

Supplementary Table 1: Adhesion genes data set

PROBE	Entrez Gene ID	Celera Gene ID	Gene_Symbol	Gene_Name
160832		1 hCG201364.3	A1BG	alpha-1-B glycoprotein
223658		1 hCG201364.3	A1BG	alpha-1-B glycoprotein
212988		102 hCG40040.3	ADAM10	ADAM metalloproteinase domain 10
133411		4185 hCG28232.2	ADAM11	ADAM metalloproteinase domain 11
110695		8038 hCG40937.4	ADAM12	ADAM metalloproteinase domain 12 (meltrin alpha)
195222		8038 hCG40937.4	ADAM12	ADAM metalloproteinase domain 12 (meltrin alpha)
165344		8751 hCG20021.3	ADAM15	ADAM metalloproteinase domain 15 (metargidin)
189065		6868 null	ADAM17	ADAM metalloproteinase domain 17 (tumor necrosis factor, alpha, converting enzyme)
108119		8728 hCG15398.4	ADAM19	ADAM metalloproteinase domain 19 (meltrin beta)
117763		8748 hCG20675.3	ADAM20	ADAM metalloproteinase domain 20
126448		8747 hCG1785634.2	ADAM21	ADAM metalloproteinase domain 21
208981		8747 hCG1785634.2 hCG2042897	ADAM21	ADAM metalloproteinase domain 21
180903		53616 hCG17212.4	ADAM22	ADAM metalloproteinase domain 22
177272		8745 hCG1811623.1	ADAM23	ADAM metalloproteinase domain 23
102384		10863 hCG1818505.1	ADAM28	ADAM metalloproteinase domain 28
119968		11086 hCG1786734.2	ADAM29	ADAM metalloproteinase domain 29
205542		11085 hCG1997196.1	ADAM30	ADAM metalloproteinase domain 30
148417		80332 hCG39255.4	ADAM33	ADAM metalloproteinase domain 33
140492		8756 hCG1789002.2	ADAM7	ADAM metalloproteinase domain 7
122603		101 hCG1816947.1	ADAM8	ADAM metalloproteinase domain 8
183965		8754 hCG1996391	ADAM9	ADAM metalloproteinase domain 9 (meltrin gamma)
129974		27299 hCG15447.3	ADAMDEC1	ADAM-like, decysin 1
216353		9510 hCG401141.3	ADAMTS1	ADAM metalloproteinase with thrombospondin type 1 motif, 1
135015		81794 hCG23963.2	ADAMTS10	ADAM metalloproteinase with thrombospondin type 1 motif, 10
135934		81792 hCG1812764.1	ADAMTS12	ADAM metalloproteinase with thrombospondin type 1 motif, 12
104172		11093 hCG2033000	ADAMTS13	ADAM metalloproteinase with thrombospondin type 1 motif, 13
173004		11093 hCG2033000	ADAMTS13	ADAM metalloproteinase with thrombospondin type 1 motif, 13
156541		140766 hCG23655.3	ADAMTS14	ADAM metalloproteinase with thrombospondin type 1 motif, 14
139659		170689 hCG40417.2	ADAMTS15	ADAM metalloproteinase with thrombospondin type 1 motif, 15
141688		170690 hCG1811552.1	ADAMTS16	ADAM metalloproteinase with thrombospondin type 1 motif, 16
234856		170690 hCG1811552.1	ADAMTS16	ADAM metalloproteinase with thrombospondin type 1 motif, 16
135701		170691 hCG1993235	ADAMTS17	ADAM metalloproteinase with thrombospondin type 1 motif, 17
179892		170691 hCG1993235	ADAMTS17	ADAM metalloproteinase with thrombospondin type 1 motif, 17
155604		170692 hCG1812188.2	ADAMTS18	ADAM metalloproteinase with thrombospondin type 1 motif, 18
220286		170692 hCG1812188.2	ADAMTS18	ADAM metalloproteinase with thrombospondin type 1 motif, 18
114299		171019 hCG1643514.3	ADAMTS19	ADAM metalloproteinase with thrombospondin type 1 motif, 19
145319		9509 hCG16528.3	ADAMTS2	ADAM metalloproteinase with thrombospondin type 1 motif, 2
224359		9509 hCG16528.3	ADAMTS2	ADAM metalloproteinase with thrombospondin type 1 motif, 2
168207		80070 hCG39495.5	ADAMTS20	ADAM metalloproteinase with thrombospondin type 1 motif, 20
219728		80070 hCG39495.5	ADAMTS20	ADAM metalloproteinase with thrombospondin type 1 motif, 20
227912		80070 null	ADAMTS20	ADAM metalloproteinase with thrombospondin type 1 motif, 20

204346	9508 hCG1811838.1	ADAMTS3	ADAM metallopeptidase with thrombospondin type 1 motif, 3
212524	9507 hCG17833.3	ADAMTS4	ADAM metallopeptidase with thrombospondin type 1 motif, 4
136978	11096 hCG401140.3	ADAMTS5	ADAM metallopeptidase with thrombospondin type 1 motif, 5 (aggrecanase-2)
145107	11174 hCG1647431.3	ADAMTS6	ADAM metallopeptidase with thrombospondin type 1 motif, 6
149874	11174 hCG1988853	ADAMTS6	ADAM metallopeptidase with thrombospondin type 1 motif, 6
166404	11174 hCG1811043.3	ADAMTS6	ADAM metallopeptidase with thrombospondin type 1 motif, 6
179622	11174 hCG1647431.3	ADAMTS6	ADAM metallopeptidase with thrombospondin type 1 motif, 6
134341	11173 hCG1640577.3	ADAMTS7	ADAM metallopeptidase with thrombospondin type 1 motif, 7
189195	11173 hCG1640577.3	ADAMTS7	ADAM metallopeptidase with thrombospondin type 1 motif, 7
170995	11095 hCG40418.3	ADAMTS8	ADAM metallopeptidase with thrombospondin type 1 motif, 8
160876	56999 hCG2043003	ADAMTS9	ADAM metallopeptidase with thrombospondin type 1 motif, 9
182644	92949 hCG1818607.2	ADAMTSL1	ADAMTS-like 1
183983	92949 hCG1818607.2	ADAMTSL1	ADAMTS-like 1
227559	92949 hCG1818607.2	ADAMTSL1	ADAMTS-like 1
204050	9719 hCG28143.3	ADAMTSL2	ADAMTS-like 2
158085	57188 hCG27265.3	ADAMTSL3	ADAMTS-like 3
112509	140 hCG1760557.3	ADORA3	adenosine A3 receptor
156250	140 hCG39982.2	ADORA3	adenosine A3 receptor
218175	176 hCG28649.3	AGC1	aggrecan 1 (chondroitin sulfate proteoglycan 1, large aggregating proteoglycan, antigen identified by monoclonal antibody A0122)
122393	177 hCG2044639 hCG2001537.1	AGER	advanced glycosylation end product-specific receptor
228903	375790 hCG1995898	AGRN	agrin
186803	197 hCG16147.3	AHSG	alpha-2-HS-glycoprotein
115975	214 hCG27958.2	ALCAM	activated leukocyte cell adhesion molecule
106407	117583 hCG2012035	ALS2CR19	amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 19
224751	117583 hCG2036857	ALS2CR19	amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 19
196021	265 hCG401191.2	AMELX	amelogenin (amelogenesis imperfecta 1, X-linked)
203775	266 hCG1732683.1	AMELY	amelogenin, Y-linked
140620	120425 hCG41155.2	AMICA1	adhesion molecule, interacts with CXADR antigen 1
208102	79658 hCG1811988.1	ARHGAP10	Rho GTPase activating protein 10
136133	23092 hCG1782366.2	ARHGAP26	Rho GTPase activating protein 26
150454	421 hCG17887.4	ARVCF	armadillo repeat gene deletes in velocardiofacial syndrome
228763	421 hCG2002268	ARVCF	armadillo repeat gene deletes in velocardiofacial syndrome
157140	432 hCG1985284	ASGR1	asialoglycoprotein receptor 1
220229	432 hCG1985284	ASGR1	asialoglycoprotein receptor 1
143569	433 hCG32818.4	ASGR2	asialoglycoprotein receptor 2
221995	433 hCG32818.4	ASGR2	asialoglycoprotein receptor 2
105371	54829 hCG1784540.1	ASPN	asporin (LRR class 1)
136536	563 hCG1735841.1 hCG1770601.2	AZGP1	alpha-2-glycoprotein 1, zinc
111447	63827 hCG17182.3	BCAN	brevican
228373	63827 hCG2042268	BCAN	brevican

171525	633 hCG39567.3	BGN	biglycan
188387	168667 hCG37272.3	BMPER	BMP binding endothelial regulator
228431	168667 hCG2010017	BMPER	BMP binding endothelial regulator
102090	80014 hCG2025762	BOMB	null
118065	80014 hCG2025762	BOMB	null
217924	80014 hCG2025762	BOMB	null
234594	80014 hCG2025762	BOMB	null
171578	8927 hCG20124.3	BSN	bassoon (presynaptic cytomatrix protein)
104481	414194 hCG1744837.2	C10orf21	chromosome 10 open reading frame 21
127043	414194 hCG1744837.2	C10orf21	chromosome 10 open reading frame 21
212706	414194 hCG1744837.2	C10orf21	chromosome 10 open reading frame 21
233232	284021 hCG2002349	C17orf60	chromosome 17 open reading frame 60
128389	22918 hCG22367.4	C1QR1	complement component 1, q subcomponent, receptor 1
161637	206938 hCG1818607.2	C9orf94	chromosome 9 open reading frame 94
162273	147372 hCG1980183	CCBE1	collagen and calcium binding EGF domains 1
173022	977 hCG1993428.1	CD151	CD151 antigen
107874	8763 hCG34121.3	CD164	CD164 antigen, sialomucin
157569	388611 hCG19632.2	CD164L2	CD164 sialomucin-like 2
178946	909 hCG1788762.1	CD1A	CD1a antigen
128785	910 hCG39947.3	CD1B	CD1b antigen
150670	911 hCG39946.3	CD1C	CD1C antigen, c polypeptide
198762	912 hCG39945.3	CD1D	CD1D antigen, d polypeptide
193415	913 hCG1640053.3	CD1E	CD1E antigen, e polypeptide
205519	914 hCG39065.3	CD2	CD2 antigen (p50), sheep red blood cell receptor
105368	4345 hCG17791.3	CD200	CD200 antigen
128290	50489 hCG41005.2	CD207	CD207 antigen, langerin
102314	30835 hCG22558.2	CD209	CD209 antigen
170532	10666 hCG17484.3	CD226	CD226 antigen
154682	51744 hCG20847.3	CD244	CD244 natural killer cell receptor 2B4
107703	940 hCG16886.2	CD28	CD28 antigen (Tp44)
164779	11314 hCG29838.3	CD300A	CD300A antigen
204590	10871 hCG1775258.2	CD300C	CD300C antigen
142370	124599 hCG1775263.2	CD300LB	CD300 antigen like family member B
126577	342510 hCG1775271.3	CD300LE	CD300 antigen like family member E
128514	146722 hCG1775264.2	CD300LF	CD300 antigen like family member F
197328	146722 hCG1775264.2	CD300LF	CD300 antigen like family member F
205150	146722 hCG1775264.2	CD300LF	CD300 antigen like family member F
221500	146894 hCG1749090.2	CD300LG	CD300 antigen like family member G
142142	945 null	CD33	CD33 antigen (gp67)
172292	951 hCG16208.4	CD37	CD37 antigen
205264	915 hCG40222.3	CD3D	CD3D antigen, delta polypeptide (TIT3 complex)
126791	916 hCG41147.3	CD3E	CD3E antigen, epsilon polypeptide (TIT3 complex)
214486	917 hCG1646880.3	CD3G	CD3G antigen, gamma polypeptide (TIT3 complex)
211331	920 hCG25949.2	CD4	CD4 antigen (p55)
179899	961 hCG28376.2	CD47	CD47 antigen (Rh-related antigen, integrin-associated signal transducer)

123154	962 hCG20849.3	CD48	CD48 antigen (B-cell membrane protein)
201946	962 hCG20849.3	CD48	CD48 antigen (B-cell membrane protein)
152085	921 hCG40851.2	CD5	CD5 antigen (p56-62)
159670	963 hCG39988.3	CD53	CD53 antigen
152660	923 hCG40393.3	CD6	CD6 antigen
148128	924 hCG18659.2	CD7	CD7 antigen (p41)
119574	974 hCG41827.2	CD79B	CD79B antigen (immunoglobulin-associated beta)
186705	941 hCG1780136.3	CD80	CD80 antigen (CD28 antigen ligand 1, B7-1 antigen)
158652	975 hCG15478.3	CD81	CD81 antigen (target of antiproliferative antibody 1)
143954	3732 hCG14702.4	CD82	CD82 antigen
106273	8832 hCG20850.4	CD84	CD84 antigen (leukocyte antigen)
209820	942 hCG14759.4	CD86	CD86 antigen (CD28 antigen ligand 2, B7-2 antigen)
171779	925 hCG34192.4	CD8A	CD8 antigen, alpha polypeptide (p32)
191960	925 hCG34192.4	CD8A	CD8 antigen, alpha polypeptide (p32)
161967	926 hCG2043391 hCG2043450	CD8B1	CD8 antigen, beta polypeptide 1 (p37)
178355	926 null	CD8B1	CD8 antigen, beta polypeptide 1 (p37)
219372	926 null	CD8B1	CD8 antigen, beta polypeptide 1 (p37)
184793	928 hCG21633.3	CD9	CD9 antigen (p24)
184933	4267 hCG1733152.2	CD99	CD99 antigen
108946	83692 hCG39239.3	CD99L2	CD99 antigen-like 2
130505	999 hCG28201.2	CDH1	cadherin 1, type 1, E-cadherin (epithelial)
198370	1008 hCG36812.4	CDH10	cadherin 10, type 2 (T2-cadherin)
107867	1009 hCG26636.4	CDH11	cadherin 11, type 2, OB-cadherin (osteoblast)
134009	1010 hCG37393.5	CDH12	cadherin 12, type 2 (N-cadherin 2)
187441	1010 hCG37393.5	CDH12	cadherin 12, type 2 (N-cadherin 2)
166999	1012 hCG38474.2	CDH13	cadherin 13, H-cadherin (heart)
145682	1013 hCG32671.3	CDH15	cadherin 15, M-cadherin (myotubule)
146701	1014 hCG28820.3	CDH16	cadherin 16, KSP-cadherin
138781	1015 hCG21654.4	CDH17	cadherin 17, LI cadherin (liver-intestine)
162380	1016 hCG36876.4	CDH18	cadherin 18, type 2
176148	28513 hCG20155.2	CDH19	cadherin 19, type 2
187321	1000 hCG22518.3	CDH2	cadherin 2, type 1, N-cadherin (neuronal)
155649	28316 hCG32902.3	CDH20	cadherin 20, type 2
164226	64405 hCG40018.2	CDH22	cadherin-like 22
131599	64072 hCG2024684	CDH23	cadherin-like 23
221236	64072 hCG2024684	CDH23	cadherin-like 23
161267	64403 hCG2013843.2	CDH24	cadherin-like 24
219069	64403 hCG2013843.2	CDH24	cadherin-like 24
188014	60437 hCG1810933.2	CDH26	cadherin-like 26
222726	60437 hCG1810933.2	CDH26	cadherin-like 26
188051	1001 hCG26655.2	CDH3	cadherin 3, type 1, P-cadherin (placental)
134208	1002 hCG41773.2	CDH4	cadherin 4, type 1, R-cadherin (retinal)
183639	1002 hCG1785839.2	CDH4	cadherin 4, type 1, R-cadherin (retinal)
199571	1002 hCG1821260.1	CDH4	cadherin 4, type 1, R-cadherin (retinal)
122227	1003 hCG26635.3	CDH5	cadherin 5, type 2, VE-cadherin (vascular epithelium)

111907	1004 hCG21458.3	CDH6	cadherin 6, type 2, K-cadherin (fetal kidney)
220675	1004 hCG2003697.1	CDH6	cadherin 6, type 2, K-cadherin (fetal kidney)
147888	1005 hCG32903.3	CDH7	cadherin 7, type 2
190579	1005 hCG32903.3	CDH7	cadherin 7, type 2
156009	1006 hCG1811314.2	CDH8	cadherin 8, type 2
112886	50937 hCG39130.2	CDON	Cdon homolog (mouse)
173181	634 hCG21881.4	CEACAM1	carcinoembryonic antigen-related cell adhesion molecule 1 (biliary glycoprotein)
219223	634 hCG21881.4	CEACAM1	carcinoembryonic antigen-related cell adhesion molecule 1 (biliary glycoprotein)
125102	388551 hCG2040706	CEACAM16	carcinoembryonic antigen-related cell adhesion molecule 16
230194	56971 hCG1996183.2	CEACAM19	carcinoembryonic antigen-related cell adhesion molecule 19
133703	125931 hCG22143.3	CEACAM20	carcinoembryonic antigen-related cell adhesion molecule 20
120238	90273 hCG22317.4	CEACAM21	carcinoembryonic antigen-related cell adhesion molecule 21
217645	90273 null	CEACAM21	carcinoembryonic antigen-related cell adhesion molecule 21
187238	1084 hCG22311.4	CEACAM3	carcinoembryonic antigen-related cell adhesion molecule 3
112676	1089 hCG22308.2	CEACAM4	carcinoembryonic antigen-related cell adhesion molecule 4
192350	1048 hCG1642477.2	CEACAM5	carcinoembryonic antigen-related cell adhesion molecule 5
108409	4680 hCG22310.3	CEACAM6	carcinoembryonic antigen-related cell adhesion molecule 6 (non-specific cross reacting antigen)
194623	1087 hCG22307.3	CEACAM7	carcinoembryonic antigen-related cell adhesion molecule 7
197896	1088 hCG21882.3	CEACAM8	carcinoembryonic antigen-related cell adhesion molecule 8
202051	9620 hCG41795.3	CELSR1	cadherin, EGF LAG seven-pass G-type receptor 1 (flamingo homolog, Drosophila)
107531	1952 hCG2036605	CELSR2	cadherin, EGF LAG seven-pass G-type receptor 2 (flamingo homolog, Drosophila)
202001	1951 hCG41177.2	CELSR3	cadherin, EGF LAG seven-pass G-type receptor 3 (flamingo homolog, Drosophila)
162758	116983 hCG1995433	CENTB5	centaurin, beta 5
178907	116983 hCG1995433	CENTB5	centaurin, beta 5
226800	116983 hCG1995433	CENTB5	centaurin, beta 5
185938	1101 hCG29640.3	CHAD	chondroadherin
121311	10752 hCG1994985	CHL1	cell adhesion molecule with homology to L1CAM (close homolog of L1)
209482	10752 hCG1994985	CHL1	cell adhesion molecule with homology to L1CAM (close homolog of L1)
118354	1178 hCG43348.3	CLC	Charcot-Leyden crystal protein
152957	9076 hCG17574.3	CLDN1	claudin 1
129918	9071 hCG2039317 hCG27558.3	CLDN10	claudin 10
155853	5010 hCG18247.3	CLDN11	claudin 11 (oligodendrocyte transmembrane protein)
226478	5010 hCG18247.3	CLDN11	claudin 11 (oligodendrocyte transmembrane protein)
164008	23562 hCG1641900.2	CLDN14	claudin 14
153651	24146 hCG17122.3	CLDN15	claudin 15
182022	24146 hCG17122.3	CLDN15	claudin 15
163630	10686 hCG17572.2	CLDN16	claudin 16
163829	26285 hCG1647580.2	CLDN17	claudin 17
165119	51208 hCG2022628	CLDN18	claudin 18
112697	149461 hCG23165.4	CLDN19	claudin 19
185920	9075 hCG1640071.3	CLDN2	claudin 2
159987	49861 hCG1643100.1	CLDN20	claudin 20
157764	53842 hCG1645805.3	CLDN22	claudin 22
204936	137075 hCG1646163.3	CLDN23	claudin 23

204329	1365 hCG1737329.1	CLDN3	claudin 3
156519	1364 null	CLDN4	claudin 4
234132	1364 hCG1984829	CLDN4	claudin 4
153609	7122 hCG17893.2	CLDN5	claudin 5 (transmembrane protein deleted in velocardiofacial syndrome)
185838	9074 hCG1639991.1	CLDN6	claudin 6
163619	1366 hCG1641357.3	CLDN7	claudin 7
185528	9073 hCG1641416.1	CLDN8	claudin 8
179036	9080 hCG1643399.2	CLDN9	claudin 9
234534	9080 hCG1984371	CLDN9	claudin 9
112248	10462 hCG1777068.4	CLEC10A	C-type lectin domain family 10, member A
202592	161198 hCG19714.2	CLEC14A	C-type lectin domain family 14, member A
206625	51266 hCG1773843.2	CLEC1B	C-type lectin domain family 1, member B
130789	10143 hCG1645201.3	CLEC3A	C-type lectin domain family 3, member A
207590	7123 hCG15440.2	CLEC3B	C-type lectin domain family 3, member B
119554	50856 hCG1646296.3	CLEC4A	C-type lectin domain family 4, member A
131983	170482 hCG1821894.2	CLEC4C	C-type lectin domain family 4, member C
147399	338339 hCG1731137.1	CLEC4D	C-type lectin domain family 4, member D
103430	339390 hCG1645989.3	CLEC4G	C-type lectin superfamily 4, member G
180882	10332 hCG22557.3	CLEC4M	C-type lectin domain family 4, member M
118674	93978 null	CLEC6A	C-type lectin domain family 6, member A
113787	283420 hCG1815413.1	CLEC9A	C-type lectin domain family 9, member A
216425	22883 hCG1748747.2	CLSTN1	calysntenin 1
191167	64084 hCG16061.4	CLSTN2	calysntenin 2
155501	9746 hCG1811759.1	CLSTN3	calysntenin 3
198222	9746 hCG1811759.1	CLSTN3	calysntenin 3
194975	1272 hCG38261.3	CNTN1	contactin 1
170759	6900 hCG16407.3	CNTN2	contactin 2 (axonal)
196546	5067 hCG14804.3	CNTN3	contactin 3 (plasmacytoma associated)
108274	152330 hCG40118.3	CNTN4	contactin 4
199018	152330 hCG40118.3	CNTN4	contactin 4
190701	53942 hCG2032234.1	CNTN5	contactin 5
129580	27255 hCG40124.3	CNTN6	contactin 6
142791	8506 hCG16945.2	CNTNAP1	contactin associated protein 1
112323	26047 hCG15499.4	CNTNAP2	contactin associated protein-like 2
153182	79937 389734 null	CNTNAP3 CNTNAP3	contactin associated protein-like 3 contactin associated protein-like 3B
		B	
137105	85445 hCG1818591.1	CNTNAP4	contactin associated protein-like 4
224324	85445 hCG1818591.1	CNTNAP4	contactin associated protein-like 4
125999	129684 hCG15059.4	CNTNAP5	contactin associated protein-like 5
222432	129684 hCG15059.4	CNTNAP5	contactin associated protein-like 5
140793	1300 hCG20871.2	COL10A1	collagen, type X, alpha 1(Schmid metaphyseal chondrodysplasia)
172462	1301 hCG32386.2	COL11A1	collagen, type XI, alpha 1
192751	1302 hCG2039805	COL11A2	collagen, type XI, alpha 2
124270	1303 hCG16842.2	COL12A1	collagen, type XII, alpha 1
181713	1305 hCG1787551.2	COL13A1	collagen, type XIII, alpha 1

182265	1305 hCG1787551.2	COL13A1	collagen, type XIII, alpha 1
230401	1305 hCG1787551.2	COL13A1	collagen, type XIII, alpha 1
137206	7373 hCG17879.2	COL14A1	collagen, type XIV, alpha 1 (undulin)
201107	1306 hCG30155.3	COL15A1	collagen, type XV, alpha 1
209753	1307 hCG41613.2	COL16A1	collagen, type XVI, alpha 1
150410	1308 hCG24131.3	COL17A1	collagen, type XVII, alpha 1
141012	80781 hCG1647196.3	COL18A1	collagen, type XVIII, alpha 1
110772	1310 hCG15057.2	COL19A1	collagen, type XIX, alpha 1
194003	1277 hCG29609.3	COL1A1	collagen, type I, alpha 1
219504	1277 hCG29609.3	COL1A1	collagen, type I, alpha 1
225487	1277 hCG29609.3	COL1A1	collagen, type I, alpha 1
105493	1278 hCG1686428.3	COL1A2	collagen, type I, alpha 2
184976	57642 hCG23422.2	COL20A1	collagen, type XX, alpha 1
147309	169044 hCG2039138	COL22A1	collagen, type XXII, alpha 1
155672	169044 hCG2039138	COL22A1	collagen, type XXII, alpha 1
221096	169044 hCG2039138	COL22A1	collagen, type XXII, alpha 1
232424	169044 hCG2039138	COL22A1	collagen, type XXII, alpha 1
195072	84570 hCG1778377.2	COL25A1	collagen, type XXV, alpha 1
109131	85301 hCG32517.5	COL27A1	collagen, type XXVII, alpha 1
224496	85301 hCG32517.5	COL27A1	collagen, type XXVII, alpha 1
156790	1280 hCG27706.3	COL2A1	collagen, type II, alpha 1 (primary osteoarthritis, spondyloepiphyseal dysplasia, congenital)
113262	1281 hCG25172.3	COL3A1	collagen, type III, alpha 1 (Ehlers-Danlos syndrome type IV, autosomal dominant)
111306	1284 hCG33042.2	COL4A2	collagen, type IV, alpha 2
191285	1288 hCG1998342	COL4A6	collagen, type IV, alpha 6
110570	1289 hCG2021790	COL5A1	collagen, type V, alpha 1
114784	1290 hCG1776254.2	COL5A2	collagen, type V, alpha 2
181976	50509 hCG28486.2	COL5A3	collagen, type V, alpha 3
215580	1291 5820 hCG401279.2	COL6A1 PVT1	collagen, type VI, alpha 1 Pvt1 oncogene homolog, MYC activator (mouse)
105258	1292 hCG401253.4	COL6A2	collagen, type VI, alpha 2
115643	1293 hCG23027.2	COL6A3	collagen, type VI, alpha 3
154923	1294 hCG41167.3	COL7A1	collagen, type VII, alpha 1 (epidermolysis bullosa, dystrophic, dominant and recessive)
219384	1295 hCG2023566	COL8A1	collagen, type VIII, alpha 1
222934	1295 hCG2023566	COL8A1	collagen, type VIII, alpha 1
202981	1296 hCG1787720.2	COL8A2	collagen, type VIII, alpha 2
109339	1297 hCG1817803.1	COL9A1	collagen, type IX, alpha 1
102661	1298 hCG15675.3	COL9A2	collagen, type IX, alpha 2
176792	1299 hCG23409.3	COL9A3	collagen, type IX, alpha 3
135437	8292 hCG1811147.1	COLQ	collagen-like tail subunit (single strand of homotrimer) of asymmetric acetylcholinesterase
135619	1388 7148 hCG43704.3	CREBL1 TNXB	cAMP responsive element binding protein-like 1 tenascin XB
208454	56253 hCG1646674.2	CRTAM	null
138499	1444 1442 115548 hCG1749481.1	CSSL1 CSH1 FCHO2	chorionic somatomammotropin hormone-like 1 chorionic somato-mammotropin hormone 1 (placental lactogen) FCH domain only 2

207524	1462 hCG2015974	CSPG2	chondroitin sulfate proteoglycan 2 (versican)
139135	1463 hCG38558.2	CSPG3	chondroitin sulfate proteoglycan 3 (neurocan)
190250	91353 hCG1776656.2	CTA-246H3.1	null
154907	1490 hCG22108.3	CTGF	connective tissue growth factor
214897	1499 hCG27815.3	CTNNB1	catenin (cadherin-associated protein), beta 1, 88kDa
103069	1500 hCG1811636.1	CTNND1	catenin (cadherin-associated protein), delta 1
217813	1500 hCG1811636.1	CTNND1	catenin (cadherin-associated protein), delta 1
209786	1501 hCG1760222.1	CTNND2	catenin (cadherin-associated protein), delta 2 (neural plakophilin-related arm-repeat protein)
139697	57369 hCG38780.1	CX36	null
159867	84694 hCG1646231.2	CX62	null
200724	1605 hCG20125.3	DAG1	dystroglycan 1 (dystrophin-associated glycoprotein 1)
215640	1605 hCG20125.3	DAG1	dystroglycan 1 (dystrophin-associated glycoprotein 1)
166701	160365 hCG38152.3	DCAL1	null
218850	160365 hCG38152.3	DCAL1	null
172487	1630 hCG1811785.1	DCC	deleted in colorectal carcinoma
202024	8642 hCG1814547.2	DCHS1	dachsous 1 (Drosophila)
152068	54798 hCG1744099.2	DCHS2	dachsous 2 (Drosophila)
218176	54798 null	DCHS2	dachsous 2 (Drosophila)
222905	54798 null	DCHS2	dachsous 2 (Drosophila)
226589	54798 hCG1744099.2	DCHS2	dachsous 2 (Drosophila)
186800	149095 hCG20021.3	DCST1	DC-STAMP domain containing 1
173211	780 hCG26003.3	DDR1	discoidin domain receptor family, member 1
158495	4921 hCG14697.3	DDR2	discoidin domain receptor family, member 2
142663	9231 hCG22609.4	DLG5	discs, large homolog 5 (Drosophila)
121544	1758 hCG38539.2	DMP1	dentin matrix acidic phosphoprotein
195445	1805 hCG37801.3	DPT	dermatopontin
211965	1823 hCG25474.3	DSC1	desmocollin 1
201319	1824 hCG24896.3	DSC2	desmocollin 2
104158	1825 hCG2022649	DSC3	desmocollin 3
161543	1826 hCG401236.3	DSCAM	Down syndrome cell adhesion molecule
172677	57453 hCG1810968.1	DSCAML1	Down syndrome cell adhesion molecule like 1
188189	1828 hCG25471.3	DSG1	desmoglein 1
212532	1829 hCG25472.3	DSG2	desmoglein 2
126951	1830 hCG25473.3	DSG3	desmoglein 3 (pemphigus vulgaris antigen)
108789	147409 hCG1811256.3	DSG4	desmoglein 4
101413	1842 hCG31131.3	ECM2	extracellular matrix protein 2, female organ and adipocyte specific
101210	2202 hCG16977.4	EFEMP1	EGF-containing fibulin-like extracellular matrix protein 1
162548	30008 hCG2019682.1	EFEMP2	EGF-containing fibulin-like extracellular matrix protein 2
163870	10278 hCG41733.3	EFS	embryonal Fyn-associated substrate
182179	10278 hCG41733.3	EFS	embryonal Fyn-associated substrate
105515	1953 hCG1810754.1	EGFL3	EGF-like-domain, multiple 3
220221	1953 hCG1810754.1	EGFL3	EGF-like-domain, multiple 3
216444	1955 hCG28560.3	EGFL5	EGF-like-domain, multiple 5
162777	65989 hCG19003.3	EGFL9	EGF-like-domain, multiple 9

187671	2006	hCG18037.3	ELN	elastin (supravalvular aortic stenosis, Williams-Beuren syndrome)
136854	129080	hCG1644096.2	EMID1	EMI domain containing 1
133487	136227	hCG19042.3	EMID2	EMI domain containing 2
165362	11117	hCG23707.4	EMILIN1	elastin microfibril interfacier 1
205983	84034	hCG1646127.2	EMILIN2	elastin microfibril interfacier 2
233100	84034	hCG1995217	EMILIN2	elastin microfibril interfacier 2
114691	90187	hCG1640288.3	EMILIN3	elastin microfibril interfacier 3
203347	10117	hCG17001.3	ENAM	enamelin
133221	90952	hCG39808.2	ESAM	endothelial cell adhesion molecule
182608	50848	hCG20857.3	F11R	F11 receptor
131558	2195	hCG16250.2	FAT	FAT tumor suppressor homolog 1 (Drosophila)
111981	2196	hCG1641616.2	FAT2	FAT tumor suppressor homolog 2 (Drosophila)
233727	120114	hCG1642212.3	FAT3	FAT tumor suppressor homolog 3 (Drosophila)
117335	79633	hCG2042809	FAT4	FAT tumor suppressor homolog 4 (Drosophila)
131034	79633	hCG2042809	FAT4	FAT tumor suppressor homolog 4 (Drosophila)
169911	79633	hCG2042809	FAT4	FAT tumor suppressor homolog 4 (Drosophila)
188754	79633	hCG2042809	FAT4	FAT tumor suppressor homolog 4 (Drosophila)
149049	2192	hCG15599.3	FBLN1	fibulin 1
166297	2199	null	FBLN2	fibulin 2
212132	10516	hCG21251.3	FBLN5	fibulin 5
147111	2200	hCG38745.3	FBN1	fibrillin 1 (Marfan syndrome)
124416	2201	hCG1981155	FBN2	fibrillin 2 (congenital contractural arachnodactyly)
160762	84467	hCG1811320.3	FBN3	fibrillin 3
204297	83953	hCG1658516.3	FCAMR	Fc receptor, IgA, IgM, high affinity
129653	2204	hCG20262.3	FCAR	Fc fragment of IgA, receptor for
163064	2204	hCG20262.3	FCAR	Fc fragment of IgA, receptor for
216239	2205	hCG39426.3	FCER1A	Fc fragment of IgE, high affinity I, receptor for; alpha polypeptide
112884	2207	hCG2039142	FCER1G	Fc fragment of IgE, high affinity I, receptor for; gamma polypeptide
153297	2207	hCG2039142	FCER1G	Fc fragment of IgE, high affinity I, receptor for; gamma polypeptide
103950	2208	hCG65710.3	FCER2	Fc fragment of IgE, low affinity II, receptor for (CD23A)
118361	8857	hCG1811266.1	FCGBP	Fc fragment of IgG binding protein
192630	2213	hCG14693.4	FCGR2B	Fc fragment of IgG, low affinity IIb, receptor (CD32)
204612	2213	hCG14693.4	FCGR2B	Fc fragment of IgG, low affinity IIb, receptor (CD32)
127007	9103 2212	null	FCGR2C FCGR2A	Fc fragment of IgG, low affinity IIa, receptor (CD32)
121117	2217	hCG1998059	FCGRT	Fc fragment of IgG, receptor, transporter, alpha
140760	23149	hCG2000568	FCHO1	FCH domain only 1
168389	115548	hCG1758791.2	FCHO2	FCH domain only 2
123595	2219	null	FCN1	ficolin (collagen/fibrinogen domain containing) 1
120228	2220	hCG18790.3	FCN2	ficolin (collagen/fibrinogen domain containing lectin) 2 (hucolin)
225677	2220	hCG18790.3	FCN2	ficolin (collagen/fibrinogen domain containing lectin) 2 (hucolin)
140258	8547	hCG19629.2	FCN3	ficolin (collagen/fibrinogen domain containing) 3 (Hakata antigen)
205295	115350	hCG39952.3	FCRL1	Fc receptor-like 1
214605	79368	hCG1778713.4	FCRL2	Fc receptor-like 2
227891	79368	hCG1778713.4	FCRL2	Fc receptor-like 2
200756	115352	hCG1775243.3	FCRL3	Fc receptor-like 3

109242	83417 hCG1994902	FCRL4	Fc receptor-like 4
133498	83416 hCG39827.3	FCRL5	Fc receptor-like 5
194394	83416 hCG39827.3	FCRL5	Fc receptor-like 5
110709	84824 hCG1641577.3	FCRLM1	Fc receptor-like and mucin-like 1
173350	127943 hCG1642599.2	FCRLM2	Fc receptor-like and mucin-like 2
148249	2243 hCG1744100.1	FGA	fibrinogen alpha chain
127594	10875 hCG39113.2	FGL2	fibrinogen-like 2
196248	90011 hCG1648275.4	FLJ00060	null
103654	79875 null	FLJ13710	null
151939	79875 hCG1811982.1	FLJ13710	null
104533	79978 hCG23580.2	FLJ22814	null
116584	222256 hCG1811544.2	FLJ23834	null
164060	143872 hCG40515.3	FLJ32810	null
209913	143872 hCG40515.3	FLJ32810	null
180026	201633 hCG18876.2	FLJ39873	null
170705	388512 hCG2036612	FLJ45910	null
125618	2331 hCG24329.2	FMOD	fibromodulin
136386	2335 hCG1813428.3	FN1	fibronectin 1
205205	5045 hCG32577.2	FURIN	furin (paired basic amino acid cleaving enzyme)
183719	2697 hCG18153.2	GJA1	gap junction protein, alpha 1, 43kDa (connexin 43)
177186	81025 hCG1786672.2	GJA10	gap junction protein, alpha 10, 59kDa
176726	57165 hCG2036603	GJA12	gap junction protein, alpha 12, 47kDa
175153	2700 hCG20494.1	GJA3	gap junction protein, alpha 3, 46kDa (connexin 46)
202429	2701 hCG37067.2	GJA4	gap junction protein, alpha 4, 37kDa (connexin 37)
173753	2702 hCG1770483.2	GJA5	gap junction protein, alpha 5, 40kDa (connexin 40)
155832	10052 hCG1643215.1	GJA7	gap junction protein, alpha 7, 45kDa (connexin 45)
184298	2703 hCG1646384.3	GJA8	gap junction protein, alpha 8, 50kDa (connexin 50)
104709	2705 hCG19957.2	GJB1	gap junction protein, beta 1, 32kDa (connexin 32, Charcot-Marie-Tooth neuropathy, X-linked)
193823	2706 hCG18943.3	GJB2	gap junction protein, beta 2, 26kDa (connexin 26)
162518	2707 hCG1783754.2	GJB3	gap junction protein, beta 3, 31kDa (connexin 31)
227121	2707 hCG1783754.2	GJB3	gap junction protein, beta 3, 31kDa (connexin 31)
219107	127534 hCG2032177.1	GJB4	gap junction protein, beta 4 (connexin 30.3)
191162	2709 hCG1783753.2	GJB5	gap junction protein, beta 5 (connexin 31.1)
100160	10804 hCG1643047.3	GJB6	gap junction protein, beta 6 (connexin 30)
225135	125111 hCG2007564.1	GJC1	gap junction protein, chi 1, 31.9kDa (connexin 31.9)
228981	349149 hCG2023618	GJE1	gap junction protein, epsilon 1, 29kDa
177639	2812 hCG2002594	GP1BB	glycoprotein Ib (platelet), beta polypeptide
176187	51206 hCG20263.3	GP6	glycoprotein VI (platelet)
112443	2815 hCG18658.2	GP9	glycoprotein IX (platelet)
141331	10223 hCG37989.3	GPA33	glycoprotein A33 (transmembrane)
162415	2817 hCG20534.3	GPC1	glypican 1
128434	221914 hCG2023609	GPC2	glypican 2 (cerebroglycan)
103547	2719 hCG14619.3	GPC3	glypican 3
191994	2239 hCG16065.4	GPC4	glypican 4

108335	2262	hCG32231.4	GPC5	glypican 5
202116	2262	hCG32231.4	GPC5	glypican 5
183836	10082	hCG2039664	GPC6	glypican 6
145583	2995	hCG40440.3	GYPC	glycophorin C (Gerbich blood group)
127294	1404	hCG39210.3	HAPLN1	hyaluronan and proteoglycan link protein 1
149878	60484	hCG1644877.3	HAPLN2	hyaluronan and proteoglycan link protein 2
146996	145864	hCG28642.2	HAPLN3	hyaluronan and proteoglycan link protein 3
147772	404037	hCG2044078 hCG2001401.1	HAPLN4	hyaluronan and proteoglycan link protein 4
142523	26762	hCG1647365.2	HAVCR1	hepatitis A virus cellular receptor 1
174455	84868	hCG1782242.3	HAVCR2	hepatitis A virus cellular receptor 2
114296	50863	hCG1811666.1	HNT	null
151627	29094	hCG1986781	HSPC159	null
190390	3339	hCG1981506	HSPG2	heparan sulfate proteoglycan 2 (perlecan)
126663	3381	hCG38540.2	IBSP	integrin-binding sialoprotein (bone sialoprotein, bone sialoprotein II)
109070	3383	hCG28476.2	ICAM1	intercellular adhesion molecule 1 (CD54), human rhinovirus receptor
155212	3384	hCG41817.4	ICAM2	intercellular adhesion molecule 2
131931	3385	hCG2033729	ICAM3	intercellular adhesion molecule 3
158761	3386	hCG28480.3	ICAM4	intercellular adhesion molecule 4, Landsteiner-Wiener blood group
116818	7087	hCG28481.3	ICAM5	intercellular adhesion molecule 5, telencephalin
202509	3484	hCG2003734	IGFBP1	insulin-like growth factor binding protein 1
161608	3485	hCG16383.3	IGFBP2	insulin-like growth factor binding protein 2, 36kDa
104923	3486	hCG1735376.2	IGFBP3	insulin-like growth factor binding protein 3
207755	3487	hCG1643839.3	IGFBP4	insulin-like growth factor binding protein 4
170211	3488	hCG16384.2	IGFBP5	insulin-like growth factor binding protein 5
150353	3489	hCG43768.2	IGFBP6	insulin-like growth factor binding protein 6
113811	3495	hCG2038940 hCG2038937	IGHD	immunoglobulin heavy constant delta
123277	3495	hCG2038940	IGHD	immunoglobulin heavy constant delta
134477	3495	hCG2029986.1	IGHD	immunoglobulin heavy constant delta
184949	3495	hCG2029986.1	IGHD	immunoglobulin heavy constant delta
116610	3500	hCG1773300.3	IGHG1	immunoglobulin heavy constant gamma 1 (G1m marker)
147857	3500	hCG1812897.2	IGHG1	immunoglobulin heavy constant gamma 1 (G1m marker)
191229	3500	hCG2038926	IGHG1	immunoglobulin heavy constant gamma 1 (G1m marker)
121996	3502 3500 3507 3501 479	hCG2029987.1 hCG2038936 hCG2003479	IGHG3 IGHG1 IGHM IGHG2	immunoglobulin heavy constant gamma 3 (G3m marker) immunoglobulin heavy constant gamma 1 (G1m marker) immunoglobulin heavy constant mu immunoglobulin heavy constant gamma 2 (G2m marker)
123516	3507	hCG2042717	IGHM	immunoglobulin heavy constant mu
143582	3507	hCG1773549.4	IGHM	immunoglobulin heavy constant mu
165161	3507	hCG1686394.2	IGHM	immunoglobulin heavy constant mu
178394	3507	hCG2038942	IGHM	immunoglobulin heavy constant mu
179702	3507	hCG1793614.3	IGHM	immunoglobulin heavy constant mu
214404	388077	hCG1728627.1	IGHV1OR15-1	immunoglobulin heavy variable 1/OR15-1
188579	28303 390531	hCG2038937 hCG2003024	IGHV3OR16-13 VSI7	immunoglobulin heavy variable 3/OR16-13 V-set and immunoglobulin domain containing 7
199327	28378	hCG1773558.2	IGHV7-81	immunoglobulin heavy variable 7-81

112729	3514 28299	hCG1980528.1	IGKC IGKV1-5	immunoglobulin kappa constant immunoglobulin kappa variable 1-5
181039	28831	hCG2029211.2	IGLJ3	immunoglobulin lambda joining 3
172692	28831 28793 3537 3538 3535	hCG2040026.1	IGLJ3 IGLV3-25 IGLC1 IGLC2 IGL@	immunoglobulin lambda joining 3 immunoglobulin lambda variable 3-25 immunoglobulin lambda constant 1 (Mcg marker) immunoglobulin lambda constant 2 (Kern-Oz- marker) immunoglobulin lambda locus
141999	3543	hCG40362.3	IGLL1	immunoglobulin lambda-like polypeptide 1
171778	3543	hCG40362.3	IGLL1	immunoglobulin lambda-like polypeptide 1
172554	28815 28786 3537 3538	hCG2040018.1	IGLV2-14 IGLV4-3 IGLC1 IGLC2	immunoglobulin lambda variable 2-14 immunoglobulin lambda variable 4-3 immunoglobulin lambda constant 1 (Mcg marker) immunoglobulin lambda constant 2 (Kern-Oz- marker)
125743	28797 28831	hCG1782424.3	IGLV3-19 IGLJ3	immunoglobulin lambda variable 3-19 immunoglobulin lambda joining 3
108442	28793	hCG1782425.3	IGLV3-25	immunoglobulin lambda variable 3-25
183393	285313	hCG20916.3	IGSF10	immunoglobulin superfamily, member 10
164847	152404	hCG22570.5	IGSF11	immunoglobulin superfamily, member 11
169981	57549	hCG39736.4	IGSF9	immunoglobulin superfamily, member 9
105772	3594	hCG36879.4	IL12RB1	interleukin 12 receptor, beta 1
226063	3594	hCG36879.4	IL12RB1	interleukin 12 receptor, beta 1
160329	3611	hCG24084.3	ILK	integrin-linked kinase
194575	3617	hCG32995.2	IMPG1	interphotoreceptor matrix proteoglycan 1
154353	50939	hCG39282.4	IMPG2	interphotoreceptor matrix proteoglycan 2
146438	10207	hCG1811269.2	INADL	InaD-like (Drosophila)
116215	8515	hCG37373.3	ITGA10	integrin, alpha 10
200889	22801	hCG23809.3	ITGA11	integrin, alpha 11
223442	3673	hCG40683.3	ITGA2	integrin, alpha 2 (CD49B, alpha 2 subunit of VLA-2 receptor)
204518	3674	hCG1818596.1	ITGA2B	integrin, alpha 2b (platelet glycoprotein IIb of IIb/IIIa complex, antigen CD41B)
119181	3675	hCG27414.3	ITGA3	integrin, alpha 3 (antigen CD49C, alpha 3 subunit of VLA-3 receptor)
139326	3676	hCG1811925.1	ITGA4	integrin, alpha 4 (antigen CD49D, alpha 4 subunit of VLA-4 receptor)
145228	3678	hCG21939.2	ITGA5	integrin, alpha 5 (fibronectin receptor, alpha polypeptide)
132194	3655	hCG19171.3	ITGA6	integrin, alpha 6
185859	3679	hCG20745.2	ITGA7	integrin, alpha 7
195887	8516	hCG22614.2	ITGA8	integrin, alpha 8
157432	3680	hCG17143.3	ITGA9	integrin, alpha 9
177113	3681	hCG168149.2	ITGAD	integrin, alpha D
208380	3681	hCG168149.2	ITGAD	integrin, alpha D
137521	3682	hCG33203.3	ITGAE	integrin, alpha E (antigen CD103, human mucosal lymphocyte antigen 1; alpha polypeptide)
150031	3683	hCG18670.3	ITGAL	integrin, alpha L (antigen CD11A (p180), lymphocyte function-associated antigen 1; alpha polypeptide)
148765	3684	hCG1998613	ITGAM	integrin, alpha M (complement component receptor 3, alpha; also known as CD11b (p170), macrophage antigen alpha polypeptide)
177019	3684	null	ITGAM	integrin, alpha M (complement component receptor 3, alpha; also known as CD11b (p170), macrophage antigen alpha polypeptide)
183759	3684	hCG1998613	ITGAM	integrin, alpha M (complement component receptor 3, alpha; also known as CD11b (p170), macrophage antigen alpha polypeptide)

192502	3684 hCG1998613	ITGAM	integrin, alpha M (complement component receptor 3, alpha; also known as CD11b (p170), macrophage antigen alpha polypeptide)
117958	3685 hCG21243.2	ITGAV	integrin, alpha V (vitronectin receptor, alpha polypeptide, antigen CD51)
193647	3687 hCG1789754.2	ITGAX	integrin, alpha X (antigen CD11C (p150), alpha polypeptide)
197265	3687 null	ITGAX	integrin, alpha X (antigen CD11C (p150), alpha polypeptide)
230552	3687 null	ITGAX	integrin, alpha X (antigen CD11C (p150), alpha polypeptide)
187625	3688 hCG2001034 hCG2017385	ITGB1	integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, MSK12)
191262	3688 hCG2017385	ITGB1	integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, MSK12)
193585	3689 hCG401305.4	ITGB2	integrin, beta 2 (antigen CD18 (p95), lymphocyte function-associated antigen 1; macrophage antigen 1 (mac-1) beta subunit)
192782	3690 hCG27604.2	ITGB3	integrin, beta 3 (platelet glycoprotein IIIa, antigen CD61)
200414	3693 hCG17803.3	ITGB5	integrin, beta 5
100436	3694 hCG40675.2	ITGB6	integrin, beta 6
166101	3695 hCG43756.2	ITGB7	integrin, beta 7
202580	3696 hCG37311.3	ITGB8	integrin, beta 8
141969	58494 hCG401152.3	JAM2	junctional adhesion molecule 2
100510	83700 hCG37606.3	JAM3	junctional adhesion molecule 3
121647	3728 hCG1771506.1	JUP	junction plakoglobin
147107	11081 hCG22819.2	KERA	keratocan
208473	23249 hCG17390.2	KIAA0960	null
107771	80731 hCG1812660.1	KIAA1679	null
113837	3805 null	KIR2DL4	killer cell immunoglobulin-like receptor, two domains, long cytoplasmic tail, 4
202768	3805 hCG2039724.1	KIR2DL4	killer cell immunoglobulin-like receptor, two domains, long cytoplasmic tail, 4
109451	57292 3803 553128 hCG2036712	KIR2DL5A KIR2DL2 KIR2DL5B	killer cell immunoglobulin-like receptor, two domains, long cytoplasmic tail, 5A killer cell immunoglobulin-like receptor, two domains, long cytoplasmic tail, 2 killer cell immunoglobulin-like receptor, two domains, long cytoplasmic tail, 5B
111378	3811 hCG2039725.1	KIR3DL1	killer cell immunoglobulin-like receptor, three domains, long cytoplasmic tail, 1
138026	3811 hCG2039725.1	KIR3DL1	killer cell immunoglobulin-like receptor, three domains, long cytoplasmic tail, 1
195291	3811 null	KIR3DL1	killer cell immunoglobulin-like receptor, three domains, long cytoplasmic tail, 1
223977	115653 hCG1732232.2	KIR3DL3	killer cell immunoglobulin-like receptor, three domains, long cytoplasmic tail, 3
142892	55243 hCG39953.3	KIRREL	kin of IRRE like (Drosophila)
161081	84063 hCG23603.2	KIRREL2	kin of IRRE like 2 (Drosophila)
168224	84623 hCG2032836.1	KIRREL3	kin of IRRE like 3 (Drosophila)
109549	4254 hCG26603.2	KITLG	KIT ligand
185131	3821 hCG95764.3	KLRC1	killer cell lectin-like receptor subfamily C, member 1
109992	3822 null	KLRC2	killer cell lectin-like receptor subfamily C, member 2
129345	3823 null	KLRC3	killer cell lectin-like receptor subfamily C, member 3
188783	8302 hCG2009644	KLRC4	killer cell lectin-like receptor subfamily C, member 4
213055	8302 22914 hCG2009644	KLRC4 KLRK1	killer cell lectin-like receptor subfamily C, member 4 killer cell lectin-like receptor subfamily K, member 1
204942	3824 hCG37262.3	KLRD1	killer cell lectin-like receptor subfamily D, member 1
167353	3897 hCG39212.2	L1CAM	L1 cell adhesion molecule

120574	3903 hCG2009346.1	LAIR1	leukocyte-associated Ig-like receptor 1
173782	3903 hCG2009346.1	LAIR1	leukocyte-associated Ig-like receptor 1
203708	3904 hCG1732218.2	LAIR2	leukocyte-associated Ig-like receptor 2
105409	284217 hCG1781103.3	LAMA1	laminin, alpha 1
173221	284217 null	LAMA1	laminin, alpha 1
149994	3908 hCG21784.2	LAMA2	laminin, alpha 2 (merosin, congenital muscular dystrophy)
131641	3909 hCG1811249.2	LAMA3	laminin, alpha 3
101059	3910 hCG32955.4	LAMA4	laminin, alpha 4
201249	3911 hCG41774.3	LAMA5	laminin, alpha 5
117740	3912 hCG17112.2	LAMB1	laminin, beta 1
176679	3913 hCG96721.3	LAMB2	laminin, beta 2 (laminin S)
176623	3914 hCG21281.3	LAMB3	laminin, beta 3
124914	22798 hCG1811708.1	LAMB4	laminin, beta 4
180055	3915 hCG40729.2	LAMC1	laminin, gamma 1 (formerly LAMB2)
201627	3918 hCG40730.3	LAMC2	laminin, gamma 2
111334	10319 hCG30194.3	LAMC3	laminin, gamma 3
197253	64175 hCG23171.2	LEPRE1	leucine proline-enriched proteoglycan (leprecan) 1
121792	55214 hCG1811845.1	LEPREL1	leprecan-like 1
134755	55214 hCG1811845.1	LEPREL1	leprecan-like 1
170997	10536 hCG2039832	LEPREL2	leprecan-like 2
151835	3956 hCG41838.4	LGALS1	lectin, galactoside-binding, soluble, 1 (galectin 1)
134359	85329 hCG21321.4	LGALS12	lectin, galactoside-binding, soluble, 12 (galectin 12)
164746	29124 hCG43351.3	LGALS13	lectin, galactoside-binding, soluble, 13 (galectin 13)
205962	56891 hCG1645558.3	LGALS14	lectin, galactoside-binding, soluble, 14
112586	3957 hCG41839.3	LGALS2	lectin, galactoside-binding, soluble, 2 (galectin 2)
179836 3958 81625	hCG22119.3	LGALS3 GALIG	lectin, galactoside-binding, soluble, 3 (galectin 3)
185853	3959 hCG1776358.1	LGALS3BP	lectin, galactoside-binding, soluble, 3 binding protein
207509	3960 hCG20525.3	LGALS4	lectin, galactoside-binding, soluble, 4 (galectin 4)
130092	3963 hCG1776519.3 hCG42850.5	LGALS7	lectin, galactoside-binding, soluble, 7 (galectin 7)
151391	3964 hCG23447.4	LGALS8	lectin, galactoside-binding, soluble, 8 (galectin 8)
159046	3965 null	LGALS9	lectin, galactoside-binding, soluble, 9 (galectin 9)
195916	11027 hCG19661.4	LILRA2	leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 2
102060	11026 hCG2043692	LILRA3	leukocyte immunoglobulin-like receptor, subfamily A (without TM domain), member 3
156072	23547 null	LILRA4	leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 4
176231	353514 hCG2009348.1	LILRA5	leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 5
183963	10859 hCG20655.3	LILRB1	leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 1
212855	10859 11024 null	LILRB1 LILRA1	leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 1 leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 1
150853	10288 hCG2041477.1	LILRB2	leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 2
113190	10288 11025 hCG2043691	LILRB2 LILRB3	leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 2 leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 3

183799	10990	hCG2039978.1	LILRB5	leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 5
126995	3982	hCG91964.3	LIM2	lens intrinsic membrane protein 2, 19kDa
183828	8825	hCG1774002.2	LIN7A	lin-7 homolog A (C. elegans)
102972	64130	hCG16223.4	LIN7B	lin-7 homolog B (C. elegans)
217099	55327	hCG27394.3	LIN7C	lin-7 homolog C (C. elegans)
137750	84708	hCG21520.3	LNK1	ligand of numb-protein X 1
189271	84708	hCG21520.3	LNK1	ligand of numb-protein X 1
146114	222484	hCG30819.3	LNK2	ligand of numb-protein X 2
105532	126987	hCG2040319	LOC126987	null
225218	131149	hCG2036643	LOC131149	null
166736	148003	hCG1776529.2	LOC148003	null
188269	253012	null	LOC253012	null
228470	253012	hCG2023308	LOC253012	null
191927	283804	null	LOC283804	null
183890	284623	hCG1645093.3	LOC284623	null
208099	389174	hCG1786642.1	LOC389174	null
106052	390299	hCG38093.3	LOC390299	null
235383	390712	hCG1793095.2	LOC390712	null
107637	401393 402571	hCG1770601.2	LOC401393 LOC402571	null
189914	401845	hCG1742309.1	LOC401845	null
235488	401847 339221	hCG2036665 hCG1793095.2	LOC401847 ENPP7	ectonucleotide pyrophosphatase/phosphodiesterase 7
175634	439957 389953	hCG1742442.1	LOC439957 LOC389953	null
125922	440508	hCG2038374.1 hCG2040537	LOC440508	null
136617	440508	hCG2038374.1 hCG2040438.1	LOC440508	null
235409	440557 1953	hCG2005209	LOC440557 EGFL3	EGF-like-domain, multiple 3
179815	440607 2209	null	LOC440607 FCGR1A	Fc fragment of IgG, high affinity Ia, receptor (CD64)
146353	440786	hCG1997566	LOC440786	null
183428	440786	hCG1642538.2	LOC440786	null
147635	441789	hCG1639960.4	LOC441789	null
170396	442654	hCG18434.3	LOC442654	null
185313	594834 143162 594835	hCG1725443.3	LOC594834 FRMPD2	FERM and PDZ domain containing 2
203565	91316	hCG1812916.2	LOC91316	null
123366	96610	hCG91933.4	LOC96610	null
195189	96610	hCG91933.4	LOC96610	null
154117	131578	hCG2043616	LRRC15	leucine rich repeat containing 15
231921	131578	hCG2043616	LRRC15	leucine rich repeat containing 15
128091	4045	hCG2022843.1	LSAMP	limbic system-associated membrane protein
119769	4052	hCG1988218.1	LTBP1	latent transforming growth factor beta binding protein 1
116441	4053	hCG1811460.1	LTBP2	latent transforming growth factor beta binding protein 2
188681	4053	hCG1811460.1	LTBP2	latent transforming growth factor beta binding protein 2
129768	4054	hCG1812642.1	LTBP3	latent transforming growth factor beta binding protein 3
162965	8425	hCG20254.3	LTBP4	latent transforming growth factor beta binding protein 4
178828	4059	hCG22133.3	LU	Lutheran blood group (Auberger b antigen included)
196622	4060	hCG24108.2	LUM	lumican

170428	4063	hCG27852.3	LY9	lymphocyte antigen 9
117425	4069 10859	hCG24462.3	LYZ LILRB1	lysozyme (renal amyloidosis) leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 1
109132	4099	hCG23606.3	MAG	myelin associated glycoprotein
151953	4099	hCG23606.3	MAG	myelin associated glycoprotein
132878	4099 933	hCG23580.2	MAG CD22	myelin associated glycoprotein CD22 antigen
110909	9223	hCG1777570.2	MAGI1	membrane associated guanylate kinase, WW and PDZ domain containing 1
105744	9863	hCG1643736.3	MAGI2	membrane associated guanylate kinase, WW and PDZ domain containing 2
208911	9863	hCG2023734	MAGI2	membrane associated guanylate kinase, WW and PDZ domain containing 2
210254	9863	hCG40263.3	MAGI2	membrane associated guanylate kinase, WW and PDZ domain containing 2
109989	260425	hCG2043269	MAGI3	membrane associated guanylate kinase, WW and PDZ domain containing 3
224893	260425	hCG2043269	MAGI3	membrane associated guanylate kinase, WW and PDZ domain containing 3
162270	4146	hCG15912.4	MATN1	matrilin 1, cartilage matrix protein
232416	4146	hCG2033299	MATN1	matrilin 1, cartilage matrix protein
167316	4147	hCG17257.3	MATN2	matrilin 2
116706	4148	hCG32088.2	MATN3	matrilin 3
172051	8785	hCG38364.4	MATN4	matrilin 4
165409	4162	hCG15250.2	MCAM	melanoma cell adhesion molecule
125929	84466	hCG1812094.1	MEGF10	null
135724	84465	hCG1811977.2	MEGF11	null
162212	4237	hCG25122.2	MFAP2	microfibrillar-associated protein 2
132629	4238	hCG1820732.1	MFAP3	microfibrillar-associated protein 3
218511	9848	hCG17310.3	MFAP3L	microfibrillar-associated protein 3-like
151056	4239	hCG30687.3	MFAP4	microfibrillar-associated protein 4
112547	8076	hCG25217.3	MFAP5	microfibrillar associated protein 5
144588	4240	hCG26628.2	MFGE8	milk fat globule-EGF factor 8 protein
218598	112812	hCG2033729	MGC19604	null
118811	283650	hCG2029251.1	MGC27165	null
220939	283650 3493 3494	hCG1988537.1	MGC27165 IGHA1 GHA2	immunoglobulin heavy constant alpha 1 immunoglobulin heavy constant alpha 2 (A2m marker)
232718	338872	hCG2033348.1	MGC48915	null
121617	4256	hCG24416.2	MGP	matrix Gla protein
190435	4256	hCG24416.2	MGP	matrix Gla protein
102347	117153	hCG1785689.1	MIA2	melanoma inhibitory activity 2
224708	117153	hCG1785689.1	MIA2	melanoma inhibitory activity 2
128509	22915	hCG38707.3	MMRN1	multimerin 1
155462	79812	hCG23267.4	MMRN2	multimerin 2
161318	8777	hCG27257.3	MPDZ	multiple PDZ domain protein
184780	401827	hCG1644790.2	MPFL	null
139073	4359	hCG37881.3	MPZ	myelin protein zero (Charcot-Marie-Tooth neuropathy 1B)
206371	9019	hCG42390.4	MPZL1	myelin protein zero-like 1
208490	9019	hCG42390.4	MPZL1	myelin protein zero-like 1
182643	2206	hCG40395.2	MS4A2	membrane-spanning 4-domains, subfamily A, member 2 (Fc fragment of IgE, high affinity I, receptor for; beta polypeptide)
147075	10232	hCG22420.3	MSLN	mesothelin

110673	283463	hCG1806044.2	MUC19	mucin 19
115305	283463	hCG1818434.2	MUC19	mucin 19
189742	283463	hCG2036593	MUC19	mucin 19
198392	4583	hCG1778312.2	MUC2	mucin 2, intestinal/tracheal
101157	4585	hCG1994601	MUC4	mucin 4, tracheobronchial
145989	4585	null	MUC4	mucin 4, tracheobronchial
235587	4585	hCG1994601	MUC4	mucin 4, tracheobronchial
112894	4586	hCG1778310.1	MUC5AC	mucin 5, subtypes A and C, tracheobronchial/gastric
136305	4586	null	MUC5AC	mucin 5, subtypes A and C, tracheobronchial/gastric
173699	4587	hCG1993440	MUC5B	mucin 5, subtype B, tracheobronchial
113554	4588	null	MUC6	mucin 6, gastric
182122	4588	hCG1778326.1	MUC6	mucin 6, gastric
179125	53841	hCG1778294.1	MUCDHL	mucin and cadherin-like
139495	25878	hCG1981880	MXRA5	matrix-remodelling associated 5
101574	4638	hCG2022707	MYLK	myosin, light polypeptide kinase
130884	4684	hCG2032571.1	NCAM1	neural cell adhesion molecule 1
172702	4685	hCG2007901.1	NCAM2	neural cell adhesion molecule 2
199050	4685	hCG2007901.1	NCAM2	neural cell adhesion molecule 2
142840	23154	hCG38291.3	NCDN	neurochondrin
164589	9437	hCG19670.3	NCR1	natural cytotoxicity triggering receptor 1
111793	257194	hCG1640013.4	NEGR1	neuronal growth regulator 1
211059	257194	hCG1640013.4	NEGR1	neuronal growth regulator 1
186099	4756	hCG2003750	NEO1	neogenin homolog 1 (chicken)
193005	23114	hCG16415.3	NFASC	neurofascin homolog (chicken)
233377	23114	hCG2025385	NFASC	neurofascin homolog (chicken)
200980	4811	hCG25457.3	NID1	nidogen 1
108491	22795	hCG20960.2	NID2	nidogen 2 (osteonidogen)
181718	4814	hCG18015.3	NINJ1	ninjurin 1
184147	4815	hCG25274.2	NINJ2	ninjurin 2
110809	22871	hCG2021529.1	NLGN1	neuroligin 1
180149	57555	hCG42031.5	NLGN2	neuroligin 2
179213	54413	hCG1724001.2	NLGN3	neuroligin 3
146373	57502	hCG1982900.2	NLGN4X	neuroligin 4, X-linked
215545	22829	hCG1988457.1	NLGN4Y	neuroligin 4, Y-linked
203782	57722	hCG23665.2	NOPE	null
126517	4851	hCG1818285.2	NOTCH1	Notch homolog 1, translocation-associated (Drosophila)
142906	4853	hCG37617.3	NOTCH2	Notch homolog 2 (Drosophila)
128130	4853 388677	null	NOTCH2 NOTCH2NL	Notch homolog 2 (Drosophila) Notch homolog 2 (Drosophila) N-terminal like
130268	4853 388677	null	NOTCH2 NOTCH2NL	Notch homolog 2 (Drosophila) Notch homolog 2 (Drosophila) N-terminal like
149230	4854	hCG38585.3	NOTCH3	Notch homolog 3 (Drosophila)
104948	4868	hCG2042774	NPHS1	nephrosis 1, congenital, Finnish type (nephrin)
179656	255743	hCG2030518.1	NPNT	nephronectin
219954	255743	hCG2030518.1	NPNT	nephronectin

106462	4897 hCG17111.4	NRCAM	neuronal cell adhesion molecule
204811	9378 hCG1817742.1	NRXN1	neurexin 1
208420	9379 hCG1810991.1	NRXN2	neurexin 2
139725	9369 hCG1811459.2	NRXN3	neurexin 3
156427	9369 hCG1811459.2	NRXN3	neurexin 3
135850	9423 hCG1811055.1	NTN1	netrin 1
211806	4917 hCG32964.2	NTN2L	netrin 2-like (chicken)
185137	59277 hCG33113.3	NTN4	netrin 4
200177	22854 hCG1811122.1	NTNG1	netrin G1
147584	84628 hCG31462.3	NTNG2	netrin G2
102071 null	hCG2039487	null	null
102086 null	hCG1737355.4	null	null
102721 null	hCG1793614.3	null	null
102778 null	hCG1793766.2	null	null
105086 null	hCG2041342	null	null
107477 null	hCG2001494.2	null	null
107676 null	hCG1686410.4	null	null
107967 null	hCG1685759.3	null	null
108493 null	hCG2029236.1	null	null
108546 null	hCG1737376.3	null	null
108776 null	hCG2038931.1	null	null
109112 null	hCG2041607.1	null	null
109596 null	hCG1812158.2	null	null
111534 null	hCG1794504.3	null	null
112906 null	hCG2039499	null	null
112952 null	hCG1737360.3	null	null
113298 null	hCG19987.4	null	null
113639 null	hCG2041413	null	null
114396 null	hCG1723911.2	null	null
114413 null	hCG1650725.3	null	null
115430 null	hCG1812151.2	null	null
117977 null	hCG1812137.2	null	null
118448 null	hCG2040022.1	null	null
120363 null	hCG1741832.4	null	null
121378 null	hCG1737378.3	null	null
123649 null	hCG1812116.2	null	null
125786 null	hCG1652195.2	null	null
125874 null	hCG1642807.3	null	null
126154 null	hCG2040640.1	null	null
126586 null	hCG2038930	null	null
126783 null	hCG1812141.2	null	null
126918 null	hCG37525.2	null	null
128872 null	hCG1737367.3	null	null
129252 null	hCG2039476 hCG2039488 hCG173736	null	null
130687 null	hCG2003544	null	null

132779 null	hCG2039494.1 hCG2002978.1	null	null
132946 null	hCG1723904.3	null	null
133305 null	hCG1732230.3	null	null
133318 null	hCG1773460.3	null	null
134361 null	hCG2039505	null	null
134541 null	hCG1791795.2	null	null
134542 null	hCG1746482.2	null	null
135354 null	hCG1749806.2	null	null
135488 null	hCG1778883.4	null	null
135954 null	hCG1685755.3	null	null
136455 null	hCG2014363.1	null	null
136785 null	hCG2042707	null	null
136826 null	hCG2039486	null	null
138080 null	hCG2038932	null	null
139777 null	hCG1737379.3	null	null
141031 null	hCG2014363.1	null	null
141132 null	hCG1812069.2	null	null
142163 null	hCG1812140.2	null	null
143028 null	hCG2039526	null	null
143812 null	hCG2043237	null	null
143822 null	hCG1686194.2	null	null
143962 null	hCG1745487.2	null	null
145456 null	hCG2038918	null	null
146688 null	hCG1812142.2	null	null
149336 null	hCG1737365.3	null	null
151826 null	hCG1812939.2	null	null
152208 null	hCG1812772.3	null	null
152990 null	hCG2043208	null	null
153177 null	hCG2040257	null	null
154783 null	hCG2038943	null	null
155187 null	hCG2040019.1	null	null
156048 null	hCG1782423.3	null	null
158059 null	hCG2001501.1	null	null
159221 null	hCG1746206.2	null	null
160175 null	hCG1812125.2	null	null
161179 null	hCG2039475	null	null
161488 null	hCG2042722	null	null
162365 null	hCG2042833	null	null
163325 null	hCG2039497	null	null
163856 null	hCG1812133.2	null	null
164834 null	hCG2039504	null	null
165263 null	hCG2039696	null	null
165736 null	hCG1980528.1	null	null
166879 null	hCG1788965.4	null	null
168085 null	hCG2001460.1	null	null

168964	null	hCG1812916.2	null	null
169042	null	hCG2040636	null	null
169595	null	hCG2001464.2 hCG2001453.1	null	null
171078	null	hCG1737367.3 hCG2039508	null	null
171156	null	hCG2043242 hCG1782423.3	null	null
171594	null	hCG2002964.1	null	null
172955	null	hCG1789507.3	null	null
173905	null	hCG1812939.2 hCG1737385.3	null	null
175627	null	hCG2039482 hCG2039484	null	null
176977	null	hCG1686079.4	null	null
177583	null	hCG1980528.1	null	null
178480	null	hCG2041292.1	null	null
179234	null	hCG91935.4	null	null
180081	null	hCG2033673.1	null	null
180452	null	hCG2014363.1	null	null
180759	null	hCG1821225.2	null	null
180795	null	hCG2039492	null	null
181278	null	hCG1749806.2	null	null
181496	null	hCG2039490.1	null	null
181654	null	hCG2041210.1	null	null
181990	null	hCG2038939	null	null
182044	null	hCG2014128.1	null	null
182098	null	hCG1641609.2	null	null
184105	null	hCG2041221.1	null	null
185597	null	hCG1792523.3	null	null
187056	null	hCG2039496	null	null
187428	null	hCG1646346.4	null	null
187836	null	hCG2002981.1	null	null
188651	null	hCG1773456.3	null	null
189056	null	hCG1737371.3	null	null
189409	null	hCG1794860.3	null	null
189504	null	hCG1773460.3	null	null
190259	null	hCG1642698.4	null	null
190632	null	hCG1685763.3	null	null
192250	null	hCG2002980.1	null	null
192742	null	hCG2038941	null	null
192909	null	hCG2033675.1	null	null
192959	null	hCG2002958.1	null	null
193687	null	hCG2038923	null	null
194317	null	hCG1729900.1	null	null
194908	null	hCG2033671.1	null	null
198315	null	hCG2029256.2	null	null
198444	null	hCG1773462.4	null	null
198839	null	hCG2033671.1 hCG2039506	null	null
198859	null	hCG2039500	null	null

199303	null	hCG41214.4	null	null
201095	null	hCG1731877.3	null	null
202646	null	hCG1773456.3	null	null
204418	null	hCG1724275.3	null	null
204595	null	hCG1646420.1	null	null
205609	null	hCG2002986.2	null	null
205682	null	hCG1769458.2	null	null
206632	null	hCG2038924	null	null
206761	null	hCG2043257	null	null
208397	null	hCG1737363.3	null	null
209971	null	hCG2039509	null	null
212308	null	hCG2043266	null	null
212405	null	hCG2010499.1	null	null
213498	null	hCG1644548.4	null	null
218655	null	hCG2036731	null	null
219410	null	hCG2036696.1	null	null
222973	null	hCG2042405	null	null
223669	null	hCG2038939	null	null
229345	null	hCG1686409.3	null	null
229600	null	hCG1644325.2	null	null
230639	null	hCG2006266	null	null
230795	null	hCG1812150.2	null	null
231767	null	hCG1812130.1	null	null
231829	null	hCG2010526.1	null	null
233204	null	hCG1640134.3	null	null
233230	null	hCG21885.2	null	null
233771	null	hCG2043432	null	null
234484	null	hCG2014449.1	null	null
234910	null	hCG2043197	null	null
235353	null	hCG2010697.1	null	null
236107	null	hCG1794122.3	null	null
236534	null	hCG19326.2	null	null
236974	null	hCG1991431.1 hCG1729900.1 hCG164	null	null
237069	null	hCG1737330.1	null	null
108955	4950	hCG37070.2	OCLN	occludin
197167	10178	hCG2039411.1	ODZ1	odz, odd Oz/ten-m homolog 1(Drosophila)
232770	57451	hCG38403.3	ODZ2	odz, odd Oz/ten-m homolog 2 (Drosophila)
178643	55714	hCG2025760	ODZ3	odz, odd Oz/ten-m homolog 3 (Drosophila)
119908	26011	hCG2016781	ODZ4	odz, odd Oz/ten-m homolog 4 (Drosophila)
199889	26011	hCG2016781	ODZ4	odz, odd Oz/ten-m homolog 4 (Drosophila)
124380	4958	hCG28128.2	OMD	osteomodulin
108259	4978	hCG1811667.1	OPCML	opioid binding protein/cell adhesion molecule-like
169776	4983	hCG14944.2	OPHN1	oligophrenin 1
136287	126014	hCG20955.3	OSCAR	null
174318	126014	hCG20955.3	OSCAR	null

159546	146183	hCG2043047	OTOA	otoancorin
235100	146183	hCG2043047	OTOA	otoancorin
138764	89932	hCG21526.3	PAPLN	papilin, proteoglycan-like sulfated glycoprotein
116049	56288	hCG21413.3	PARD3	par-3 partitioning defective 3 homolog (C. elegans)
194369	50855	hCG2025821	PARD6A	par-6 partitioning defective 6 homolog alpha (C.elegans)
113036	84612	hCG37110.3	PARD6B	par-6 partitioning defective 6 homolog beta (C. elegans)
137704	84552	hCG1643224.2	PARD6G	par-6 partitioning defective 6 homolog gamma (C. elegans)
122520	5097	hCG1641133.3	PCDH1	protocadherin 1 (cadherin-like 1)
164845	5097	hCG1641133.3	PCDH1	protocadherin 1 (cadherin-like 1)
116092	57575	hCG2026367	PCDH10	protocadherin 10
226808	57575	hCG2026367	PCDH10	protocadherin 10
183881	27328	hCG1797565.2	PCDH11X	protocadherin 11 X-linked
168835	27328 83259	hCG1797565.2		protocadherin 11 X-linked protocadherin 11 Y-linked
209765	27328 83259	hCG1797565.2	PCDH11X PCDH11Y	protocadherin 11 X-linked protocadherin 11 Y-linked
221347	27328 83259	hCG1797565.2	PCDH11X PCDH11Y	protocadherin 11 X-linked protocadherin 11 Y-linked
101331	51294	hCG36994.2	PCDH11X PCDH11Y	protocadherin 11 X-linked protocadherin 11 Y-linked
200947	65217	hCG1651788.3	PCDH12	protocadherin 12
134951	27253	hCG27727.2	PCDH15	protocadherin 15
199474	54510	hCG16335.3	PCDH17	protocadherin 17
105655	57526	hCG20190.2	PCDH18	protocadherin 18
100781	64881	hCG1643344.2	PCDH19	protocadherin 19
203213	92211	hCG1811065.1	PCDH20	protocadherin 20
108465	5099	hCG2026913	PCDH21	protocadherin 21
213562	5100	hCG27503.4	PCDH7	BH-protocadherin (brain-heart)
130673	5101	hCG1646493.3	PCDH8	protocadherin 8
170220	56147	null	PCDH9	protocadherin 9
194638	56147	hCG1982192	PCDHA1	protocadherin alpha 1
211513	56139	hCG1982192	PCDHA1	protocadherin alpha 1
136297	56138	hCG1982192	PCDHA10	protocadherin alpha 10
105415	56137	hCG1982192	PCDHA11	protocadherin alpha 11
222543	56136	hCG1982192	PCDHA12	protocadherin alpha 12
222659	56146	hCG1982192	PCDHA13	protocadherin alpha 13
187975	56145	hCG1982192	PCDHA2	protocadherin alpha 2
151475	56144	hCG1982192	PCDHA3	protocadherin alpha 3
168081	56144	hCG1982192	PCDHA4	protocadherin alpha 4
123496	56144 56134 56141 9752 56143 56139 56145 56146 56147 56140 56142 56135 56136 56138 56137	hCG1982192	PCDHA4	protocadherin alpha 4
			PCDHAC2	protocadherin alpha subfamily C, 2 protocadherin alpha 7 protocadherin alpha 9 protocadherin alpha 5 protocadherin alpha 10 protocadherin alpha 3 protocadherin alpha 2 protocadherin alpha 1 protocadherin alpha 8 protocadherin alpha 6 protocadherin alpha subfamily C, 1 protocadherin alpha 13 protocadherin alpha 11 protocadherin alpha 12
			PCDHA7 PCDHA9 PCDHA5 PCDHA10 PCDHA3 PCDHA2 PCDHA1 PCDHA8 PCDHA5	
124958	56143	hCG1982192	PCDHA5	protocadherin alpha 5

173585	56143 null	PCDHA5	protocadherin alpha 5
210589	56142 hCG1982192	PCDHA6	protocadherin alpha 6
147844	56141 hCG1982192	PCDHA7	protocadherin alpha 7
184543	56141 hCG1982192	PCDHA7	protocadherin alpha 7
194941	56140 hCG1982192	PCDHA8	protocadherin alpha 8
218115	9752 hCG1982192	PCDHA9	protocadherin alpha 9
183700	56135 hCG1982192	PCDHAC1	protocadherin alpha subfamily C, 1
221123	56134 hCG1982192	PCDHAC2	protocadherin alpha subfamily C, 2
141421	29930 hCG42517.3	PCDHB1	protocadherin beta 1
212558	56126 hCG1982206.1	PCDHB10	protocadherin beta 10
141446	56125 hCG2039153	PCDHB11	protocadherin beta 11
114557	56124 hCG42513.2	PCDHB12	protocadherin beta 12
152367	56123 hCG1641131.3	PCDHB13	protocadherin beta 13
221361	56123 hCG1641131.3	PCDHB13	protocadherin beta 13
172671	56122 hCG2042863	PCDHB14	protocadherin beta 14
199363	56121 hCG2042865.1	PCDHB15	protocadherin beta 15
156268	57717 hCG1818480.2	PCDHB16	protocadherin beta 16
218519	57717 hCG1818480.2	PCDHB16	protocadherin beta 16
218372	54661 hCG42520.3	PCDHB17	protocadherin beta 17 pseudogene
218472	56133 hCG1818374.1	PCDHB2	protocadherin beta 2
199477	56132 hCG42518.3	PCDHB3	protocadherin beta 3
106932	56131 hCG1817972.1	PCDHB4	protocadherin beta 4
169402	26167 hCG42510.2	PCDHB5	protocadherin beta 5
138911	56130 hCG42511.3	PCDHB6	protocadherin beta 6
196274	56129 hCG1982202	PCDHB7	protocadherin beta 7
169799	56128 hCG1817973.1	PCDHB8	protocadherin beta 8
189327	56127 hCG1817969.1	PCDHB9	protocadherin beta 9
131242	56114 hCG1982215.1	PCDHGA1	protocadherin gamma subfamily A, 1
218524	56105 hCG1982215.1	PCDHGA11	protocadherin gamma subfamily A, 11
226088	26025 hCG1982215.1	PCDHGA12	protocadherin gamma subfamily A, 12
218348	56113 hCG1982215.1	PCDHGA2	protocadherin gamma subfamily A, 2
221896	56112 hCG1982215.1	PCDHGA3	protocadherin gamma subfamily A, 3
223790	56111 hCG1982215.1	PCDHGA4	protocadherin gamma subfamily A, 4
224303	56110 hCG1982215.1	PCDHGA5	protocadherin gamma subfamily A, 5
224541	56109 hCG1982215.1	PCDHGA6	protocadherin gamma subfamily A, 6
226913	56108 hCG1982215.1	PCDHGA7	protocadherin gamma subfamily A, 7
111441	9708 hCG1982215.1	PCDHGA8	protocadherin gamma subfamily A, 8
128299	9708 hCG1982215.1	PCDHGA8	protocadherin gamma subfamily A, 8
223334	56107 hCG1982215.1	PCDHGA9	protocadherin gamma subfamily A, 9
219556	56104 hCG1982215.1	PCDHGB1	protocadherin gamma subfamily B, 1
220056	56103 hCG1982215.1	PCDHGB2	protocadherin gamma subfamily B, 2
217779	56102 hCG1982215.1	PCDHGB3	protocadherin gamma subfamily B, 3
222534	8641 hCG1982215.1	PCDHGB4	protocadherin gamma subfamily B, 4
222533	56101 hCG1982215.1	PCDHGB5	protocadherin gamma subfamily B, 5

209182 56101|5098|9708|56097|56102|56104|56113|56110|56100|8641|56099|56109|56103|56106|56112|56111|56105|56107|56108|56098|26025|56114

PCDHGB5|PCDHGC3 protocadherin gamma subfamily B, 5|protocadherin gamma subfamily C, 3|protocadherin gamma subfamily A, 8|protocadherin gamma subfamily C, 5|protocadherin gamma subfamily B, 5|PCDHGB3|PCDHG 3|protocadherin gamma subfamily B, 1|protocadherin gamma subfamily A, 2|protocadherin gamma B1|PCDHGA2|PCDH subfamily A, 5|protocadherin gamma subfamily B, 6|protocadherin gamma subfamily B, GA5|PCDHGB6|PCD 4|protocadherin gamma subfamily B, 7|protocadherin gamma subfamily A, 6|protocadherin gamma HGB4|PCDHGB7|PC subfamily B, 2|protocadherin gamma subfamily A, 10|protocadherin gamma subfamily A, DHGA6|PCDHGB2|P 3|protocadherin gamma subfamily A, 4|protocadherin gamma subfamily A, 11|protocadherin CDHGA10|PCDHGA gamma subfamily A, 9|protocadherin gamma subfamily A, 7|protocadherin gamma subfamily C, 3|PCDHGA4|PCDHG 4|protocadherin gamma subfamily A, 12|protocadherin gamma subfamily A, 1 A11|PCDHGA9|PCD HGA7|PCDHGC4|PC DHGA12|PCDHGA1

217907 56100 hCG1982215.1
227600 56099 hCG1982215.1
226138 5098 hCG1982215.1
167693 56098 hCG1982215.1
173538 56097 hCG1982215.1
136478 54825 hCG1811548.2
173927 27445 hCG19253.3
176448 27445 hCG19253.3
136723 54760 hCG21590.3
122279 375033 hCG1775249.1
103150 5175 hCG2002097
101225 53918 hCG2002731.1
188607 23556 hCG34285.3
106160 5284 hCG1640654.3
100567 29992 hCG2039461
142909 29992 hCG2039461
125539 29990 hCG2024112.3
179697 5317 hCG17681.2
200918 5318 hCG1685949.3
174008 11187 hCG1812073.1
129144 8502 hCG15894.3
105793 5411 hCG21240.3
188528 10631 hCG32814.3
148513 5549 hCG24330.2
204370 5553 hCG39762.3

160610 10394 hCG39761.2
103465 283659 hCG40052.4
174525 283659 hCG40052.4
194189 283659 hCG40052.4

PCDHGB6 protocadherin gamma subfamily B, 6
PCDHGB7 protocadherin gamma subfamily B, 7
PCDHGC3 protocadherin gamma subfamily C, 3
PCDHGC4 protocadherin gamma subfamily C, 4
PCDHGC5 protocadherin gamma subfamily C, 5
PCLKC null
PCLO piccolo (presynaptic cytomatrix protein)
PCLO piccolo (presynaptic cytomatrix protein)
PCSK4 proprotein convertase subtilisin/kexin type 4
PEAR1 null
PECAM1 platelet/endothelial cell adhesion molecule (CD31 antigen)
PELO pelota homolog (Drosophila)
PIGN phosphatidylinositol glycan, class N
PIGR polymeric immunoglobulin receptor
PILRA paired immunoglobulin-like type 2 receptor alpha
PILRA paired immunoglobulin-like type 2 receptor alpha
PILRB paired immunoglobulin-like type 2 receptor beta
PKP1 plakophilin 1 (ectodermal dysplasia/skin fragility syndrome)
PKP2 plakophilin 2
PKP3 plakophilin 3
PKP4 plakophilin 4
PNN pinin, desmosome associated protein
POSTN periostin, osteoblast specific factor
PRELP proline/arginine-rich end leucine-rich repeat protein
PRG2 proteoglycan 2, bone marrow (natural killer cell activator, eosinophil granule major basic protein)

PRG3 proteoglycan 3
PRTG protogenin homolog (Gallus gallus)
PRTG protogenin homolog (Gallus gallus)
PRTG protogenin homolog (Gallus gallus)

211648	5669 null	PSG1	pregnancy specific beta-1-glycoprotein 1
120399	5669 440533 hCG1996823.1 hCG1995688.1	PSG1 PSG8	pregnancy specific beta-1-glycoprotein 1 pregnancy specific beta-1-glycoprotein 8
110156	5680 null	PSG11	pregnancy specific beta-1-glycoprotein 11
115454	5680 hCG1995685	PSG11	pregnancy specific beta-1-glycoprotein 11
173477	5670 hCG1995684	PSG2	pregnancy specific beta-1-glycoprotein 2
212146	5671 hCG1996826	PSG3	pregnancy specific beta-1-glycoprotein 3
110524	5672 hCG1730647.3	PSG4	pregnancy specific beta-1-glycoprotein 4
211649	5672 hCG1730647.3	PSG4	pregnancy specific beta-1-glycoprotein 4
228607	5672 hCG1995681	PSG4	pregnancy specific beta-1-glycoprotein 4
101520	5673 null	PSG5	pregnancy specific beta-1-glycoprotein 5
114219	5675 hCG1995687	PSG6	pregnancy specific beta-1-glycoprotein 6
139074	5676 hCG1995686	PSG7	pregnancy specific beta-1-glycoprotein 7
130276	5678 null	PSG9	pregnancy specific beta-1-glycoprotein 9
163073	5678 hCG1995680.1	PSG9	pregnancy specific beta-1-glycoprotein 9
148685	9051 hCG40801.3	PSTPIP1	proline-serine-threonine phosphatase interacting protein 1
141843	9050 hCG24029.3	PSTPIP2	proline-serine-threonine phosphatase interacting protein 2
120616	5754 hCG2001916.1	PTK7	PTK7 protein tyrosine kinase 7
102823	5781 hCG1782075.4	PTPN11	protein tyrosine phosphatase, non-receptor type 11 (Noonan syndrome 1)
138702	5781 hCG1782075.4	PTPN11	protein tyrosine phosphatase, non-receptor type 11 (Noonan syndrome 1)
166714	5781 hCG1782075.4 hCG1820719.2	PTPN11	protein tyrosine phosphatase, non-receptor type 11 (Noonan syndrome 1)
177334	5781 hCG2012249 hCG1782075.4 hCG1820438.2	PTPN11	protein tyrosine phosphatase, non-receptor type 11 (Noonan syndrome 1)
220025	5781 hCG1782075.4	PTPN11	protein tyrosine phosphatase, non-receptor type 11 (Noonan syndrome 1)
126260	5782 hCG40623.2	PTPN12	protein tyrosine phosphatase, non-receptor type 12
148473	26191 hCG38640.3	PTPN22	protein tyrosine phosphatase, non-receptor type 22 (lymphoid)
173497	26191 hCG38640.3	PTPN22	protein tyrosine phosphatase, non-receptor type 22 (lymphoid)
116804	5786 hCG2020289.1	PTPRA	protein tyrosine phosphatase, receptor type, A
162336	5789 hCG27282.2	PTPRD	protein tyrosine phosphatase, receptor type, D
221568	5791 hCG40952.4	PTPRE	protein tyrosine phosphatase, receptor type, E
200143	5792 hCG25208.2	PTPRF	protein tyrosine phosphatase, receptor type, F
187454	5796 hCG2030406	PTPRK	protein tyrosine phosphatase, receptor type, K
116034	5797 hCG38134.2	PTPRM	protein tyrosine phosphatase, receptor type, M
150889	374462 hCG1644439.3	PTPRQ	protein tyrosine phosphatase, receptor type, Q
161959	5802 hCG23499.3	PTPRS	protein tyrosine phosphatase, receptor type, S
111501	11122 hCG1812093.1	PTPRT	protein tyrosine phosphatase, receptor type, T
203973	10076 hCG1811709.1	PTPRU	protein tyrosine phosphatase, receptor type, U
170320	9543 hCG1786864.2	PUNC	putative neuronal cell adhesion molecule
149750	5817 hCG1996181.1	PVR	poliovirus receptor
197686	5818 hCG1818422.1	PVRL1	poliovirus receptor-related 1 (herpesvirus entry mediator C; nectin)
128369	5819 hCG22130.3	PVRL2	poliovirus receptor-related 2 (herpesvirus entry mediator B)
179834	25945 hCG1779876.3	PVRL3	poliovirus receptor-related 3
205966	25945 hCG1779876.3	PVRL3	poliovirus receptor-related 3
147263	81607 hCG20851.3	PVRL4	poliovirus receptor-related 4
176505	125950 hCG2033729	RAVER1	null
154699	57333 hCG1998059	RCN3	reticulocalbin 3, EF-hand calcium binding domain

167300	6091 hCG1998935	ROBO1	roundabout, axon guidance receptor, homolog 1 (Drosophila)
111044	6092 hCG1735047.2	ROBO2	roundabout, axon guidance receptor, homolog 2 (Drosophila)
200710	64221 hCG2032644	ROBO3	roundabout, axon guidance receptor, homolog 3 (Drosophila)
162644	375056 440751 hCG25333.3	RP11-378J18.4 LOC440751	null
172499	9092 hCG23307.2	SART1	squamous cell carcinoma antigen recognised by T cells
154411	90198 hCG1810760.1	SBP1	null
120783	80274 hCG40486.2	SCUBE1	signal peptide, CUB domain, EGF-like 1
138127	57758 hCG23893.3	SCUBE2	signal peptide, CUB domain, EGF-like 2
113261	222663 hCG1779807.4	SCUBE3	signal peptide, CUB domain, EGF-like 3
209676	6383 hCG15745.3	SDC2	syndecan 2 (heparan sulfate proteoglycan 1, cell surface-associated, fibroglycan)
217147	6385 hCG38363.2	SDC4	syndecan 4 (amphiglycan, ryudocan)
129059	221935 hCG2036979	SDK1	sidekick homolog 1 (chicken)
175369	221935 hCG2036979	SDK1	sidekick homolog 1 (chicken)
184063	221935 hCG2036979	SDK1	sidekick homolog 1 (chicken)
196537	221935 hCG2036979	SDK1	sidekick homolog 1 (chicken)
231806	221935 hCG1991810	SDK1	sidekick homolog 1 (chicken)
234955	221935 hCG2036979	SDK1	sidekick homolog 1 (chicken)
123088	54549 hCG28994.2	SDK2	sidekick homolog 2 (chicken)
232979	54549 hCG1986151	SDK2	sidekick homolog 2 (chicken)
199263	6401 hCG38008.3	SELE	selectin E (endothelial adhesion molecule 1)
192488	6402 hCG37088.3	SELL	selectin L (lymphocyte adhesion molecule 1)
199831	6402 hCG37088.3	SELL	selectin L (lymphocyte adhesion molecule 1)
114371	6403 hCG38007.3	SELP	selectin P (granule membrane protein 140kDa, antigen CD62)
108579	56920 hCG42589.3	SEMA3G	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3G
117418	54910 hCG18643.3	SEMA4C	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4C
169984	6414 hCG37243.3	SEPP1	selenoprotein P, plasma, 1
125513	89790 hCG1641285.3	SIGLEC10	sialic acid binding Ig-like lectin 10
194422	114132 hCG1994381	SIGLEC11	sialic acid binding Ig-like lectin 11
126953	89858 hCG1772239.3	SIGLEC12	sialic acid binding Ig-like lectin 12
160405	8778 hCG91954.2	SIGLEC5	sialic acid binding Ig-like lectin 5
151173	946 hCG91955.3	SIGLEC6	sialic acid binding Ig-like lectin 6
139438	27036 hCG19683.3	SIGLEC7	sialic acid binding Ig-like lectin 7
198707	27036 hCG19683.3	SIGLEC7	sialic acid binding Ig-like lectin 7
179941	27181 hCG1647525.3	SIGLEC8	sialic acid binding Ig-like lectin 8
101499	27180 hCG22939.2	SIGLEC9	sialic acid binding Ig-like lectin 9
122182	284367 hCG1772127.3	SIGLECP3	sialic acid binding Ig-like lectin, pseudogene 3
121015	6504 hCG20854.2	SLAMF1	signaling lymphocytic activation molecule family member 1
142444	114836 hCG1766501.2	SLAMF6	SLAM family member 6
135333	57823 hCG20853.3	SLAMF7	SLAM family member 7
152820	57823 hCG20853.3	SLAMF7	SLAM family member 7

110971	56833	hCG38209.3	SLAMF8	SLAM family member 8
177405	89886	hCG39737.2	SLAMF9	SLAM family member 9
223460	29015	hCG39762.3	SLC43A3	solute carrier family 43, member 3
127861	6585	hCG25785.4	SLIT1	slit homolog 1 (Drosophila)
109598	9353	hCG1811769.1	SLIT2	slit homolog 2 (Drosophila)
107128	6586	hCG36986.3	SLIT3	slit homolog 3 (Drosophila)
222823	6614	hCG39260.3	SN	sialoadhesin
163087	25992	hCG2013435	SNED1	sushi, nidogen and EGF-like domains 1
162363	10418	hCG1811032.3	SPON1	spodin 1, extracellular matrix protein
169526	10417	hCG34446.2	SPON2	spodin 2, extracellular matrix protein
198631	23145	hCG16180.3	SSPO	SCO-spondin homolog (Bos taurus)
217311	23145	hCG2039182.1	SSPO	SCO-spondin homolog (Bos taurus)
163213	23166	hCG17560.3	STAB1	stabilin 1
120080	55576	hCG1781889.2	STAB2	stabilin 2
201388	161497	hCG2038916 hCG2038917	STRC	stereocilin
132944	252983	null	STXBP4	syntaxin binding protein 4
143717	6892	hCG17519.4	TAPBP	TAP binding protein (tapasin)
105274	55080	hCG2039662	TAPBPL	TAP binding protein-like
161192	146771	hCG1749492.3	TCAM1	testicular cell adhesion molecule 1 homolog (mouse)
119853	7007	hCG16247.2	TECTA	tectorin alpha
133906	7045	hCG41400.2	TGFBI	transforming growth factor, beta-induced, 68kDa
179403	91937	hCG15399.2	TIMD4	T-cell immunoglobulin and mucin domain containing 4
181072	7082	hCG27621.4	TJP1	tight junction protein 1 (zona occludens 1)
157389	9414	hCG30538.4	TJP2	tight junction protein 2 (zona occludens 2)
182089	27134	hCG1811319.3	TJP3	tight junction protein 3 (zona occludens 3)
187182	53345	hCG38579.4 hCG2044078	TM6SF2	transmembrane 6 superfamily member 2
189141	388364	null	TMIGD	transmembrane and immunoglobulin domain containing
143831	3371	hCG29852.3	TNC	tenascin C (hexabrachion)
165227	7130	hCG41965.2	TNFAIP6	tumor necrosis factor, alpha-induced protein 6
176766	63923	hCG24200.3	TNN	tenascin N
208332	7143	hCG24199.3	TNR	tenascin R (restrictin, janusin)
123185	7148	hCG2001565	TNXB	tenascin XB
230136	7148	hCG2001563	TNXB	tenascin XB
110510	6955	hCG1793998.3	TRA@	T cell receptor alpha locus
150469	28738 28517 28755 28663 6955	hCG2014112.1	TRAJ17 TRDV2 TRAC TRAV20 TRA@	T cell receptor alpha joining 17 T cell receptor delta variable 2 T cell receptor alpha constant T cell receptor alpha variable 20 T cell receptor alpha locus
205345	28663	hCG1812119.2	TRAV20	T cell receptor alpha variable 20
176062	28663 6955	hCG1812143.2	TRAV20 TRA@	T cell receptor alpha variable 20 T cell receptor alpha locus
122565	28639	hCG1686192.2	TRBC1	T cell receptor beta constant 1
169877	28639	hCG1644527.4	TRBC1	T cell receptor beta constant 1
146651	28568	hCG2039505	TRBV19	T cell receptor beta variable 19
111840	28619	hCG2039498	TRBV3-1	T cell receptor beta variable 3-1
191844	28611	hCG2039491	TRBV5-4	T cell receptor beta variable 5-4
165497	28517	hCG2014123.1	TRDV2	T cell receptor delta variable 2

106461	10103 hCG22089.3	TSPAN1	tetraspanin 1
174406	83882 hCG1723929.2	TSPAN10	tetraspanin 10
214516	441631 hCG2009527.1	TSPAN11	tetraspanin 11
229054	441631 hCG2009527.1	TSPAN11	tetraspanin 11
215171	23554 hCG33045.3	TSPAN12	tetraspanin 12
197801	81619 hCG23736.4	TSPAN14	tetraspanin 14
166195	23555 hCG23073.2	TSPAN15	tetraspanin 15
192403	26526 hCG29960.2	TSPAN16	tetraspanin 16
153433	26262 hCG41598.3	TSPAN17	tetraspanin 17
204877	10099 hCG40797.3	TSPAN3	tetraspanin 3
181736	340348 hCG41659.4	TSPAN33	tetraspanin 33
144660	7106 hCG1993430	TSPAN4	tetraspanin 4
232203	7106 hCG1994788	TSPAN4	tetraspanin 4
203573	10098 hCG37727.3	TSPAN5	tetraspanin 5
137449	7105 hCG19468.3	TSPAN6	tetraspanin 6
171247	7102 hCG18324.3	TSPAN7	tetraspanin 7
116150	7103 hCG25408.4	TSPAN8	tetraspanin 8
176153	10867 hCG2002355.1	TSPAN9	tetraspanin 9
208640	10867 hCG2040014	TSPAN9	tetraspanin 9
179329	7305 hCG23571.3	TYROBP	TYRO protein tyrosine kinase binding protein
103169	284415 hCG1802988.1	UNQ3033	null
193263	7399 hCG1782692.1	USH2A	Usher syndrome 2A (autosomal recessive, mild)
218015	7399 hCG2042552	USH2A	Usher syndrome 2A (autosomal recessive, mild)
219772	7399 hCG1985824	USH2A	Usher syndrome 2A (autosomal recessive, mild)
220783	7399 hCG1985824	USH2A	Usher syndrome 2A (autosomal recessive, mild)
224218	7399 hCG1985824	USH2A	Usher syndrome 2A (autosomal recessive, mild)
225858	7399 hCG2036693	USH2A	Usher syndrome 2A (autosomal recessive, mild)
226354	7399 hCG1985824	USH2A	Usher syndrome 2A (autosomal recessive, mild)
233814	7399 hCG23154.2	USH2A	Usher syndrome 2A (autosomal recessive, mild)
123908	7412 hCG32384.3	VCAM1	vascular cell adhesion molecule 1
174652	8875 hCG21460.3	VNN2	vanin 2
170786	7441 hCG32561.2	VPREB1	pre-B lymphocyte gene 1
177212	29802 hCG41096.2	VPREB3	pre-B lymphocyte gene 3
147224	340547 hCG1998508.1	VSIG1	V-set and immunoglobulin domain containing 1
177241	23584 hCG39803.2	VSIG2	V-set and immunoglobulin domain containing 2
102138	388078 hCG1812074.1	VSIG6	V-set and immunoglobulin domain containing 6
193279	7448 hCG31810.2	VTN	vitronectin (serum spreading factor, somatomedin B, complement S-protein)
172273	64856 hCG1995870	VWA1	von Willebrand factor A domain containing 1
147927	340706 null	VWA2	von Willebrand factor A domain containing 2
221463	340706 null	VWA2	von Willebrand factor A domain containing 2
126761	7450 hCG2002012	VWF	von Willebrand factor
168882	7483 hCG42240.3	WNT9A	wingless-type MMTV integration site family, member 9A
158336	7484 hCG27973.4	WNT9B	wingless-type MMTV integration site family, member 9B
188020	7455 hCG20463.3	ZAN	zonadhesin
221153	7455 hCG20463.3	ZAN	zonadhesin

133751
183592
141572
210665

22917 hCG40396.2
7783 hCG38242.2
7784 hCG41358.4
57829 hCG24865.3

ZP1
ZP2
ZP3
ZP4

zona pellucida glycoprotein 1 (sperm receptor)
zona pellucida glycoprotein 2 (sperm receptor)
zona pellucida glycoprotein 3 (sperm receptor)
zona pellucida glycoprotein 4