NP_612131.1	261
804886	ND6	NP_612136.1	171
100304587	LOC100304587	NP_001187096.1	92
100304595	LOC100304595	XP_017306663.1	119
100528255	cck	NP_001187454.1	123
100528304	ebag9	NP_001187503.1	212
100528339	dal1b	NP_001187538.1	102
100528727	arpc4	NP_001187926.1	168
100529001	psmf1	NP_001188200.1	270
108254817	LOC108254817	XP_017305644.1	239
108255518	LOC108255518	XP_017307006.1	112
108255701	LOC108255701	XP_017307331.1	108
108256245	LOC108256245	XP_017308375.1	111
108256436	pkia	XP_017308799.1	85
108257443	LOC108257443	XP_017310711.1	645
108257542	ociad2	XP_017310896.1	160
108258002	LOC108258002	XP_017311708.1	177
108258663	LOC108258663	XP_017312951.1	107
108259248	LOC108259248	XP_017314029.1	227
108259575	pex11a	XP_017314657.1	246
108260035	LOC108260035	XP_017315449.1	270
108260899	LOC108260899	XP_017317094.1	264
108262451	LOC108262451	XP_017318391.1	224
108263381	pdss2	XP_017319591.1	381
108264196	LOC108264196	XP_017321018.1	231
108264363	tsnaxip1	XP_017321304.1	548
108264506	c4h15orf48	XP_017321604.1	87
108264531	LOC108264531	XP_017321623.1	152
108265590	epgn	XP_017323600.1	153

108266135	LOC108266135	XP_017324656.1	268
108266359	LOC108266359	XP_017325014.1	332
108266750	tex30	XP_017325928.1	265
108266945	LOC108266945	XP_017326272.1	224
108267969	LOC108267969	XP_017328071.1	407
108268228	ssx2ip	XP_017328565.1	501
108268874	LOC108268874	XP_017329676.1	222
108268928	LOC108268928	XP_017329784.1	177
108269592	mtfr1l	XP_017331025.1	303
108270531	tmem44	XP_017332820.1	454
108270589	LOC108270589	XP_017332908.1	463
108271423	LOC108271423	XP_017334509.1	222
108272514	smdt1	XP_017336449.1	97
108273408	mrpl58	XP_017338087.1	198
108274023	c13h10orf128	XP_017339285.1	91
108274089	LOC108274089	XP_017339438.1	264
108274225	LOC108274225	XP_017339729.1	394
108274412	smim22	XP_017340039.1	81
108274670	LOC108274670	XP_017340388.1	112
108275545	haus8	XP_017341915.1	364
108278494	LOC108278494	XP_017347401.1	142
108279884	ccdc167	XP_017349960.1	100
108280886	LOC108280886	XP_017351869.1	171
108280991	LOC108280991	XP_017351996.1	222
108281088	LOC108281088	XP_017352141.1	130
804875	COX2	NP_612128.1	230
804876	ATP8	NP_612129.1	55
804879	ND5	NP_612135.1	607
804881	ND4L	NP_612133.1	98
804883	ND2	NP_612126.1	348
100304478	LOC100304478	NP_001187006.1	60
100305002	LOC100305002	NP_001187171.1	184
100415908	LOC100415908	NP_001187260.1	223
100528072	cf125	NP_001187271.1	129
100528215	emc4	NP_001187414.1	187
100528363	gins3	NP_001187562.1	211
100528404	rabif	NP_001187603.1	133
100528408	tesc	NP_001187607.1	123
100528430	anapc13	NP_001187629.1	74
100528515	vps28	NP_001187714.1	223
100528592	spcs1	NP_001187791.1	101
100528639	skp1	NP_001187838.1	163
100528677	pdcd5	NP_001187876.1	126
100528681	cops9	NP_001187880.1	57
100528704	mzt1	NP_001187903.1	75

100528768	lyrm5	NP_001187967.1	85
100528801	mrps14	NP_001188000.1	133
100528912	ndufb4	NP_001188111.1	127
100528986	znrd1	NP_001188185.1	133
108254720	LOC108254720	XP_017305459.1	209
108254755	arv1	XP_017305523.1	241
108255397	batf	XP_017306830.1	124
108255480	ascc2	XP_017306909.1	763
108255648	LOC108255648	XP_017307240.1	232
108255681	LOC108255681	XP_017307300.1	204
108256237	azi2	XP_017308361.1	353
108256239	cmc1	XP_017308367.1	107
108256594	LOC108256594	XP_017309125.1	83
108256728	LOC108256728	XP_017309381.1	157
108257072	LOC108257072	XP_017309972.1	267
108257184	cap2	XP_017310199.1	389
108257214	LOC108257214	XP_017310313.1	408
108257382	LOC108257382	XP_017310602.1	132
108257495	tomm7	XP_017310796.1	55
108258433	LOC108258433	XP_017312537.1	378
108258502	pld6	XP_017312671.1	243
108258651	LOC108258651	XP_017312925.1	186
108258791	cytl1	XP_017313201.1	192
108259146	agrp	XP_017313858.1	143
108259227	cklf	XP_017313985.1	143
108259252	LOC108259252	XP_017314032.1	210
108259526	LOC108259526	XP_017314593.1	249
108259529	fam207a	XP_017314596.1	237
108259534	LOC108259534	XP_017314606.1	211
108260421	LOC108260421	XP_017316197.1	151
108260508	LOC108260508	XP_017316354.1	170
108260511	slc9b2	XP_017316357.1	533
108261049	LOC108261049	XP_017317354.1	163
108261625	LOC108261625	XP_017317933.1	130
108262792	LOC108262792	XP_017318612.1	416
108262793	LOC108262793	XP_017318613.1	259
108263202	apopt1	XP_017319259.1	198
108263248	LOC108263248	XP_017319364.1	111
108263386	kmo	XP_017319604.1	473
108263832	LOC108263832	XP_017320489.1	112
108263890	LOC108263890	XP_017320565.1	108
108263973	LOC108263973	XP_017320709.1	410
108264385	kiaa0513	XP_017321347.1	421
108264547	nutf2	XP_017321659.1	127
108265078	LOC108265078	XP_017322663.1	263

108265287	stap2	XP_017322931.1	415
108265611	c5h9orf116	XP_017323639.1	141
108265844	LOC108265844	XP_017324081.1	209
108266094	LOC108266094	XP_017324579.1	243
108266430	LOC108266430	XP_017325223.1	258
108266545	LOC108266545	XP_017325499.1	218
108266662	dcaf17	XP_017325779.1	529
108266787	c6h21orf62	XP_017326002.1	214
108266789	LOC108266789	XP_017326011.1	132
108267124	c7h22orf39	XP_017326584.1	108
108267188	LOC108267188	XP_017326670.1	101
108267255	LOC108267255	XP_017326735.1	124
108267286	LOC108267286	XP_017326792.1	224
108267350	LOC108267350	XP_017326880.1	203
108267429	LOC108267429	XP_017326988.1	129
108267455	pex19	XP_017327016.1	282
108267567	LOC108267567	XP_017327250.1	124
108267962	c7h4orf48	XP_017328062.1	86
108268115	LOC108268115	XP_017328326.1	97
108268327	ltbr	XP_017328717.1	353
108268437	LOC108268437	XP_017328903.1	595
108268603	ndufc1	XP_017329138.1	69
108268660	LOC108268660	XP_017329227.1	363
108268687	LOC108268687	XP_017329271.1	241
108268882	tmsb15b	XP_017329693.1	46
108268918	LOC108268918	XP_017329751.1	115
108269344	LOC108269344	XP_017330655.1	78
108269355	LOC108269355	XP_017330676.1	204
108269361	c8h12orf73	XP_017330683.1	64
108269490	tmem229b	XP_017330904.1	185
108270120	LOC108270120	XP_017331955.1	127
108270394	crls1	XP_017332524.1	378
108270478	cfl2	XP_017332713.1	166
108270539	c1h16orf91	XP_017332839.1	155
108270745	LOC108270745	XP_017333119.1	925
108270746	LOC108270746	XP_017333120.1	921
108270874	timm13	XP_017333325.1	95
108271006	LOC108271006	XP_017333637.1	491
108271096	elp4	XP_017333857.1	389
108271220	serf2	XP_017334114.1	59
108271274	nr2c2ap	XP_017334228.1	141
108271425	tax1bp3	XP_017334514.1	125
108271519	snrpc	XP_017334632.1	159
108271554	LOC108271554	XP_017334684.1	223
108272082	LOC108272082	XP_017335732.1	75

108272167	LOC108272167	XP_017335903.1	76
108272348	cks1b	XP_017336199.1	79
108272510	ccdc134	XP_017336446.1	229
108272602	atp5e	XP_017336584.1	51
108272615	pex11b	XP_017336601.1	252
108272622	dctn3	XP_017336621.1	185
108272639	LOC108272639	XP_017336661.1	218
108272745	LOC108272745	XP_017336922.1	363
108272856	hn1	XP_017337160.1	139
108273013	LOC108273013	XP_017337460.1	239
108273081	LOC108273081	XP_017337557.1	173
108273140	LOC108273140	XP_017337676.1	158
108273612	LOC108273612	XP_017338452.1	127
108273994	tomm22	XP_017339229.1	133
108274251	LOC108274251	XP_017339791.1	425
108274303	nt5m	XP_017339890.1	230
108274403	c2h8orf82	XP_017340011.1	213
108274852	LOC108274852	XP_017340775.1	247
108274856	LOC108274856	XP_017340782.1	231
108274859	LOC108274859	XP_017340785.1	226
108274881	LOC108274881	XP_017340817.1	128
108275268	lrrc61	XP_017341463.1	281
108275426	LOC108275426	XP_017341728.1	129
108275551	LOC108275551	XP_017341922.1	326
108275692	LOC108275692	XP_017342101.1	432
108276169	cenpw	XP_017343137.1	75
108276560	lyrm7	XP_017343819.1	104
108276725	LOC108276725	XP_017344082.1	114
108276884	LOC108276884	XP_017344430.1	125
108276957	LOC108276957	XP_017344627.1	271
108276972	LOC108276972	XP_017344667.1	113
108277089	LOC108277089	XP_017344948.1	87
108277678	LOC108277678	XP_017345975.1	916
108277757	LOC108277757	XP_017346142.1	281
108278384	spcs2	XP_017347223.1	219
108278455	LOC108278455	XP_017347336.1	202
108278465	LOC108278465	XP_017347351.1	209
108278988	slc31a2	XP_017348330.1	138
108279232	c18h5orf15	XP_017348793.1	290
108279644	orc5	XP_017349462.1	445
108279850	LOC108279850	XP_017349874.1	222
108280490	LOC108280490	XP_017351002.1	55
108280668	mbp	XP_017351437.1	133
108280775	LOC108280775	XP_017351656.1	290
108280863	twsg1	XP_017351823.1	223

108280907	mrpl34	XP_017351897.1	115
804884	COX1	NP_612127.1	516
804887	CYTB	NP_612137.1	379
100304479	cga	NP_001187007.1	116
100304514	LOC100304514	NP_001187029.1	550
100304516	rplp1	NP_001187031.1	113
100304521	rpl6	XP_017323447.1	262
100304529	rpl13	NP_001187042.1	211
100304531	rpl14	NP_001187043.1	141
100304533	rpl18	NP_001187045.1	188
100304534	rpl18a	NP_001187046.1	176
100304543	rpl29	NP_001187054.1	64
100304549	LOC100304549	NP_001187060.1	106
100304550	rpl37	NP_001187061.1	97
100304551	rpl37a	NP_001187062.1	92
100304552	rpl38	NP_001187063.1	70
100304554	rpl41	NP_001187065.1	25
100304557	rps3	NP_001187068.1	245
100304558	rps4x	NP_001187069.1	263
100304561	rps7	NP_001187072.1	194
100304566	rps14	NP_001187077.1	151
100304569	LOC100304569	NP_001187080.1	134
100304579	rps29	NP_001187090.1	56
100304588	LOC100304588	XP_017326447.1	137
100304589	LOC100304589	NP_001187098.1	87
100304604	ifn	NP_001187107.1	162
100304621	LOC100304621	XP_017313766.1	173
100304622	gcg	NP_001187117.1	120
100304630	LOC100304630	XP_017330182.1	81
100304631	LOC100304631	XP_017326449.1	117
100304644	LOC100304644	NP_001187134.1	94
100304692	LOC100304692	NP_001187144.1	81
100304698	LOC100304698	XP_017350431.1	298
100304709	LOC100304709	NP_001232870.1	44
100304735	eif1b	NP_001232871.1	113
100304756	gss	XP_017342234.1	477
100304809	ddost	XP_017342350.1	466
100304934	ssscal	XP_017345580.1	257
100304967	LOC100304967	XP_017307935.1	269
100304977	LOC100304977	NP_001187154.1	520
100304978	LOC100304978	XP_017329493.1	471
100304979	LOC100304979	NP_001187156.1	412
100304990	cd59	NP_001187161.1	119
100304994	cd79a	NP_001187165.1	227
100305023	cd247	NP_001187191.1	153

100305027	sst2	XP_017351534.1	105
100305047	rpl10a	NP_001187211.1	216
100305053	rpl39	NP_001187217.1	51
100305055	rps11	NP_001187218.1	159
100305056	rps16	NP_001187219.1	149
100329224	LOC100329224	NP_001187244.1	108
100379165	il11	XP_017336316.1	221
100526711	nat9	XP_017339780.1	218
100526712	fam50a	XP_017343230.1	323
100528083	gstk1	XP_017340493.1	213
100528089	scnm1	XP_017342376.1	253
100528105	bbs5	NP_001187304.1	320
100528129	sc5d	NP_001187328.1	281
100528135	naa38	NP_001187334.1	103
100528157	pigf	NP_001187356.1	219
100528158	rdm1	NP_001187357.1	280
100528161	s39a9	NP_001187360.1	306
100528168	c5h9orf64	NP_001187367.1	339
100528172	wdr77	NP_001187371.1	322
100528176	hdhd3	XP_017334553.1	243
100528187	mtch2	NP_001187386.1	300
100528206	cmc4	NP_001187405.1	71
100528212	va0e1	NP_001187411.1	81
100528228	atox1	NP_001187427.1	67
100528240	ska2	XP_017343725.1	230
100528243	med20	NP_001187442.1	212
100528245	mrpl10	NP_001187444.1	255
100528253	EIF3K	NP_001187452.1	219
100528257	elp6	NP_001187456.1	268
100528262	fmc1	NP_001187461.1	110
100528272	rbx1	NP_001187471.1	108
100528301	mustn1	NP_001187500.1	78
100528302	ost4	NP_001187501.1	37
100528303	smim7	XP_017332752.1	104
100528337	trappc4	NP_001187536.1	219
100528343	ufm1	NP_001187542.1	90
100528355	lamtor5	NP_001187554.1	91
100528360	cwc15	NP_001187559.1	231
100528364	f162b	NP_001187563.1	155
100528378	wdr83os	NP_001187577.1	106
100528379	nhej1	NP_001187578.1	319
100528382	htatip2	NP_001187581.1	248
100528395	anfc1	XP_017318884.1	132
100528401	creld2	NP_001187600.1	289
100528407	c28hxor56	NP_001187606.1	224

100528414	rpe	XP_017324522.1	183
100528437	psmg4	NP_001187636.1	126
100528457	taf7l	XP_017328782.1	362
100528458	snrpd2	NP_001187657.1	118
100528459	ptpmt1	XP_017313779.1	185
100528467	col	NP_001187666.1	113
100528469	ndufaf4	NP_001187668.1	174
100528479	c24h1orf109	NP_001187678.1	202
100528497	tm14c	NP_001187696.1	107
100528498	tac1	XP_017336125.1	107
100528507	mrps24	NP_001187706.1	171
100528508	eapp	NP_001187707.1	310
100528513	polr2l	NP_001187712.1	67
100528516	polr2j	NP_001187715.1	117
100528517	mycbp	NP_001187716.1	103
100528518	cp080	NP_001187717.1	193
100528525	mnd1	NP_001187724.1	205
100528530	mrpl5l	NP_001187729.1	129
100528536	guc2a	NP_001187735.1	108
100528538	pop5	NP_001187737.1	167
100528548	cnot9	NP_001187747.1	297
100528550	pop7	NP_001187749.1	151
100528557	nop10	NP_001187756.1	64
100528558	pttg	NP_001187757.1	188
100528560	tmem258	NP_001187759.1	79
100528576	mrpl32	NP_001187775.1	175
100528578	med8	NP_001187777.1	266
100528590	mcrip2	NP_001187789.1	144
100528602	supt4h1	NP_001187801.1	117
100528603	smn1	NP_001187802.1	315
100528607	pmm2	NP_001187806.1	250
100528615	ndufa2	XP_017347290.1	100
100528619	zfand1	NP_001187818.1	270
100528620	med11	XP_017343742.1	140
100528627	tmem141	NP_001187826.1	128
100528632	rnf7	NP_001187831.1	111
100528641	ysmu	NP_001187840.1	268
100528642	cdc26	NP_001187841.1	86
100528646	sival	NP_001187845.1	173
100528647	snrpe	NP_001187846.1	92
100528653	hddc3	NP_001187852.1	179
100528660	hikeshi	NP_001187859.1	197
100528668	hsbp1	XP_017320578.1	76
100528675	oxnad1	NP_001187874.1	299
100528683	chchd7	XP_017326470.1	87

100528688	tango2	XP_017306670.1	274
100528690	meig1	XP_017349154.1	92
100528702	spaca9	XP_017306675.1	210
100528707	ccdc58	NP_001187906.1	143
100528715	taz	NP_001187914.1	262
100528719	apip	NP_001187918.1	240
100528724	pir	NP_001187923.1	291
100528728	pomp	NP_001187927.1	142
100528732	anapc11	NP_001187931.1	88
100528735	bola2	NP_001187934.1	86
100528747	pam16	NP_001187946.1	138
100528764	ndufs5	XP_017309438.1	106
100528771	rpa3	NP_001187970.1	122
100528777	ndufb2	NP_001187976.1	100
100528778	mrpl33	NP_001187977.1	65
100528790	c8h4orf47	NP_001187989.1	313
100528791	mcts1	XP_017328794.1	181
100528792	ndufa13	NP_001187991.1	144
100528793	cb064	NP_001187992.1	75
100528795	psmg3	NP_001187994.1	120
100528829	ntpcr	NP_001188028.1	197
100528831	aida	XP_017338596.1	303
100528850	hspb11	NP_001188049.1	133
100528856	pex3	NP_001188055.1	366
100528857	tmem82	NP_001188056.1	339
100528862	stpg1	XP_017340046.1	326
100528867	c18h11orf70	NP_001188066.1	236
100528870	nup35	NP_001188069.1	310
100528895	gtf2h5	XP_017310853.1	71
100528896	minos1	NP_001188095.1	76
100528925	wbscr22	NP_001188124.1	282
100528934	atpaf1	XP_017332765.1	286
100528948	tomm5	NP_001188147.1	51
100528956	c10h19orf25	XP_017332776.1	104
100528959	alg13	NP_001188158.1	164
100528971	lsm2	NP_001188170.1	95
100528981	ccdc124	NP_001188180.1	214
100528983	nosip	XP_017338737.1	258
100528988	crym	XP_017338059.1	337
100529003	gatad1	NP_001188202.1	244
100529008	rangrf	NP_001188207.1	182
100529009	sptssa	NP_001188208.1	68
100529011	aspdh	NP_001188210.1	278
100529014	cq072	XP_017338829.1	255
100529017	dap3	NP_001188216.1	401

100529027	ndufaf2	NP_001188226.1	161
100529048	glrx	NP_001188247.1	106
100529049	bcas2	XP_017322329.1	208
101154653	mxra8	XP_017343117.1	445
108254697	mfap2	XP_017305432.1	142
108254699	atad3a	XP_017305435.1	660
108254725	LOC108254725	XP_017305467.1	562
108254727	LOC108254727	XP_017305478.1	1040
108254774	LOC108254774	XP_017305564.1	196
108254791	LOC108254791	XP_017305600.1	89
108254805	tmem167b	XP_017305612.1	74
108254814	LOC108254814	XP_017305638.1	123
108254893	ift52	XP_017305820.1	436
108254896	LOC108254896	XP_017305824.1	207
108254934	chchd4	XP_017305921.1	151
108254936	c21h1orf50	XP_017305925.1	189
108254962	LOC108254962	XP_017305995.1	284
108254989	fam213b	XP_017306033.1	176
108254990	LOC108254990	XP_017306034.1	125
108254996	LOC108254996	XP_017306041.1	146
108255031	ghrh	XP_017306121.1	163
108255055	LOC108255055	XP_017306185.1	1006
108255058	shisa5	XP_017306191.1	237
108255082	rpp14	XP_017306230.1	170
108255096	traip	XP_017306253.1	455
108255119	svbp	XP_017306296.1	66
108255122	LOC108255122	XP_017306301.1	203
108255135	c21h6orf89	XP_017306337.1	282
108255139	LOC108255139	XP_017306343.1	169
108255147	ccdc51	XP_017306352.1	416
108255149	tma7	XP_017306355.1	64
108255216	timm17a	XP_017306477.1	166
108255220	LOC108255220	XP_017306486.1	714
108255228	LOC108255228	XP_017306532.1	147
108255235	LOC108255235	XP_017306540.1	369
108255243	coil	XP_017306556.1	659
108255267	LOC108255267	XP_017306591.1	310
108255287	c21h1orf116	XP_017306640.1	390
108255299	pdrg1	XP_017306661.1	132
108255335	zc3h14	XP_017306735.1	657
108255369	LOC108255369	XP_017306787.1	349
108255377	LOC108255377	XP_017306803.1	299
108255378	LOC108255378	XP_017306805.1	295
108255387	LOC108255387	XP_017306816.1	175
108255407	lrrc43	XP_017306835.1	582

108255432	mvk	XP_017306861.1	399
108255462	LOC108255462	XP_017306888.1	90
108255481	LOC108255481	XP_017306911.1	81
108255492	arsk	XP_017306939.1	449
108255512	sdf211	XP_017306997.1	167
108255545	gtf2h2c	XP_017307048.1	274
108255569	ccdc125	XP_017307116.1	471
108255592	gatc	XP_017307164.1	215
108255639	stpg2	XP_017307223.1	555
108255757	LOC108255757	XP_017307436.1	172
108255767	ccdc180	XP_017307454.1	1461
108255780	LOC108255780	XP_017307475.1	103
108255781	LOC108255781	XP_017307476.1	101
108255808	arl6ip4	XP_017307546.1	253
108255874	c22h2orf81	XP_017307686.1	220
108255880	emb	XP_017307704.1	279
108255899	c22h9orf135	XP_017307738.1	189
108255906	psmd9	XP_017307757.1	213
108255927	naaa	XP_017307788.1	365
108255932	c22h12orf49	XP_017307797.1	199
108255941	ccdc60	XP_017307816.1	561
108255954	LOC108255954	XP_017307846.1	186
108255955	acad10	XP_017307848.1	586
108256047	tmem116	XP_017308025.1	358
108256051	ndufs4	XP_017308033.1	208
108256053	coq5	XP_017308036.1	326
108256075	sra1	XP_017308081.1	230
108256082	cmtm7	XP_017308109.1	165
108256097	commd3	XP_017308136.1	195
108256100	LOC108256100	XP_017308140.1	122
108256113	evc	XP_017308177.1	823
108256129	LOC108256129	XP_017308183.1	305
108256135	LOC108256135	XP_017308191.1	157
108256187	LOC108256187	XP_017308278.1	252
108256193	bola1	XP_017308293.1	150
108256195	apoa2	XP_017308295.1	133
108256218	eef1e1	XP_017308336.1	173
108256258	LOC108256258	XP_017308395.1	322
108256264	gpatch3	XP_017308407.1	514
108256291	ubxn11	XP_017308456.1	472
108256306	LOC108256306	XP_017308488.1	162
108256311	LOC108256311	XP_017308506.1	199
108256382	LOC108256382	XP_017308673.1	214
108256418	LOC108256418	XP_017308760.1	249
108256435	zc2hc1a	XP_017308798.1	296

108256447	yae1d1	XP_017308830.1	221
108256495	mcmdc2	XP_017308914.1	673
108256572	LOC108256572	XP_017309088.1	206
108256623	ropn1l	XP_017309172.1	215
108256628	dap	XP_017309178.1	106
108256635	otos	XP_017309188.1	90
108256676	acot9	XP_017309270.1	419
108256685	LOC108256685	XP_017309298.1	217
108256722	hmgn2	XP_017309368.1	77
108256723	LOC108256723	XP_017309370.1	372
108256762	shfm1	XP_017309457.1	70
108256765	LOC108256765	XP_017309460.1	209
108256780	mgmt	XP_017309478.1	181
108256787	mrpl53	XP_017309490.1	107
108256811	LOC108256811	XP_017309524.1	159
108256834	LOC108256834	XP_017309546.1	188
108256835	LOC108256835	XP_017309547.1	188
108256837	LOC108256837	XP_017309549.1	172
108256863	LOC108256863	XP_017309575.1	225
108256890	mrpl12	XP_017309630.1	194
108256894	vwa3a	XP_017309634.1	1145
108256922	snrpd1	XP_017309693.1	119
108256952	LOC108256952	XP_017309753.1	211
108256955	nkain1	XP_017309760.1	212
108256969	syce1	XP_017309777.1	205
108256972	LOC108256972	XP_017309794.1	152
108256989	lyrm2	XP_017309831.1	88
108257029	cap1	XP_017309902.1	469
108257046	LOC108257046	XP_017309935.1	428
108257066	LOC108257066	XP_017309962.1	193
108257098	rmi2	XP_017310004.1	146
108257119	pet100	XP_017310061.1	78
108257163	batf3	XP_017310155.1	113
108257166	pithd1	XP_017310168.1	210
108257169	wdyhv1	XP_017310173.1	188
108257170	LOC108257170	XP_017310176.1	83
108257185	aunip	XP_017310200.1	413
108257189	LOC108257189	XP_017310214.1	593
108257244	snx8	XP_017310333.1	520
108257259	LOC108257259	XP_017310371.1	217
108257301	mrpl9	XP_017310438.1	247
108257309	polr2k	XP_017310458.1	63
108257344	LOC108257344	XP_017310513.1	219
108257350	rbm48	XP_017310525.1	367
108257358	gfer	XP_017310540.1	179

108257365	LOC108257365	XP_017310553.1	478
108257386	bud31	XP_017310608.1	144
108257403	LOC108257403	XP_017310634.1	126
108257415	jtb	XP_017310659.1	150
108257427	LOC108257427	XP_017310671.1	73
108257430	LOC108257430	XP_017310678.1	339
108257509	spaca6	XP_017311013.1	310
108257527	LOC108257527	XP_017310880.1	285
108257534	LOC108257534	XP_017310886.1	181
108257571	nkain2	XP_017310941.1	206
108257612	LOC108257612	XP_017311006.1	218
108257636	LOC108257636	XP_017311042.1	257
108257650	c25h2orf70	XP_017311055.1	159
108257670	LOC108257670	XP_017311089.1	687
108257682	cgrf1	XP_017311107.1	249
108257760	LOC108257760	XP_017311258.1	720
108257781	fgfr1op	XP_017311303.1	468
108257807	LOC108257807	XP_017311356.1	247
108257816	psk9	XP_017311375.1	667
108257832	LOC108257832	XP_017311393.1	109
108257834	LOC108257834	XP_017311397.1	79
108257842	LOC108257842	XP_017311419.1	202
108257849	c25h14orf2	XP_017311428.1	54
108257867	tmem244	XP_017311461.1	174
108257882	pln	XP_017311492.1	52
108257908	aasdh	XP_017311543.1	1157
108257921	nmu	XP_017311564.1	156
108257923	lexm	XP_017311566.1	337
108257959	LOC108257959	XP_017311629.1	666
108257970	aven	XP_017311646.1	342
108257986	LOC108257986	XP_017311678.1	92
108257996	ttc32	XP_017311695.1	189
108258021	LOC108258021	XP_017311744.1	146
108258054	cebzos	XP_017311809.1	129
108258098	dnaaf5	XP_017311966.1	834
108258106	pfas	XP_017311977.1	1317
108258115	LOC108258115	XP_017312002.1	242
108258116	saysd1	XP_017311999.1	164
108258128	c25h12orf57	XP_017312026.1	122
108258156	LOC108258156	XP_017312095.1	296
108258157	katnbl1	XP_017312100.1	246
108258242	thegl	XP_017312264.1	240
108258312	cenpk	XP_017312347.1	272
108258329	cyyr1	XP_017312374.1	157
108258353	fastkd2	XP_017312413.1	641

108258406	brat1	XP_017312506.1	560
108258418	mycbpap	XP_017312516.1	836
108258440	LOC108258440	XP_017312563.1	444
108258448	knop1	XP_017312582.1	370
108258451	LOC108258451	XP_017312586.1	366
108258468	ndufb7	XP_017312617.1	121
108258469	c26h19orf53	XP_017312618.1	102
108258509	spp2	XP_017312686.1	187
108258514	smim13	XP_017312693.1	88
108258548	LOC108258548	XP_017312736.1	205
108258585	nthl1	XP_017312785.1	486
108258597	tmco3	XP_017312805.1	672
108258632	LOC108258632	XP_017312886.1	658
108258635	pcnp	XP_017312889.1	157
108258639	LOC108258639	XP_017312898.1	365
108258647	LOC108258647	XP_017312912.1	190
108258669	ndufab1	XP_017312958.1	153
108258673	pibf1	XP_017312962.1	666
108258685	LOC108258685	XP_017312976.1	293
108258694	sugt1	XP_017312997.1	325
108258709	LOC108258709	XP_017313029.1	105
108258723	b3gntl1	XP_017313051.1	558
108258728	gtf3c1	XP_017313057.1	2027
108258771	thumpd1	XP_017313161.1	415
108258818	LOC108258818	XP_017313252.1	167
108258880	LOC108258880	XP_017313343.1	124
108258903	LOC108258903	XP_017313388.1	536
108258907	LOC108258907	XP_017313395.1	1377
108258909	c26hxorf38	XP_017313402.1	310
108258993	tmsb4x	XP_017313580.1	43
108259008	ubac2	XP_017313601.1	342
108259068	rnf175	XP_017313702.1	301
108259078	c26h1orf100	XP_017313733.1	137
108259079	obfc1	XP_017313738.1	316
108259081	LOC108259081	XP_017313745.1	330
108259085	LOC108259085	XP_017313746.1	236
108259140	LOC108259140	XP_017313853.1	463
108259167	LOC108259167	XP_017313919.1	208
108259176	LOC108259176	XP_017313895.1	702
108259225	bean1	XP_017313982.1	197
108259236	cnep1r1	XP_017314006.1	125
108259247	LOC108259247	XP_017314025.1	272
108259250	LOC108259250	XP_017314030.1	227
108259251	LOC108259251	XP_017314031.1	218
108259274	LOC108259274	XP_017314085.1	252

108259323	mcee	XP_017314193.1	175
108259366	hypk	XP_017314279.1	127
108259434	LOC108259434	XP_017314441.1	312
108259442	tmem186	XP_017314451.1	224
108259472	muc15	XP_017314477.1	347
108259531	LOC108259531	XP_017314609.1	266
108259535	LOC108259535	XP_017314608.1	195
108259542	LOC108259542	XP_017314619.1	131
108259605	LOC108259605	XP_017314715.1	231
108259607	LOC108259607	XP_017314717.1	199
108259617	LOC108259617	XP_017314735.1	190
108259684	fam96b	XP_017314833.1	159
108259693	cdca5	XP_017314865.1	262
108259696	pigw	XP_017314873.1	491
108259741	LOC108259741	XP_017314949.1	370
108259751	spag8	XP_017314967.1	189
108259753	LOC108259753	XP_017314969.1	224
108259760	LOC108259760	XP_017314975.1	121
108259773	lrwd1	XP_017314987.1	806
108259817	igbp1	XP_017315025.1	349
108259819	fam76b	XP_017315027.1	312
108259820	LOC108259820	XP_017315029.1	290
108259838	las1l	XP_017315044.1	573
108259872	cenpv	XP_017315124.1	154
108259903	LOC108259903	XP_017315187.1	355
108259909	vma21	XP_017315195.1	104
108259925	LOC108259925	XP_017315227.1	747
108259938	LOC108259938	XP_017315250.1	154
108259939	LOC108259939	XP_017315251.1	80
108259940	LOC108259940	XP_017315252.1	78
108259966	c28h11orf1	XP_017315314.1	168
108259982	znf653	XP_017315381.1	544
108259990	LOC108259990	XP_017315359.1	175
108259991	LOC108259991	XP_017315363.1	177
108259992	LOC108259992	XP_017315364.1	78
108260003	alkbh6	XP_017315390.1	234
108260037	LOC108260037	XP_017315450.1	95
108260049	ssna1	XP_017315475.1	118
108260077	LOC108260077	XP_017315523.1	143
108260082	surf4	XP_017315527.1	269
108260085	tmem248	XP_017315532.1	315
108260112	LOC108260112	XP_017315588.1	335
108260130	LOC108260130	XP_017315692.1	323
108260135	kiaa0141	XP_017315665.1	485
108260174	LOC108260174	XP_017315736.1	289

108260178	LOC108260178	XP_017315741.1	258
108260186	spag7	XP_017315755.1	228
108260191	LOC108260191	XP_017315768.1	203
108260199	LOC108260199	XP_017315780.1	170
108260225	alkbh7	XP_017315802.1	250
108260245	LOC108260245	XP_017315837.1	139
108260247	LOC108260247	XP_017315882.1	104
108260262	hsf5	XP_017315870.1	349
108260266	ptcd2	XP_017315880.1	383
108260267	ttc33	XP_017315884.1	262
108260287	LOC108260287	XP_017315918.1	59
108260299	prkrip1	XP_017315949.1	189
108260306	LOC108260306	XP_017315966.1	307
108260307	LOC108260307	XP_017316009.1	957
108260360	aif11	XP_017316091.1	148
108260394	rogdi	XP_017316154.1	300
108260397	LOC108260397	XP_017316153.1	169
108260453	dpm2	XP_017316255.1	83
108260455	ccdc15	XP_017316258.1	483
108260475	tsen54	XP_017316300.1	496
108260515	LOC108260515	XP_017316370.1	291
108260518	LOC108260518	XP_017316374.1	322
108260523	LOC108260523	XP_017316399.1	238
108260524	LOC108260524	XP_017316400.1	238
108260525	LOC108260525	XP_017316401.1	226
108260529	LOC108260529	XP_017316404.1	97
108260543	LOC108260543	XP_017316415.1	270
108260555	smim18	XP_017316430.1	126
108260576	LOC108260576	XP_017316449.1	559
108260589	LOC108260589	XP_017316464.1	645
108260594	LOC108260594	XP_017316473.1	276
108260595	LOC108260595	XP_017316476.1	295
108260596	LOC108260596	XP_017316480.1	237
108260598	LOC108260598	XP_017316485.1	873
108260607	LOC108260607	XP_017316512.1	511
108260672	LOC108260672	XP_017316597.1	224
108260679	LOC108260679	XP_017316606.1	91
108260684	gne	XP_017316613.1	737
108260685	LOC108260685	XP_017316616.1	674
108260695	c29h4orf33	XP_017316633.1	197
108260699	LOC108260699	XP_017316636.1	218
108260701	LOC108260701	XP_017316639.1	224
108260722	smim14	XP_017316683.1	103
108260727	LOC108260727	XP_017316700.1	170
108260731	c2h1orf131	XP_017316709.1	255

108260732	clhc1	XP_017316708.1	587
108260777	asah1	XP_017316818.1	393
108260828	memo1	XP_017316937.1	295
108260846	cfap97	XP_017316982.1	489
108260849	ociad1	XP_017316987.1	231
108260857	LOC108260857	XP_017316995.1	232
108260867	LOC108260867	XP_017317017.1	105
108260901	LOC108260901	XP_017317095.1	275
108260909	apela	XP_017317109.1	54
108260910	LOC108260910	XP_017317113.1	169
108260935	LOC108260935	XP_017317156.1	120
108260956	cfap36	XP_017317193.1	364
108260961	natd1	XP_017317205.1	110
108261080	fbxo47	XP_017317430.1	228
108261105	LOC108261105	XP_017317475.1	160
108261133	cops8	XP_017317496.1	191
108261138	LOC108261138	XP_017317508.1	361
108261139	LOC108261139	XP_017317509.1	328
108261140	LOC108261140	XP_017317512.1	321
108261202	LOC108261202	XP_017317572.1	99
108261206	LOC108261206	XP_017317588.1	205
108261220	LOC108261220	XP_017317634.1	192
108261238	LOC108261238	XP_017317619.1	274
108261275	LOC108261275	XP_017317672.1	119
108261285	LOC108261285	XP_017317680.1	240
108261332	LOC108261332	XP_017317728.1	122
108261389	LOC108261389	XP_017317773.1	287
108261405	LOC108261405	XP_017317784.1	285
108261432	LOC108261432	XP_017317816.1	219
108261485	LOC108261485	XP_017317843.1	226
108261486	LOC108261486	XP_017317845.1	203
108261511	LOC108261511	XP_017317859.1	83
108261543	LOC108261543	XP_017317882.1	323
108261591	LOC108261591	XP_017317914.1	307
108261642	LOC108261642	XP_017317951.1	101
108261655	LOC108261655	XP_017317962.1	180
108261657	LOC108261657	XP_017317963.1	209
108261661	LOC108261661	XP_017317972.1	271
108261695	LOC108261695	XP_017317996.1	219
108261706	LOC108261706	XP_017318007.1	296
108261723	LOC108261723	XP_017318019.1	95
108261749	LOC108261749	XP_017318040.1	226
108261754	c1h8orf88	XP_017318099.1	125
108261769	LOC108261769	XP_017318052.1	446
108261801	LOC108261801	XP_017318066.1	178

108261817	LOC108261817	XP_017318072.1	161
108261820	LOC108261820	XP_017318074.1	231
108261826	LOC108261826	XP_017318078.1	122
108261863	LOC108261863	XP_017318117.1	137
108262000	LOC108262000	XP_017318188.1	241
108262034	LOC108262034	XP_017318209.1	169
108262041	LOC108262041	XP_017318214.1	151
108262248	LOC108262248	XP_017318307.1	462
108262276	LOC108262276	XP_017318316.1	91
108262318	LOC108262318	XP_017318337.1	172
108262356	LOC108262356	XP_017318352.1	255
108262380	LOC108262380	XP_017318362.1	96
108262473	LOC108262473	XP_017318405.1	252
108262561	LOC108262561	XP_017318440.1	211
108262581	lect2	XP_017318445.1	158
108262582	LOC108262582	XP_017318447.1	124
108262588	LOC108262588	XP_017318449.1	262
108262600	LOC108262600	XP_017318457.1	288
108262645	LOC108262645	XP_017318476.1	284
108262656	LOC108262656	XP_017318482.1	85
108262726	LOC108262726	XP_017318516.1	294
108262746	LOC108262746	XP_017318532.1	147
108262768	LOC108262768	XP_017318560.1	1409
108262770	LOC108262770	XP_017318578.1	257
108262779	LOC108262779	XP_017318597.1	633
108262785	LOC108262785	XP_017318604.1	474
108262798	LOC108262798	XP_017318627.1	189
108262802	LOC108262802	XP_017318633.1	201
108262803	LOC108262803	XP_017318634.1	161
108262805	pold4	XP_017318636.1	112
108262869	tmem72	XP_017318714.1	207
108262878	LOC108262878	XP_017318722.1	574
108262883	LOC108262883	XP_017318726.1	223
108262889	LOC108262889	XP_017318731.1	136
108262892	LOC108262892	XP_017318734.1	317
108262894	sprn	XP_017318735.1	137
108262926	LOC108262926	XP_017318764.1	413
108262965	LOC108262965	XP_017318815.1	264
108262977	LOC108262977	XP_017318821.1	158
108262984	nusap1	XP_017318830.1	446
108263026	LOC108263026	XP_017318894.1	137
108263033	c3h6orf118	XP_017318923.1	387
108263058	LOC108263058	XP_017318968.1	196
108263074	LOC108263074	XP_017319005.1	125
108263086	trmt5	XP_017319020.1	491

108263118	LOC108263118	XP_017319089.1	195
108263125	LOC108263125	XP_017319105.1	132
108263132	tmem14a	XP_017319114.1	99
108263138	LOC108263138	XP_017319123.1	127
108263158	c3h7orf72	XP_017319166.1	382
108263195	LOC108263195	XP_017319244.1	253
108263201	LOC108263201	XP_017319263.1	110
108263212	rsrp1	XP_017319281.1	319
108263232	LOC108263232	XP_017319341.1	106
108263240	mavs	XP_017319351.1	703
108263281	atp5s	XP_017319424.1	174
108263348	spef1	XP_017319533.1	232
108263353	sdhaf4	XP_017319548.1	111
108263360	tmem134	XP_017319560.1	206
108263364	supv3l1	XP_017319565.1	764
108263367	LOC108263367	XP_017319588.1	297
108263388	LOC108263388	XP_017319609.1	287
108263411	b3galnt2	XP_017319649.1	375
108263412	cacul1	XP_017319651.1	315
108263423	pyroxd2	XP_017319674.1	613
108263433	commd8	XP_017319691.1	198
108263516	zcchc24	XP_017319887.1	238
108263520	malsu1	XP_017319894.1	237
108263525	LOC108263525	XP_017319907.1	152
108263584	ap5s1	XP_017320039.1	202
108263629	spcs3	XP_017320140.1	180
108263633	LOC108263633	XP_017320151.1	145
108263697	LOC108263697	XP_017320238.1	253
108263725	urb2	XP_017320285.1	1522
108263733	srgn	XP_017320300.1	148
108263754	LOC108263754	XP_017320354.1	91
108263759	tmem254	XP_017320362.1	124
108263773	spag5	XP_017320395.1	1673
108263776	uso1	XP_017320401.1	963
108263827	LOC108263827	XP_017320482.1	605
108263836	LOC108263836	XP_017320500.1	200
108263844	pus3	XP_017320531.1	403
108263892	LOC108263892	XP_017320595.1	66
108263893	il34	XP_017320597.1	211
108263954	LOC108263954	XP_017320675.1	213
108263963	LOC108263963	XP_017320691.1	269
108263999	LOC108263999	XP_017320756.1	237
108264008	treh	XP_017320782.1	494
108264013	LOC108264013	XP_017320798.1	414
108264015	LOC108264015	XP_017320801.1	314

108264030	LOC108264030	XP_017320810.1	807
108264043	LOC108264043	XP_017320838.1	124
108264051	LOC108264051	XP_017320847.1	701
108264064	lrriq1	XP_017320859.1	1667
108264074	LOC108264074	XP_017320867.1	246
108264080	LOC108264080	XP_017320872.1	309
108264144	c4h15orf65	XP_017320937.1	126
108264161	bbs10	XP_017320968.1	594
108264169	LOC108264169	XP_017320982.1	357
108264185	LOC108264185	XP_017321006.1	229
108264190	ndufa3	XP_017321015.1	123
108264194	LOC108264194	XP_017321016.1	138
108264211	LOC108264211	XP_017321034.1	144
108264219	nts	XP_017321039.1	157
108264233	LOC108264233	XP_017321056.1	118
108264237	cenpn	XP_017321062.1	313
108264238	cmc2	XP_017321063.1	78
108264245	gins2	XP_017321080.1	186
108264257	LOC108264257	XP_017321092.1	151
108264300	LOC108264300	XP_017321199.1	199
108264329	LOC108264329	XP_017321260.1	195
108264395	pex16	XP_017321360.1	339
108264412	cetp	XP_017321397.1	496
108264425	clsrp	XP_017321415.1	637
108264437	pigb	XP_017321446.1	531
108264448	tsr3	XP_017321483.1	298
108264460	c4h15orf61	XP_017321502.1	156
108264496	dtwd1	XP_017321582.1	324
108264498	LOC108264498	XP_017321589.1	212
108264501	LOC108264501	XP_017321593.1	202
108264504	bloc1s6	XP_017321601.1	163
108264507	fam103a1	XP_017321606.1	82
108264508	cdc42se2	XP_017321607.1	75
108264532	LOC108264532	XP_017321624.1	112
108264533	LOC108264533	XP_017321625.1	112
108264555	LOC108264555	XP_017321671.1	101
108264585	LOC108264585	XP_017321723.1	186
108264601	bcl2l13	XP_017321774.1	603
108264602	LOC108264602	XP_017321778.1	199
108264645	reln	XP_017321864.1	3479
108264646	LOC108264646	XP_017321865.1	204
108264685	LOC108264685	XP_017321935.1	148
108264699	LOC108264699	XP_017321948.1	348
108264700	LOC108264700	XP_017321955.1	188
108264701	LOC108264701	XP_017321956.1	278

108264702	LOC108264702	XP_017321957.1	251
108264703	LOC108264703	XP_017321959.1	203
108264781	trabd	XP_017322130.1	359
108264797	LOC108264797	XP_017322159.1	1448
108264813	siae	XP_017322201.1	538
108264830	LOC108264830	XP_017322227.1	171
108264832	LOC108264832	XP_017322230.1	183
108264899	anapc5	XP_017322365.1	762
108264909	tmem241	XP_017322401.1	271
108264910	hps4	XP_017322388.1	532
108264913	LOC108264913	XP_017322399.1	424
108264926	c5h12orf43	XP_017322424.1	242
108264931	LOC108264931	XP_017322428.1	225
108264934	LOC108264934	XP_017322432.1	219
108264941	LOC108264941	XP_017322439.1	109
108265008	LOC108265008	XP_017322550.1	280
108265034	nppa	XP_017322593.1	131
108265041	exosc10	XP_017322612.1	900
108265067	LOC108265067	XP_017322645.1	251
108265075	c5h6orf226	XP_017322659.1	147
108265095	LOC108265095	XP_017322697.1	324
108265099	LOC108265099	XP_017322700.1	301
108265117	izumo1	XP_017322730.1	376
108265131	lrriq3	XP_017322753.1	595
108265146	oxct1	XP_017322772.1	509
108265149	LOC108265149	XP_017322774.1	234
108265200	c5h1orf228	XP_017322816.1	358
108265226	LOC108265226	XP_017322837.1	236
108265261	LOC108265261	XP_017322890.1	186
108265300	LOC108265300	XP_017322961.1	726
108265304	gins4	XP_017322969.1	225
108265306	LOC108265306	XP_017322993.1	625
108265323	sap30bp	XP_017323003.1	304
108265342	LOC108265342	XP_017323047.1	482
108265350	LOC108265350	XP_017323076.1	472
108265359	LOC108265359	XP_017323096.1	459
108265372	mrps36	XP_017323112.1	180
108265397	chmp7	XP_017323157.1	443
108265418	lrif1	XP_017323192.1	917
108265449	stkld1	XP_017323263.1	523
108265464	ndufb11	XP_017323294.1	149
108265476	renbp	XP_017323315.1	402
108265477	LOC108265477	XP_017323320.1	185
108265490	apoc1	XP_017323353.1	87
108265518	gucd1	XP_017323413.1	226

108265560	LOC108265560	XP_017323532.1	183
108265563	prok1	XP_017323540.1	105
108265568	LOC108265568	XP_017323546.1	255
108265571	pold2	XP_017323551.1	467
108265585	LOC108265585	XP_017323593.1	423
108265586	LOC108265586	XP_017323595.1	379
108265588	c5h5orf51	XP_017323597.1	279
108265593	tmco1	XP_017323609.1	188
108265624	LOC108265624	XP_017323664.1	107
108265640	LOC108265640	XP_017323682.1	130
108265669	timml7b	XP_017323731.1	172
108265681	LOC108265681	XP_017323753.1	212
108265734	gnrh1	XP_017323861.1	104
108265776	tmem252	XP_017323950.1	178
108265832	LOC108265832	XP_017324062.1	286
108265860	LOC108265860	XP_017324133.1	189
108265906	fance	XP_017324237.1	509
108265952	LOC108265952	XP_017324329.1	77
108265953	LOC108265953	XP_017324330.1	247
108265975	gkap1	XP_017324369.1	347
108265979	LOC108265979	XP_017324377.1	531
108265986	LOC108265986	XP_017324386.1	197
108266019	dmap1	XP_017324444.1	463
108266026	LOC108266026	XP_017324497.1	158
108266038	LOC108266038	XP_017324473.1	424
108266044	ocstamp	XP_017324487.1	575
108266124	LOC108266124	XP_017324636.1	281
108266151	ndp	XP_017324677.1	138
108266154	LOC108266154	XP_017324681.1	206
108266253	LOC108266253	XP_017324831.1	253
108266266	ccdc89	XP_017324846.1	354
108266275	LOC108266275	XP_017324848.1	201
108266276	LOC108266276	XP_017324851.1	180
108266320	LOC108266320	XP_017324920.1	166
108266442	LOC108266442	XP_017325283.1	717
108266448	LOC108266448	XP_017325267.1	235
108266464	LOC108266464	XP_017325306.1	203
108266484	LOC108266484	XP_017325361.1	675
108266515	LOC108266515	XP_017325429.1	125
108266526	gtdc1	XP_017325449.1	409
108266537	LOC108266537	XP_017325475.1	63
108266547	LOC108266547	XP_017325506.1	123
108266550	LOC108266550	XP_017325508.1	245
108266569	LOC108266569	XP_017325546.1	511
108266593	dnajc15	XP_017325615.1	150

108266691	cmssl	XP_017325829.1	290
108266707	LOC108266707	XP_017325857.1	222
108266719	LOC108266719	XP_017325873.1	245
108266728	serp2	XP_017325886.1	65
108266731	LOC108266731	XP_017325891.1	108
108266781	il11	XP_017325999.1	195
108266784	cd302	XP_017326000.1	247
108266918	nms	XP_017326239.1	138
108266939	LOC108266939	XP_017326266.1	236
108266940	LOC108266940	XP_017326267.1	311
108266946	LOC108266946	XP_017326274.1	207
108267013	lmln	XP_017326374.1	655
108267040	LOC108267040	XP_017326417.1	323
108267042	LOC108267042	XP_017326422.1	192
108267095	LOC108267095	XP_017326553.1	214
108267131	LOC108267131	XP_017326595.1	91
108267133	LOC108267133	XP_017326596.1	90
108267154	LOC108267154	XP_017326631.1	341
108267168	LOC108267168	XP_017326645.1	331
108267181	LOC108267181	XP_017326661.1	95
108267189	LOC108267189	XP_017326671.1	239
108267198	LOC108267198	XP_017326688.1	391
108267209	LOC108267209	XP_017326702.1	366
108267224	LOC108267224	XP_017326707.1	223
108267263	LOC108267263	XP_017326742.1	195
108267271	LOC108267271	XP_017326753.1	371
108267281	LOC108267281	XP_017326782.1	323
108267283	LOC108267283	XP_017326784.1	272
108267285	LOC108267285	XP_017326787.1	263
108267289	LOC108267289	XP_017326797.1	264
108267346	LOC108267346	XP_017326878.1	242
108267376	LOC108267376	XP_017326900.1	85
108267378	LOC108267378	XP_017326897.1	353
108267379	LOC108267379	XP_017326898.1	351
108267380	LOC108267380	XP_017326899.1	310
108267390	ccdc24	XP_017326907.1	400
108267398	LOC108267398	XP_017326926.1	502
108267413	LOC108267413	XP_017326948.1	351
108267415	fam159a	XP_017326949.1	158
108267416	tmem88	XP_017326950.1	218
108267444	sec62	XP_017326999.1	393
108267488	LOC108267488	XP_017327074.1	165
108267509	mettl17	XP_017327107.1	459
108267516	LOC108267516	XP_017327122.1	2010
108267528	LOC108267528	XP_017327165.1	169

108267537	majin	XP_017327173.1	253
108267540	batf2	XP_017327178.1	165
108267541	gpha2	XP_017327179.1	135
108267547	aadat	XP_017327204.1	342
108267564	LOC108267564	XP_017327248.1	207
108267588	zzz3	XP_017327315.1	872
108267619	c7h1orf123	XP_017327359.1	160
108267658	serp1	XP_017327437.1	65
108267692	LOC108267692	XP_017327515.1	168
108267693	rwdd4	XP_017327521.1	186
108267714	LOC108267714	XP_017327548.1	124
108267721	LOC108267721	XP_017327558.1	189
108267727	tkfc	XP_017327575.1	616
108267746	LOC108267746	XP_017327616.1	101
108267766	snapc2	XP_017327666.1	409
108267767	LOC108267767	XP_017327667.1	321
108267771	LOC108267771	XP_017327675.1	293
108267833	LOC108267833	XP_017327773.1	189
108267856	no17	XP_017327813.1	211
108267873	elp5	XP_017327847.1	297
108267897	LOC108267897	XP_017327885.1	257
108267901	smim20	XP_017327891.1	68
108267947	LOC108267947	XP_017328036.1	285
108267949	LOC108267949	XP_017328039.1	1316
108267960	poln	XP_017328059.1	1192
108267971	rgp1	XP_017328073.1	386
108267988	LOC108267988	XP_017328099.1	91
108268026	LOC108268026	XP_017328153.1	240
108268037	naa40	XP_017328168.1	238
108268044	wrnip1	XP_017328193.1	511
108268072	mettl12	XP_017328248.1	215
108268101	LOC108268101	XP_017328293.1	413
108268114	LOC108268114	XP_017328323.1	99
108268196	mblac1	XP_017328500.1	218
108268244	LOC108268244	XP_017328602.1	584
108268283	LOC108268283	XP_017328636.1	309
108268284	LOC108268284	XP_017328639.1	249
108268302	LOC108268302	XP_017328674.1	95
108268303	LOC108268303	XP_017328676.1	101
108268304	LOC108268304	XP_017328678.1	95
108268310	LOC108268310	XP_017328690.1	526
108268323	LOC108268323	XP_017328708.1	213
108268332	cd27	XP_017328761.1	235
108268342	haus6	XP_017328742.1	792
108268344	kiaa0040	XP_017328749.1	111

108268384	emg1	XP_017328774.1	238
108268388	cenpi	XP_017328814.1	721
108268409	pyurf	XP_017328852.1	111
108268412	m6pr	XP_017328869.1	268
108268432	fam185a	XP_017328889.1	366
108268441	LOC108268441	XP_017328911.1	1057
108268449	LOC108268449	XP_017328925.1	188
108268450	LOC108268450	XP_017328929.1	181
108268454	LOC108268454	XP_017328933.1	99
108268456	ecm1	XP_017328944.1	669
108268463	LOC108268463	XP_017328953.1	349
108268479	LOC108268479	XP_017328988.1	335
108268486	syce3	XP_017328995.1	94
108268490	LOC108268490	XP_017328999.1	424
108268498	LOC108268498	XP_017329011.1	271
108268500	LOC108268500	XP_017329013.1	197
108268505	c8hxor65	XP_017329021.1	104
108268532	LOC108268532	XP_017329044.1	362
108268533	slc30a9	XP_017329045.1	1135
108268536	rep15	XP_017329049.1	224
108268543	LOC108268543	XP_017329053.1	100
108268582	c8h5orf45	XP_017329107.1	376
108268585	LOC108268585	XP_017329111.1	243
108268592	tmem231	XP_017329124.1	309
108268626	cenpu	XP_017329170.1	428
108268651	znf276	XP_017329208.1	414
108268662	LOC108268662	XP_017329223.1	221
108268663	LOC108268663	XP_017329225.1	118
108268671	slbp	XP_017329239.1	295
108268715	zgrf1	XP_017329327.1	545
108268795	nup62	XP_017329480.1	512
108268819	LOC108268819	XP_017329532.1	130
108268848	LOC108268848	XP_017329602.1	574
108268865	LOC108268865	XP_017329658.1	272
108268900	LOC108268900	XP_017329725.1	448
108268938	nxt2	XP_017329800.1	143
108268953	LOC108268953	XP_017329827.1	118
108268958	LOC108268958	XP_017329853.1	795
108268966	ubl3	XP_017329876.1	118
108268984	LOC108268984	XP_017329916.1	473
108268995	coq9	XP_017329950.1	333
108269003	borcs5	XP_017329960.1	195
108269101	LOC108269101	XP_017330157.1	318
108269114	LOC108269114	XP_017330183.1	85
108269120	LOC108269120	XP_017330191.1	282

108269176	LOC108269176	XP_017330307.1	245
108269185	LOC108269185	XP_017330322.1	156
108269188	fibp	XP_017330340.1	357
108269237	ndufa1	XP_017330468.1	70
108269238	cfl1	XP_017330469.1	165
108269272	fam149a	XP_017330522.1	655
108269287	efcab6	XP_017330552.1	1478
108269326	LOC108269326	XP_017330629.1	347
108269346	rnf4	XP_017330657.1	191
108269357	LOC108269357	XP_017330674.1	391
108269364	LOC108269364	XP_017330687.1	187
108269379	mmgt1	XP_017330712.1	130
108269405	spata4	XP_017330744.1	230
108269408	glod5	XP_017330752.1	160
108269432	jdp2	XP_017330797.1	170
108269435	g2e3	XP_017330800.1	652
108269445	LOC108269445	XP_017330825.1	260
108269449	spata7	XP_017330834.1	410
108269538	LOC108269538	XP_017330973.1	914
108269545	LOC108269545	XP_017330982.1	380
108269546	c9h2orf71	XP_017330979.1	1131
108269553	mrps15	XP_017330993.1	260
108269556	LOC108269556	XP_017330992.1	1129
108269564	LOC108269564	XP_017331003.1	211
108269573	LOC108269573	XP_017331011.1	480
108269574	LOC108269574	XP_017331012.1	214
108269637	srp14	XP_017331100.1	110
108269750	kiaa0586	XP_017331217.1	1588
108269761	ecd	XP_017331237.1	639
108269771	tmem206	XP_017331259.1	350
108269838	LOC108269838	XP_017331403.1	151
108269857	LOC108269857	XP_017331439.1	221
108269858	LOC108269858	XP_017331440.1	195
108269863	LOC108269863	XP_017331449.1	304
108269946	tex36	XP_017331608.1	196
108270035	LOC108270035	XP_017331764.1	466
108270064	iah1	XP_017331846.1	250
108270131	c9h14orf1	XP_017331983.1	143
108270148	bre	XP_017332021.1	386
108270179	cenpo	XP_017332083.1	282
108270183	fam149b1	XP_017332087.1	610
108270209	c9h8orf74	XP_017332135.1	279
108270291	kiaa1841	XP_017332307.1	705
108270326	slc39a9	XP_017332387.1	305
108270334	erich1	XP_017332400.1	308

108270385	nubpl	XP_017332506.1	328
108270427	LOC108270427	XP_017332609.1	699
108270430	LOC108270430	XP_017332613.1	191
108270459	lin52	XP_017332679.1	112
108270467	fam181a	XP_017332692.1	291
108270468	LOC108270468	XP_017332694.1	151
108270512	pex11g	XP_017332787.1	218
108270515	LOC108270515	XP_017332796.1	204
108270527	axdnd1	XP_017332811.1	1042
108270528	c1h7orf50	XP_017332817.1	279
108270544	LOC108270544	XP_017332843.1	303
108270569	pdzk1ip1	XP_017332885.1	109
108270606	tmem204	XP_017332952.1	219
108270612	ogfod1	XP_017332928.1	540
108270622	LOC108270622	XP_017332938.1	848
108270629	ankub1	XP_017332943.1	637
108270633	spata1	XP_017332948.1	390
108270659	LOC108270659	XP_017332973.1	206
108270682	mrpl21	XP_017332998.1	206
108270721	LOC108270721	XP_017333063.1	536
108270750	tp53inp1	XP_017333134.1	242
108270760	lyrm1	XP_017333275.1	122
108270813	LOC108270813	XP_017333245.1	371
108270820	rsph3	XP_017333258.1	328
108270827	LOC108270827	XP_017333268.1	229
108270830	c1h8orf37	XP_017333284.1	208
108270841	c10h19orf60	XP_017333295.1	157
108270843	fam174a	XP_017333296.1	129
108270897	LOC108270897	XP_017333386.1	651
108270906	LOC108270906	XP_017333404.1	127
108270910	ist1	XP_017333413.1	342
108270958	mrpl54	XP_017333510.1	139
108271009	tradd	XP_017333645.1	294
108271026	LOC108271026	XP_017333685.1	133
108271030	afmid	XP_017333706.1	293
108271033	ppp1r2	XP_017333711.1	204
108271034	LOC108271034	XP_017333713.1	395
108271047	vimp	XP_017333731.1	189
108271049	mecr	XP_017333748.1	344
108271079	LOC108271079	XP_017333817.1	469
108271133	dnajc19	XP_017333934.1	116
108271157	prune1	XP_017334001.1	429
108271173	impact	XP_017334024.1	322
108271184	mydgf	XP_017334042.1	178
108271190	LOC108271190	XP_017334054.1	289

108271194	LOC108271194	XP_017334058.1	221
108271213	LOC108271213	XP_017334100.1	112
108271221	pigx	XP_017334116.1	215
108271222	LOC108271222	XP_017334120.1	230
108271237	lins1	XP_017334154.1	662
108271246	LOC108271246	XP_017334171.1	1368
108271266	c10h19orf70	XP_017334212.1	111
108271272	tmem221	XP_017334223.1	273
108271275	borcs8	XP_017334230.1	128
108271285	r3hdm4	XP_017334247.1	254
108271332	nadsyn1	XP_017334345.1	701
108271362	LOC108271362	XP_017334427.1	77
108271369	c1h9orf152	XP_017334440.1	224
108271373	fbxo22	XP_017334431.1	389
108271386	LOC108271386	XP_017334449.1	154
108271399	bola3	XP_017334473.1	105
108271413	c10h1orf53	XP_017334492.1	158
108271431	mrps11	XP_017334520.1	202
108271500	LOC108271500	XP_017334602.1	201
108271505	LOC108271505	XP_017334614.1	259
108271521	LOC108271521	XP_017334637.1	617
108271526	manbal	XP_017334643.1	87
108271565	LOC108271565	XP_017334707.1	919
108271582	rsg1	XP_017334731.1	250
108271588	LOC108271588	XP_017334740.1	853
108271659	ssb	XP_017334864.1	407
108271660	LOC108271660	XP_017334866.1	313
108271708	LOC108271708	XP_017334922.1	90
108271721	LOC108271721	XP_017334924.1	124
108271730	trub2	XP_017334930.1	350
108271731	LOC108271731	XP_017334932.1	157
108271797	LOC108271797	XP_017335063.1	127
108271804	blcap	XP_017335073.1	87
108271811	ccdc174	XP_017335082.1	474
108271834	LOC108271834	XP_017335152.1	144
108271867	LOC108271867	XP_017335235.1	168
108271895	nprl2	XP_017335313.1	379
108271903	mrpl47	XP_017335326.1	251
108271970	ddi2	XP_017335457.1	426
108272020	nubp2	XP_017335618.1	270
108272024	pxmp4	XP_017335579.1	210
108272045	LOC108272045	XP_017335630.1	111
108272056	tomm6	XP_017335657.1	71
108272058	LOC108272058	XP_017335663.1	283
108272076	LOC108272076	XP_017335728.1	81

108272088	c11h1orf146	XP_017335739.1	175
108272129	lrrc41	XP_017335822.1	584
108272150	LOC108272150	XP_017335866.1	238
108272178	sycp1	XP_017335927.1	954
108272267	LOC108272267	XP_017336069.1	114
108272277	c11h1orf159	XP_017336084.1	192
108272321	mrpl36	XP_017336148.1	116
108272336	ube3d	XP_017336175.1	392
108272338	LOC108272338	XP_017336173.1	168
108272359	rps19bp1	XP_017336220.1	150
108272378	dtd1	XP_017336253.1	257
108272400	zglp1	XP_017336283.1	537
108272404	c12h17orf67	XP_017336299.1	85
108272416	LOC108272416	XP_017336321.1	86
108272422	LOC108272422	XP_017336327.1	579
108272442	LOC108272442	XP_017336348.1	111
108272482	mei1	XP_017336392.1	1292
108272509	no112	XP_017336445.1	234
108272515	polr2f	XP_017336450.1	121
108272526	stx8	XP_017336462.1	236
108272547	pigv	XP_017336530.1	486
108272548	fopnl	XP_017336504.1	121
108272558	LOC108272558	XP_017336524.1	204
108272565	LOC108272565	XP_017336532.1	118
108272599	LOC108272599	XP_017336578.1	211
108272621	s100a14	XP_017336616.1	104
108272626	LOC108272626	XP_017336622.1	260
108272632	LOC108272632	XP_017336641.1	90
108272697	c12h6orf136	XP_017336800.1	415
108272718	zdbf2	XP_017336858.1	871
108272728	LOC108272728	XP_017336879.1	275
108272746	LOC108272746	XP_017336925.1	248
108272747	LOC108272747	XP_017336926.1	212
108272753	ppp1r11	XP_017336941.1	123
108272758	endov	XP_017336952.1	250
108272761	sdha	XP_017336956.1	662
108272796	c12h5orf49	XP_017337035.1	136
108272805	LOC108272805	XP_017337090.1	472
108272811	fbf1	XP_017337070.1	1137
108272837	LOC108272837	XP_017337122.1	345
108272843	rtbdn	XP_017337130.1	263
108272846	pmm1	XP_017337135.1	259
108272847	LOC108272847	XP_017337136.1	216
108272854	LOC108272854	XP_017337156.1	150
108272857	LOC108272857	XP_017337161.1	132

108272880	gtf2h4	XP_017337174.1	467
108272884	pdss1	XP_017337193.1	422
108272889	LOC108272889	XP_017337203.1	364
108272892	LOC108272892	XP_017337206.1	250
108272972	LOC108272972	XP_017337368.1	3158
108273004	jmjd8	XP_017337429.1	261
108273007	hsppb1	XP_017337448.1	326
108273027	tmem220	XP_017337487.1	167
108273100	catip	XP_017337611.1	368
108273138	LOC108273138	XP_017337668.1	142
108273139	LOC108273139	XP_017337671.1	345
108273197	ssr2	XP_017337788.1	185
108273218	LOC108273218	XP_017337834.1	165
108273235	dph3	XP_017337868.1	85
108273240	csnk2b	XP_017337877.1	215
108273242	nudt15	XP_017337881.1	162
108273279	arl6ip6	XP_017337929.1	183
108273299	triqk	XP_017337949.1	84
108273303	wbp4	XP_017337956.1	369
108273407	LOC108273407	XP_017338083.1	602
108273421	tnfrsf17	XP_017338113.1	186
108273470	fads6	XP_017338193.1	355
108273531	cd84	XP_017338293.1	632
108273532	LOC108273532	XP_017338295.1	255
108273533	LOC108273533	XP_017338296.1	327
108273539	LOC108273539	XP_017338302.1	214
108273543	LOC108273543	XP_017338304.1	219
108273551	LOC108273551	XP_017338314.1	150
108273621	pstk	XP_017338466.1	298
108273634	LOC108273634	XP_017338475.1	69
108273640	LOC108273640	XP_017338488.1	903
108273643	nif3l1	XP_017338492.1	413
108273677	LOC108273677	XP_017338571.1	326
108273694	LOC108273694	XP_017338585.1	241
108273715	cep131	XP_017338627.1	1095
108273736	zcchc4	XP_017338684.1	482
108273764	amz2	XP_017338764.1	352
108273775	LOC108273775	XP_017338787.1	133
108273793	LOC108273793	XP_017338810.1	122
108273794	c13h17orf89	XP_017338811.1	70
108273805	ghdc	XP_017338850.1	627
108273871	armc7	XP_017338998.1	198
108273878	lsm5	XP_017339009.1	91
108273919	mettl9	XP_017339098.1	323
108273920	LOC108273920	XP_017339103.1	326

108273936	LOC108273936	XP_017339127.1	332
108273940	c13h10orf2	XP_017339130.1	736
108274003	mtol	XP_017339245.1	660
108274006	LOC108274006	XP_017339251.1	414
108274049	tmem128	XP_017339338.1	165
108274088	LOC108274088	XP_017339436.1	362
108274099	anapc16	XP_017339456.1	109
108274101	LOC108274101	XP_017339469.1	132
108274118	cby1	XP_017339507.1	125
108274124	LOC108274124	XP_017339516.1	266
108274132	LOC108274132	XP_017339533.1	213
108274154	stra13	XP_017339585.1	81
108274158	igsf6	XP_017339599.1	252
108274169	uros	XP_017339630.1	263
108274171	c13h17orf62	XP_017339636.1	211
108274181	LOC108274181	XP_017339652.1	101
108274182	cntd1	XP_017339655.1	227
108274237	slamf7	XP_017339755.1	333
108274239	LOC108274239	XP_017339766.1	110
108274317	LOC108274317	XP_017339904.1	119
108274323	rsl1d1	XP_017339916.1	378
108274332	LOC108274332	XP_017339931.1	426
108274357	atpaf2	XP_017339977.1	288
108274373	adprm	XP_017340008.1	324
108274421	LOC108274421	XP_017340070.1	385
108274437	LOC108274437	XP_017340103.1	377
108274465	LOC108274465	XP_017340142.1	145
108274489	LOC108274489	XP_017340213.1	494
108274543	LOC108274543	XP_017340246.1	382
108274556	mansc4	XP_017340260.1	455
108274570	LOC108274570	XP_017340272.1	253
108274594	LOC108274594	XP_017340295.1	145
108274600	LOC108274600	XP_017340300.1	281
108274660	c14h5orf24	XP_017340376.1	203
108274663	LOC108274663	XP_017340380.1	195
108274703	pgghg	XP_017340465.1	699
108274729	nfatc2ip	XP_017340516.1	325
108274730	LOC108274730	XP_017340517.1	210
108274805	msto1	XP_017340682.1	589
108274815	LOC108274815	XP_017340704.1	132
108274833	LOC108274833	XP_017340746.1	317
108274844	LOC108274844	XP_017340765.1	278
108274851	LOC108274851	XP_017340774.1	254
108274880	LOC108274880	XP_017340816.1	132
108274911	LOC108274911	XP_017340854.1	97

108274930	nrg4	XP_017340843.1	97
108274964	LOC108274964	XP_017340920.1	356
108274971	LOC108274971	XP_017340934.1	136
108274994	rfwd3	XP_017340989.1	698
108275006	LOC108275006	XP_017341021.1	298
108275008	snupn	XP_017341026.1	363
108275034	LOC108275034	XP_017341076.1	173
108275085	LOC108275085	XP_017341189.1	222
108275124	LOC108275124	XP_017341218.1	262
108275137	fbxl22	XP_017341238.1	227
108275153	LOC108275153	XP_017341260.1	259
108275158	LOC108275158	XP_017341265.1	230
108275160	LOC108275160	XP_017341266.1	1148
108275170	pdc2l	XP_017341285.1	352
108275196	jmjd6	XP_017341324.1	140
108275210	lrrc56	XP_017341346.1	629
108275351	LOC108275351	XP_017341616.1	234
108275371	dctn4	XP_017341640.1	467
108275393	LOC108275393	XP_017341663.1	719
108275413	fam96a	XP_017341695.1	157
108275422	LOC108275422	XP_017341716.1	245
108275461	LOC108275461	XP_017341784.1	299
108275481	epm2a	XP_017341821.1	323
108275523	LOC108275523	XP_017341878.1	166
108275566	LOC108275566	XP_017341953.1	474
108275567	lkaear1	XP_017341956.1	144
108275572	irak1bp1	XP_017341961.1	249
108275574	ubxn10	XP_017341965.1	222
108275597	LOC108275597	XP_017341990.1	340
108275606	LOC108275606	XP_017342001.1	1102
108275610	LOC108275610	XP_017342005.1	367
108275615	LOC108275615	XP_017342009.1	548
108275642	LOC108275642	XP_017342036.1	555
108275660	LOC108275660	XP_017342078.1	148
108275665	LOC108275665	XP_017342075.1	289
108275681	LOC108275681	XP_017342084.1	183
108275682	LOC108275682	XP_017342086.1	122
108275702	LOC108275702	XP_017342115.1	273
108275703	LOC108275703	XP_017342117.1	206
108275704	trappc1	XP_017342118.1	145
108275706	LOC108275706	XP_017342121.1	100
108275707	LOC108275707	XP_017342122.1	66
108275752	LOC108275752	XP_017342185.1	167
108275757	LOC108275757	XP_017342195.1	447
108275758	LOC108275758	XP_017342196.1	445

108275760	LOC108275760	XP_017342203.1	221
108275801	c15h20orf24	XP_017342288.1	128
108275809	LOC108275809	XP_017342298.1	275
108275817	kti12	XP_017342313.1	275
108275827	LOC108275827	XP_017342333.1	79
108275830	LOC108275830	XP_017342336.1	297
108275832	LOC108275832	XP_017342338.1	605
108275833	plekhn2	XP_017342343.1	938
108275920	LOC108275920	XP_017342544.1	286
108275937	slc35c2	XP_017342591.1	354
108275956	LOC108275956	XP_017342623.1	168
108275963	LOC108275963	XP_017342641.1	108
108275973	LOC108275973	XP_017342672.1	228
108276081	LOC108276081	XP_017342914.1	201
108276082	LOC108276082	XP_017342915.1	158
108276104	LOC108276104	XP_017342966.1	770
108276126	gpr157	XP_017343012.1	336
108276133	smim4	XP_017343022.1	81
108276175	aurkaip1	XP_017343118.1	209
108276194	ccdc103	XP_017343151.1	244
108276198	LOC108276198	XP_017343154.1	99
108276253	dnajc22	XP_017343255.1	340
108276266	ctc1	XP_017343276.1	1260
108276292	LOC108276292	XP_017343345.1	172
108276302	LOC108276302	XP_017343366.1	175
108276309	oard1	XP_017343377.1	155
108276342	LOC108276342	XP_017343433.1	396
108276355	LOC108276355	XP_017343456.1	253
108276400	hmgn3	XP_017343533.1	96
108276434	LOC108276434	XP_017343592.1	174
108276471	LOC108276471	XP_017343659.1	376
108276476	haus7	XP_017343667.1	411
108276528	LOC108276528	XP_017343763.1	627
108276534	LOC108276534	XP_017343774.1	210
108276535	ier3ip1	XP_017343776.1	82
108276537	setd9	XP_017343779.1	259
108276556	dcps	XP_017343808.1	323
108276590	LOC108276590	XP_017343905.1	102
108276593	c16h5orf63	XP_017343869.1	123
108276612	phf24	XP_017343903.1	416
108276651	LOC108276651	XP_017343949.1	236
108276652	sertm1	XP_017343950.1	123
108276653	LOC108276653	XP_017343951.1	249
108276691	rhbdd2	XP_017344003.1	376
108276721	ccdc62	XP_017344067.1	523

108276734	snx24	XP_017344098.1	172
108276745	srek1ip1	XP_017344136.1	158
108276751	LOC108276751	XP_017344146.1	84
108276768	LOC108276768	XP_017344177.1	240
108276771	LOC108276771	XP_017344185.1	150
108276776	crebzf	XP_017344205.1	271
108276778	ift46	XP_017344209.1	351
108276779	LOC108276779	XP_017344213.1	248
108276807	htatsf1	XP_017344282.1	459
108276825	lcn2	XP_017344320.1	203
108276831	swi5	XP_017344328.1	138
108276852	dexi	XP_017344374.1	89
108276856	mocs2	XP_017344379.1	86
108276870	nubp1	XP_017344407.1	326
108276896	wdr74	XP_017344466.1	404
108276919	acer3	XP_017344520.1	230
108276925	bri3	XP_017344535.1	135
108276953	LOC108276953	XP_017344611.1	365
108276954	LOC108276954	XP_017344615.1	296
108276955	LOC108276955	XP_017344617.1	287
108276956	LOC108276956	XP_017344623.1	271
108276990	morn5	XP_017344712.1	183
108276991	rbm18	XP_017344713.1	189
108277062	mrpl48	XP_017344860.1	257
108277066	tiprl	XP_017344868.1	225
108277077	rnasek	XP_017344886.1	101
108277099	LOC108277099	XP_017344969.1	261
108277109	tmem135	XP_017344982.1	463
108277116	LOC108277116	XP_017344993.1	1220
108277174	LOC108277174	XP_017345150.1	393
108277202	abhd18	XP_017345207.1	435
108277208	LOC108277208	XP_017345234.1	129
108277210	rippy3	XP_017345218.1	127
108277298	hirip3	XP_017345391.1	576
108277311	brf2	XP_017345409.1	401
108277312	LOC108277312	XP_017345410.1	388
108277329	zcchc9	XP_017345453.1	292
108277351	timm10b	XP_017345491.1	188
108277380	urml	XP_017345552.1	101
108277426	mrps23	XP_017345656.1	190
108277433	parl	XP_017345675.1	358
108277470	LOC108277470	XP_017345743.1	390
108277487	LOC108277487	XP_017345780.1	251
108277501	LOC108277501	XP_017345807.1	149
108277510	lyrm9	XP_017345821.1	94

108277513	LOC108277513	XP_017345825.1	780
108277523	gap43	XP_017345837.1	222
108277527	fam181b	XP_017345841.1	322
108277556	LOC108277556	XP_017345867.1	244
108277586	lrrc72	XP_017345892.1	260
108277607	LOC108277607	XP_017345909.1	449
108277654	LOC108277654	XP_017345945.1	246
108277656	sln	XP_017345947.1	32
108277673	psenen	XP_017345967.1	101
108277677	mettl16	XP_017345972.1	506
108277679	LOC108277679	XP_017345977.1	909
108277709	vmp1	XP_017346028.1	406
108277730	LOC108277730	XP_017346078.1	236
108277785	tex12	XP_017346181.1	157
108277787	sdhd	XP_017346194.1	155
108277805	rffl	XP_017346225.1	349
108277806	mkks	XP_017346231.1	506
108277841	LOC108277841	XP_017346308.1	310
108277928	lamtor1	XP_017346475.1	159
108278005	LOC108278005	XP_017346606.1	329
108278066	LOC108278066	XP_017346700.1	273
108278141	znf414	XP_017346821.1	322
108278146	LOC108278146	XP_017346829.1	203
108278149	thap4	XP_017346834.1	176
108278189	nudt8	XP_017346876.1	328
108278221	med29	XP_017346922.1	182
108278229	tp53i13	XP_017346932.1	498
108278243	LOC108278243	XP_017346950.1	224
108278261	LOC108278261	XP_017346976.1	560
108278282	kiaa0753	XP_017347020.1	856
108278291	LOC108278291	XP_017347038.1	398
108278320	cd3g	XP_017347102.1	165
108278351	tex26	XP_017347167.1	281
108278357	LOC108278357	XP_017347175.1	341
108278360	LOC108278360	XP_017347185.1	95
108278379	apom	XP_017347210.1	186
108278390	colca2	XP_017347232.1	238
108278459	cdipt	XP_017347344.1	213
108278492	LOC108278492	XP_017347394.1	376
108278522	LOC108278522	XP_017347453.1	377
108278547	LOC108278547	XP_017347486.1	408
108278567	LOC108278567	XP_017347507.1	567
108278588	LOC108278588	XP_017347534.1	323
108278599	bhmg1	XP_017347539.1	479
108278638	LOC108278638	XP_017347586.1	225

108278668	elof1	XP_017347637.1	125
108278689	LOC108278689	XP_017347659.1	61
108278700	LOC108278700	XP_017347674.1	83
108278728	LOC108278728	XP_017347728.1	144
108278760	pigs	XP_017347807.1	564
108278771	prdx5	XP_017347825.1	185
108278818	arpc3	XP_017347929.1	178
108278861	LOC108278861	XP_017348002.1	286
108278864	ik	XP_017348012.1	544
108278895	LOC108278895	XP_017348088.1	179
108278918	ecscr	XP_017348142.1	131
108278938	cks2	XP_017348210.1	77
108278976	rnf121	XP_017348306.1	334
108278982	LOC108278982	XP_017348322.1	163
108279000	LOC108279000	XP_017348348.1	108
108279074	sart1	XP_017348517.1	778
108279103	ostm1	XP_017348568.1	294
108279148	gnrh2	XP_017348636.1	86
108279163	dolpp1	XP_017348668.1	238
108279178	LOC108279178	XP_017348697.1	219
108279196	mcrip1	XP_017348735.1	94
108279207	tmigd1	XP_017348747.1	263
108279211	LOC108279211	XP_017348754.1	256
108279226	LOC108279226	XP_017348784.1	92
108279231	LOC108279231	XP_017348792.1	78
108279234	LOC108279234	XP_017348795.1	184
108279242	taf1a	XP_017348811.1	429
108279254	zw10	XP_017348824.1	768
108279288	LOC108279288	XP_017348905.1	271
108279312	fech	XP_017348952.1	412
108279328	LOC108279328	XP_017348985.1	696
108279342	ddias	XP_017349010.1	644
108279354	rippy1	XP_017349040.1	152
108279367	xrral	XP_017349072.1	558
108279396	LOC108279396	XP_017349126.1	97
108279446	mrps33	XP_017349191.1	106
108279450	LOC108279450	XP_017349198.1	156
108279454	LOC108279454	XP_017349203.1	369
108279460	c19h12orf75	XP_017349212.1	80
108279494	ccdc107	XP_017349285.1	315
108279518	ptrhd1	XP_017349317.1	127
108279552	atp6v1f	XP_017349376.1	119
108279572	LOC108279572	XP_017349381.1	507
108279594	LOC108279594	XP_017349401.1	344
108279608	LOC108279608	XP_017349416.1	208

108279616	LOC108279616	XP_017349420.1	140
108279620	LOC108279620	XP_017349423.1	282
108279621	LOC108279621	XP_017349426.1	176
108279633	spx	XP_017349443.1	112
108279678	iapp	XP_017349512.1	132
108279705	rhno1	XP_017349597.1	293
108279729	slc35e3	XP_017349642.1	260
108279730	llph	XP_017349645.1	178
108279790	LOC108279790	XP_017349766.1	76
108279802	alg12	XP_017349784.1	496
108279808	mest	XP_017349793.1	298
108279818	LOC108279818	XP_017349799.1	341
108279866	c19h11orf98	XP_017349919.1	116
108279867	mansc1	XP_017349921.1	458
108279898	cdpf1	XP_017350000.1	113
108280010	smkr1	XP_017350226.1	87
108280035	LOC108280035	XP_017350265.1	228
108280046	mrpl42	XP_017350283.1	150
108280048	tll12	XP_017350287.1	620
108280054	lsm8	XP_017350294.1	96
108280084	ccdc42	XP_017350344.1	334
108280094	ssbp1	XP_017350360.1	146
108280096	LOC108280096	XP_017350362.1	79
108280105	LOC108280105	XP_017350396.1	204
108280128	tmem243	XP_017350378.1	139
108280143	mrps18a	XP_017350409.1	208
108280144	c19h12orf40	XP_017350413.1	611
108280224	LOC108280224	XP_017350549.1	268
108280245	LOC108280245	XP_017350580.1	247
108280283	hhla1	XP_017350622.1	429
108280321	LOC108280321	XP_017350678.1	195
108280322	LOC108280322	XP_017350679.1	194
108280326	LOC108280326	XP_017350681.1	260
108280350	LOC108280350	XP_017350740.1	367
108280351	LOC108280351	XP_017350743.1	267
108280363	LOC108280363	XP_017350755.1	135
108280381	tstd3	XP_017350785.1	156
108280382	LOC108280382	XP_017350786.1	81
108280406	pih1d3	XP_017350834.1	239
108280437	adhfe1	XP_017350884.1	443
108280468	rpap2	XP_017350945.1	608
108280484	LOC108280484	XP_017350999.1	315
108280493	LOC108280493	XP_017351012.1	323
108280507	pih1d1	XP_017351032.1	281
108280514	LOC108280514	XP_017351063.1	272

108280542	LOC108280542	XP_017351122.1	283
108280592	sptssb	XP_017351226.1	80
108280629	mre11a	XP_017351314.1	698
108280651	sugp1	XP_017351363.1	626
108280671	atp5sl	XP_017351447.1	257
108280678	LOC108280678	XP_017351462.1	308
108280687	LOC108280687	XP_017351482.1	92
108280738	pnisr	XP_017351582.1	753
108280817	ech1	XP_017351736.1	305
108280846	emc10	XP_017351788.1	253
108280854	kncn	XP_017351803.1	149
108280912	LOC108280912	XP_017351907.1	104
108280990	LOC108280990	XP_017351995.1	251
108281024	LOC108281024	XP_017352057.1	302
108281047	LOC108281047	XP_017352082.1	201
108281048	nek4	XP_017352083.1	310
108281053	npff	XP_017352088.1	117
108281058	LOC108281058	XP_017352093.1	813
108281064	LOC108281064	XP_017352099.1	218
108281068	LOC108281068	XP_017352103.1	185
108281094	LOC108281094	XP_017352153.1	172
108281103	asb17	XP_017352164.1	206
108281106	LOC108281106	XP_017352166.1	295
