

ID	WHO 2008	Karyotype (CC) ISCN 2013	N/A
1	RCUD	46,XY[20]	N
2	CMML-1	46,XX[20]	N
3	RARS	46,XX[21]	N
4	RCMD	46,XY[21]	N
5	RARS	46,XY[20]	N
6	RCUD	Non-informative	N
7	RAEB-1	46,XY[20]	N
8	RCUD	46,XX[20]	N
9	RCMD	46,XX[21]	N
10	RCMD	46,XX[23]	N
11	CMML-1	46,XY[21]	N
12	RCMD	46,XX[20]	N
13	RCMD	46,XX[21]	N
14	RCMD	46,XY[20]	N
15	RCMD	46,XX[23]	N
16	RAEB-1	47,XY,+8[1]/46,XY[22] *	N
17	RCMD	46,XY,del(7)(q21),add(12)(p12),-17,+mar[5]/46,XY[15]	A
18	RCUD	46,XY[20]	N
19	CMML-1	47,XY,+8[18]/46,XY[9]	A
20	RAEB-2	Non-informative	A
21	RAEB-1	46,XX[12]	N
22	RCMD	46,XX[20]	N
23	RAEB-2	46,XX,del(5)(q12)[10]/48,sl,+14,+18[6]/46,XX[4]	A
24	RCMD	46,XY,-5,del(7)(q21),+mar[15]/46,XY[5]	A
25	RCMD	45,X,-Y[8]/46,XY[2]	A
26	RAEB-2	46,XY,del(5)(q13q31)[7]/46,sl,del(7)(q31)[3]/47,sdl1,+mar[2]	A
27	RAEB-1	46,XY,-5,+8,add(11)(q23)[cp20]	A
28	RCMD	46,XX[18]	N
29	RCMD	46,XY[21]	N
30	RCMD	46,XX[21]	N
31	RCMD	46,XY[20]	N
32	RCMD	46,XY[22]	N
33	RCMD	46,XY[12]	A
34	RCUD	46,XX[22]	N
35	RCMD	46,XY[16]	N
36	RCMD	46,XY[23]	A
37	RCMD	46,XX[10]	A
38	RCMD	46,XX[18]	N
39	RCMD	46,XX[16]	N
40	MDS-U	46,XX[11]	N
41	RCMD	46,XY[21]	N
42	CMML-1	46,XY[20]	N

43	CMML-1	46,XY[20]	N
44	RCMD	46,XY[20]	N
45	CMML-1	46,XX[20]	N
46	CMML-1	46,XY[20]	N
47	MDS del(5q)	46,XX,del(5)(q21q31)[14]/46,XX[6]	N
48	RCMD	46,XY[20]	N
49	RCMD	46,XX[20]	N
50	MDS del(5q)	46,XX[10]	A
51	RCMD	46,XY,del(5)(q13q31)[3]/46,XY[17]	A
52	RAEB-2	46,XX[20]	A
53	RAEB-2	46,XX[21]	N
54	RCMD	46,XY[20]	N
55	RCMD	46,XY[20]	N
56	RCMD	46,XY[20]	N
57	RCMD	46,XY,add(12)(q21)[15]/46,XY[5]	A
58	RCMD	46,XY[20]	N
59	RCMD	46,XX[20]	N
60	RAEB-2	46,XY[18]	N
61	RAEB-2	46,XY[24]	N
62	MDS-U	46,XY[10]	N
63	RCUD	46,XY[23]	N
64	CMML-1	46,XX,del(7)(q21)[1]/46,XX[22] *	N
65	RAEB-1	Non-informative	N
66	CMML-1	46,XX[20]	N
67	CMML-1	46,XY[12]	N
68	CMML-1	46,XX[15]	A
69	CMML-1	46,XY[20]	N
70	CMML-1	46,XX,add(11)(p14)[3]/46,XX[12]	N
71	RCMD	46,XX[20]	N
72	RAEB-1	Non-informative	A
73	MDS del(5q)	46,XX[20]	A
74	RAEB-1	Non-informative	A
75	RAEB-2	46,XY,i(17)(q10)[20]	A
76	RAEB-2	46,XX[23]	N
77	RCMD	46,XY[25]	N
78	RCMD	47,XY,+der(7)t(1;7)(q21;p13)del(7)(q21)[15]/46,XY[5]	A
79	RAEB-2	47,XY,+8[7]/48,sl,+9[2]/46,XY[11]	A
80	RCMD	46,XX[10]	N
81	CMML-1	46,XY[22]	N
82	RCMD	46,XY[14]	N
83	RCMD	46,XY[23]	N
84	RCMD	46,XY[10]	N
85	RCMD	46,XY[22]	N
86	RCMD	46,XX[8]	N
87	RCMD	46,XX[20]	N
88	RAEB-1	Non-informative	N
89	RCMD	46,XY[28]	N
90	MDS-U	46,XX[20]	N
91	CMML-1	46,XY[22]	N
92	RCMD	45,X,-Y[20]	A

93	RCMD	46,XX[20]	N
94	RCMD	46,XY[15]	N
95	CMML-1	46,XX[21]	N
96	RCMD	46,XX[15]	N
97	CMML-1	46,XY[20]	N
98	CMML-1	Non-informative	A
99	RCMD	Non-informative	N
100	RCMD	46,XX[20]	N
101	RCMD	46,XX,der(2)t(1;2)(q21;q34)[9]/46,XX[11]	A
102	RCMD	46,XY[21]	N
103	CMML-1	46,XX[20]	N
104	CMML-2	Non-informative	N
105	CMML-1	45,X,-Y[25]/46,XY[3]	A
106	RCMD	46,XY[26]	N
107	RCMD	46,XY[20]	N
108	RCMD	46,XX[20]	N
109	RCMD	46,XY,del(5)(q13q31)[4]/46,XY[16]	A
110	RCMD	46,XY[20]	N
111	RCMD	46,XX[15]	N
112	RCMD	46,XY[20]	N
113	CMML-1	Non-informative	N
114	CMML-1	46,XX[15]	N
115	CMML-1	46,XY[20]	N
116	RAEB-2	Non-informative	A
117	CMML-1	46,XY[15]	N
118	CMML-1	47,XX,+der(1)del(1)(p13)[18]/46,XX[2]	A
119	RCMD	46,XY[18]	N
120	RCMD	46,XY[23]	N
121	RCMD	46,XY[26]	N
122	RCMD	Non-informative	N
123	RCMD	46,XY[20]	N
124	RCMD	46,XY[20]	N
125	RCMD	46,XY[20]	N
126	RCMD	46,XX[20]	A
127	RCMD	46,XX[20]	A
128	CMML-1	46,XY[20]	N
129	RAEB-1	Non-informative	A
130	RAEB-2	47,XX,+del(3)(p13),-4,del(5)(q12q32),+12,dic(17;20)(q21;q12)[18]/46,XX[2]	A
131	CMML-2	46,XY[23]	N
132	RCMD	46,XY,t(1;11)(q21;p13),del(20)(q12)[21]/47,sl,del(7)(q21),+21[5]/48,sdl1,+18[2]	A
133	RCUD	46,XX[20]	N
134	RCMD	46,XX[20]	N
135	RCMD	46,XX[25]	N
136	RCMD	46,XY[10]	N
137	RCMD	46,XY[8]	N
138	RCMD	46,XX[25]	N
139	RCMD	46,XY[20]	N
140	RCMD	46,XX[24]	A
141	RCUD	46,XY[23]	N

142	RCMD	46,XY[12]	N
143	CMML-2	Non-informative	A
144	CMML-1	Non-informative	N
145	MDS-U	Non-informative	N
146	MDS-U	Non-informative	A
147	CMML-1	Non-informative	N
148	RCMD	46,XY[24]	N
149	CMML-1	46,XY[23]	N
150	CMML-1	46,XY[21]	N
151	RARS-T	46,XY[20]	N
152	RCMD	46,XY[22]	N
153	CMML-1	46,XY[20]	N
154	CMML-1	46,XY[20]	N
155	RCMD	Non-informative	N
156	CMML-1	46,XY[20]	N
157	RCMD	46,XY[15]	N
158	RCMD	Non-informative	A
159	RAEB-2	46,XY[20]	N
160	RCMD	Non-informative	N
161	RAEB-2	46,XY[25]	A
162	RAEB-1	46,XY[22]	N
163	CMML-1	45,XX,-5[2]/46,XX[16] *	N
164	RCMD	45,XY,-7[2]/46,XY[15] *	N
165	RCMD	46,XX[20]	N
166	RAEB-1	46,XX[11]	N
167	CMML-2	46,XX[20]	N
168	MDS-U	Non-informative	N
169	MDS del(5q)	46,XX,del(5)(q13q31)[3]/46,XX[19]	N
170	RCMD	46,XY[20]	N
171	RAEB-2	46,XX,del(5)(q13q31)[6]/46,sl,del(7)(q31)[3]/47,sdl1,+8[2]	A
172	RCMD	49-52,XX,+1,+6,+8,+11,+21[cp20]	A
173	RCMD	47,XY,+16[1]/47,XY,+21[1]/46,XY[18] *	N
174	CMML-1	46,XY[20]	N
175	RCMD	46,XY[18]	N
176	RCMD	46,XY,del(20)(q12)[5]	A
177	RCMD	46,XY[20]	N
178	CMML-1	46,XY[20]	N
179	RCMD	Non-informative	N
180	RCMD	46,XY[14]	N
181	RCMD	46,XY[20]	N
182	CMML-2	46,XY[21]	A
183	CMML-1	45,X,-Y[20]	A
184	CMML-1	46,XY[15]	N
185	RAEB-2	Non-informative	N
186	RCMD	46,XY,del(11)(q11)[20]	A
187	RAEB-2	46,XX[20]	N
188	CMML-1	45,X,-Y[17]/80-89[3]	A
189	MDS del(5q)	46,XX,del(5)(q13q31)[17]/46,XX[3]	A
190	MDS-U	45,X,-Y[8]/46,XY[12]	A
191	RCMD	46,XX[24]	N
192	RCMD	46,XY[20]	N

193	CMML-1	46,XX[20]	N
194	RCMD	46,XX[22]	N
195	RAEB-1	46,XX[12]	N
196	RAEB-1	46,XX[20]	N
197	RAEB-1	45,XY,-7[20]	A
198	CMML-2	46,XY[21]	N
199	RAEB-1	Non-informative	N
200	RAEB-1	46,XY[23]	N
201	RAEB-2	46,XY[22]	N
202	MDS del(5q)	46,XY,del(5)(q13q31)[20]	A
203	MDS-U	46,XY[15]	N
204	RCMD	46,XY[20]	N
205	CMML-1	Non-informative	A
206	RCMD	46,XX[23]	N
207	CMML-1	46,XY[13]	N
208	RCMD	46,XX[23]	N
209	CMML-1	46,XY[20]	N
210	RCMD	Non-informative	N
211	RCMD	46,XY[25]	N
212	RAEB-1	46,XY[15]	N
213	RCMD	46,XX,del(11)(q21)[5]/46,XX[15]	A
214	RCMD	46,XX,del(5)(q13q31)[3]/46,XX[17]	N
215	RCMD	46,XY,del(7)(q11)[2]/46,XY[18] *	N
216	RCMD	46,XY[23]	N
217	RAEB-2	46,XX[20]	A
218	CMML-1	46,XY[20]	N
219	RCMD	46,XX,del(5)(q13q31),del(20)(q12)[8]/46,XX[12]	A
220	RCMD	46,XX[16]	N
221	RCMD	46,XY[8]	N
222	RAEB-1	46,XY[13]	N
223	RAEB-1	46,XY[21]	N
224	MDS del(5q)	46,XX,del(5)(q13q31)[14]/46,XX[13]	A
225	RAEB-2	46,XY,t(5;15)(p14;q22)[18]/46,XY[2]	N
226	RARS-T	46,XX[10]	N
227	CMML-2	46,XY[10]	N
228	RAEB-2	46,XY[21]	N
229	RARS	46,XY[20]	N
230	RCMD	46,XY[21]	N
231	RARS	46,XY[20]	N
232	RCMD	Non-informative	A
233	RARS-T	46,XY[22]	N
234	RCMD	46,XX[20]	N
235	RCUD	46,XX[20]	N
236	RAEB-1	46,XY,del(12)(q12)[20]	A
237	RCMD	46,XY[25]	N
238	CMML-1	Non-informative	N
239	RCMD	45,X,-Y[5]/46,XY[15]	A
240	RCMD	46,XX[16]	N
241	RAEB-1	45,X,-Y,del(11)(q21)[1]/45,sl,del(5)(q13q31)[15]/46,XY[4]	A
242	RCMD	46,XX[20]	N
243	MDS-U	46,XY[21]	N
244	RAEB-1	46,XY[10]	A

245	RCMD	46,XY[26]	N
246	RCUD	63,XY,+4,+5,+6,+8,+9,+i(11)(q10),+14,+15,+16,+17,+18[3]/46,XY[17]	N
247	CMML-1	46,XY[13]	N
248	RCUD	46,XY[11]	N
249	CMML-1	46,XY[25]	N
250	RCMD	46,XX,del(5)(q13q31)[12]/46,XX[8]	A
251	RAEB-1	46,XY,-3,del(5)(q13q31),del(7)(q21),+der(8)t(3;8)(q12;q22)[20]	A
252	RCMD	45,X,-Y[23]	A
253	CMML-1	46,XY[27]	N
254	CMML-1	46,XY[23]	N
255	RCUD	46,XX[20]	N
256	RCMD	46,XY[10]	N
257	RCMD	46,XX[20]	N
258	CMML-1	46,XY[20]	N
259	RCMD	Non-informative	N
260	RCMD	46,XX[24]	N
261	RARS	46,XY[30]	N
262	RARS	46,XX[25]	A
263	RCMD	46,XX[20]	A
264	RAEB-2	46,XX[20]	N
265	RCMD	46,XY[22]	N
266	RCMD	46,XY[20]	N
267	RCMD	46,XY[16]	A
268	RAEB-2	46,XY[23]	N
269	RCMD	46,XY[24]	A
270	RCMD	46,XY[20]	N
271	RCMD	46,XY[12]	N
272	RARS	46,XY[20]	N
273	RARS	46,XY[21]	N
274	RCUD	Non-informative	N
275	RCUD	46,XX[22]	N
276	RCUD	46,XY[22]	A
277	RCMD	46,XX[21]	N
278	RCMD	Non-informative	A
279	RARS	46,XY[10]	N
280	RCUD	Non-informative	N
281	RCMD	46,XY[17]	N
282	RCMD	46,XY[23]	N
283	RCMD	46,XY[22]	N
284	RCMD	46,XX[24]	N
285	RCUD	46,XY[18]	A
286	RCUD	46,XX[23]	N
287	RCUD	46,XY[21]	N
288	RCMD	Non-informative	N
289	RCMD	47,XX,+8[5]/46,XX[15]	A
290	RCMD	46,XY[24]	N
291	RCUD	46,XX[25]	N
292	RCMD	46,XY[20]	N
293	RCMD	Non-informative	N
294	RCMD	46,XY[20]	N
295	RCMD	46,XY[20]	N
296	CMML-1	Non-informative	N

297	RCMD	46,XY[20]	N
298	RARS	Non-informative	N
299	RCMD	Non-informative	N
300	RCMD	Non-informative	N
301	RARS	Non-informative	N

* Cases with nonclonal abnormalities considered as normal by CC.

** Discordant cases between aCGH and CC.

+ aCGH data validated by an independent genome-wide analysis of DNA copy number changes with the SurePr

Abbreviations: WHO, World Health Organization; CC, Conventional cytogenetics; ISCN, International System for Build 38 assembly; MDS del(5q), MDS associated with isolated del(5q); RCUD, refractory cytopenia with uniline. refractory anemia with excess of blasts; MDS-U, MDS unclassified; CMML, chronic myelomonocytic leukemia; F

aCGH results

aCGH results by ISCN 2013 [hg38]

arr(1-22)x2,(XY)x1
arr(1-22,X)x2
arr(1-22,X)x2
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr(1-22,X)x2
arr(1-22)x2,(XY)x1
arr(1-22,X)x2
arr(1-22,X)x2
arr(1-22,X)x2
arr(1-22)x2,(XY)x1
arr(1-22,X)x2
arr(1-22,X)x2
arr(1-22)x2,(XY)x1
arr(1-22,X)x2
arr(1-22)x2,(XY)x1
arr 5q13.2q35.3(73,694,326-181,454,555)x1,7p12.1(19,131,168-198,69,679)x1,7q22.1q36.3(99,304,823-159,330,583)x1,12p13.33p13.31(53,966-6,090,467)x3,12p13.31p12.1(6,135,271-24,247,387)x1,20p12.1q11.21(17,691,524-33,022,322)x3,20q11.21q13.31(33,096,087-
arr(1-22)x2,(XY)x1
arr 8p23.3q24.3(76,975-145,068,042)x3
arr 17p13.3p11.2(228,468-19,210,903)x1,17p11.2q25.3(19,231,752-83,085,958)x3
arr(1-22,X)x2
arr(1-22,X)x2
arr 5p15.2(10,286,152-11,359,363)x1,5q12.2q13.2(61,633,450-69,547,993)x1,5q13.2q33.3(71,416,181-156,506,987)x1,7p21.2p21.1(14,457,711-17,711,115)x1,8q11.21q21.13(50,249,575-79,760,527)x2~4,8q21.13q24.3(79,766,116-145,068,042)x3,18p11.32q23(25,636-80,249,666)x1,21q22.12(34,630,956-
arr 5p15.2p15.1(9,939,960-16,323,701)x1,5q21.2q33.3(102,140,027-158,300,221)x1,5q34(165,644,076-168,739,032)x1,11p13(33,672,548-34,599,549)x1,12p13.31p12.3(8,834,871-16,224,296)x1,20q11.21q13.2(32,219,095-
arr Yp11.32q12(16,329-57,140,292)x0
arr 2q12.1q13(103,920,234-109,971,956)x1,5p15.33p13.3(91,541-31,503,014)x1,5q11.2q12.1(51,587,663-62,718,340)x1,5q12.3q23.1(63,982,533-117,041,116)x1,5q23.2q35.3(122,168,823-181,454,555)x1,7p14.3p14.1(29,401,601-39,955,115)x1,7p14.1(41,848,880-42,624,665)x1,7p12.3p12.1(45,412,022-51,882,977)x1,7q22.3q36.3(105,579,417-159,330,583)x1,8p23.3(226,572-1,435,560)x3,8p23.3p23.2(2,271,959-3,985,505)x3,8q11.1q24.3(46,932,508-145,068,042)x3,12p11.22p11.21(27,944,193-
arr Xp11.4(39,316,864-40,365,681)x0,5p15.33p15.31(91,541-7,774,593)x1,5p15.2p14.3(9,901,506-20,749,240)x1,5q21.2q35.3(104,555,285-181,454,555)x1,9q21.31q32(80,064,412-113,914,748)x1,13q11q34(18,544,845-114,302,034)ctn,15q11.2q22.31(22,420,898-63,950,915)x1,15q22.31q23(63,989,544-
arr(1-22,X)x2
arr(1-22)x2,(XY)x1
arr(1-22,X)x2
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr 4q24(103,969,713-105,691,537)x1
arr(1-22,X)x2
arr(1-22)x2,(XY)x1
arr 6p25.3(1,036,187-1,598,357)x3
arr 11q14.1q25(81,133,249-132,141,003)x1
arr(1-22,X)x2
arr(1-22,X)x2
arr(1-22,X)x2
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1

arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr(1-22,X)x2
arr(1-22)x2,(XY)x1
arr(1-22,X)x2
arr(1-22)x2,(XY)x1
arr(1-22,X)x2
arr 5q15q32(98,132,242-150,041,306)x1,5q33.1q34(151,082,119-167,612,274)x1
arr 5q14.1q31.1(78,636,980-131,803,847)x1,5q31.1q31.3(135,465,651-141,635,448)x1,5q31.3q32(142,678,034-
arr 7q22.1(101,426,286-102,429,849)x1
arr(1-22,X)x2
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr 12q13.11q21.2(46,452,225-75,868,869)x3,12q21.2q21.31(77,240,533-80,015,391)x3
arr(1-22)x2,(XY)x1
arr(1-22,X)x2
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr(1-22,X)x2
arr(1-22)x2,(XY)x1
arr(1-22,X)x2
arr(1-22)x2,(XY)x1
arr 5q14.3q34(87,638,585-161,763,094)x1,10q24.32q24.33(102,140,137-103,240,317)x1,12p13.2p13.1(10,718,584-
12,659,845)x1,21q22.12(34,957,831-35,415,259)x1,22q11.21(21,057,439-21,800,745)x1
arr(1-22)x2,(XY)x1
arr(1-22,X)x2
arr(1-22,X)x2
arr 1p36.33p36.13(824,989-16,351,374)x3,5q13.1q35.3(68,200,911-181,259,502)x1,7q22.1q36.3(101,175,953-
159,330,583)x1,13q12.11q33.2(20,223,377-105,600,012)cth,15q11.1q21.2(19,957,503-
arr 5q14.3q33.3(83,710,222-159,289,919)x1
arr 3q25.1q28(150,625,390-191,848,053)x3,4q21.22q27(83,011,240-120,636,127)x1,5q11.1q11.2(50,341,974-
51,681,618)x1,5q11.2q13.3(55,353,191-75,187,542)x1,5q13.3q35.3(76,662,893-
181,454,555)x1,7p12.1p11.2(51,781,066-54,744,866)x1,7q11.21q11.22(67,404,450-
70,825,266)x1,7q11.23q36.3(73,905,235-159,330,583)x1,13q13.3q21.1(35,400,731-
arr 12p13.2p13.1(11,550,669-13,212,133)x1,17p13.3p11.2(228,468-20,389,434)x1,17p11.2q25.3(20,397,506-
arr(1-22,X)x2
arr(1-22)x2,(XY)x1
arr 1p12q44(120,030,463-248,910,375)x3,7q11.21q11.23(63,789,417-72,835,103)x1,7q11.23q21.3(77,157,262-
arr 8p23.3q24.3(76,975-145,068,042)x3
arr(1-22,X)x2
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr(1-22,X)x2
arr(1-22,X)x2
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr(1-22,X)x2
arr(1-22)x2,(XY)x1
arr Yp11.32q12(16,329-57,140,292)x0

arr(1-22,X)x2
arr(1-22)x2,(XY)x1
arr(1-22,X)x2
arr(1-22,X)x2
arr(1-22)x2,(XY)x1
arr 1q21.1q44(145,430,996-248,910,375)x3,9p24.3p24.2(43,972-4,039,308)x1
arr(1-22,X)x2
arr(1-22,X)x2
arr 1p12q44(120,030,027-248,910,375)x3
arr(1-22)x2,(XY)x1
arr(1-22,X)x2
arr(1-22)x2,(XY)x1
arr Yp11.32q12(16,329-57,140,292)x0
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr(1-22,X)x2
arr 5q31.1q33.3(132,562,764-159,425,976)x1
arr(1-22)x2,(XY)x1
arr(1-22,X)x2
arr(1-22)x2,(XY)x1
arr(1-22,X)x2
arr(1-22,X)x2
arr(1-22)x2,(XY)x1
arr 4q28.3q35.2(130,507,771-190,062,416)x1,5q21.1q34(100,141,890-168,949,404)x1,5q35.2(173,524,902-174,546,416)x1,8q24.11q24.3(117,306,782-145,068,042)x3,20p12.1q11.21(15,038,783-31,412,563)x1,20q11.23q13.2(35,959,115-54,354,440)x1,20q13.32(59,186,820-59,729,914)x1,21q11.2q21.1(14,342,747-arr(1-22)x2,(XY)x1
arr 1q21.2(148,790,872-148,514,987)x3,1q21.2q44(149,859,511-248,910,375)x3,19p13.3p12(94,911-23,998,735)x3
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr(1-22,X)x2
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr 5q15q31.1(97,678,426-134,440,472)x1,5q31.1q31.2(135,522,470-139,472,117)x1,5q31.2q33.3(139,887,984-arr 20q11.21q13.12(33,341,261-44,109,589)x1
arr(1-22)x2,(XY)x1
arr 21q22.12(34,657,737-35,858,723)x1
arr 3p22.1p21.31(41,342,301-48,085,323)x1,4p16.3p16.1(116,762-11,053,184)x1,4p14(35,819,104-40,557,116)x1,4q21.22q35.2(83,174,496-190,062,416)x1,5q13.3q14.1(74,628,038-80,154,663)x1,5q14.3q35.3(87,751,387-181,454,555)x1,11p11.12(48,997,734-49,806,017)x3,11q13.4q25(73,127,519-135,026,776)x2~4,15q13.3q15.1(32,367,813-41,701,581)x1,15q21.3q22.2(56,218,634-arr(1-22)x2,(XY)x1
arr 2p23.3(25,023,428-25,556,857)x1,20q11.21q13.33(32,909,669-64,319,779)x1
arr(1-22,X)x2
arr(1-22,X)x2
arr(1-22,X)x2
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr(1-22,X)x2
arr(1-22)x2,(XY)x1
arr 4q24q25(104,724,905-107,365,246)x1
arr(1-22)x2,(XY)x1

arr(1-22)x2,(XY)x1
arr 12q21.31q21.32(85,480,647-86,413,596)x1
arr(1-22,X)x2
arr(1-22)x2,(XY)x1
arr 8p23.3q24.3(76,975-145,068,042)x3
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
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arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr 5q14.3q33.3(86,075,478-158,914,310)x1
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr 12q22(92,922,027-94,916,511)x1
arr(1-22)x2,(XY)x1
arr(1-22,X)x2
arr(1-22)x2,(XY)x1
arr(1-22,X)x2
arr(1-22,X)x2
arr(1-22,X)x2
arr(1-22)x2,(XY)x1
arr(1-22,X)x2
arr(1-22)x2,(XY)x1
arr 5q14.2q34(83,066,777-163,827,420)x1,7q21.11q36.3(81,023,059-159,330,583)x1,8p23.3q24.3(76,975-145,068,042)x3,17p13.3p12(228,468-11,368,092)x1,18p11.32q11.1(25,636-21,020,939)x1,20q11.21q11.22(32,605,651-181,259,502)x1,6p25.3q27(390,460-170,733,573)x3,8p23.3q24.3(76,975-145,068,042)x3,11p15.5q25(181,667-135,026,776)x3,12q24.31(120,402,027-123,958,408)x1,17p13.3p11.2(228,468-20,950,632)x1,17q11.2(29,636,751-arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr 20q11.21q13.13(32,485,425-50,925,406)x1
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr Xp11.4(39,668,611-40,501,143)x0,17q11.2(28,954,254-31,954,837)x1
arr Yp11.32q12(16,329-57,140,292)x0,21q22.12(34,940,730-35,256,527)x1
arr(1-22)x2,(XY)x1
arr(1-22,X)x2
arr 2q33.1q37.3(200,717,249-242,115,467)x1,11q14.1q25(85,582,129-135,026,776)x1
arr(1-22,X)x2
arr Yp11.32q12(16,329-57,140,292)x0,8q24.13q24.21(125,268,743-129,680,419)x2~4
arr 5q14.2q33.3(83,423,957-160,346,957)x1,5q35.1q35.3(173,186,085-181,454,555)x1,11q13.1q13.2(64,629,248-68,000,777)x1,19p13.2(12,552,726-13,148,714)x1,21q22.3(42,748,544-45,551,463)x1
arr Yp11.32q12(16,329-57,140,292)x0
arr(1-22,X)x2
arr(1-22)x2,(XY)x1

arr(1-22,X)x2
arr(1-22,X)x2
arr(1-22,X)x2
arr(1-22,X)x2
arr 7p22.3q36.3(35,894-159,330,583)x1
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr 5q14.3q33.3(87,440,733-159,425,976)x1
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr 1p31.1p22.3(77,764,180-85,847,636)x1,4q24(104,984,987-105,691,537)x1,7q31.1(113,590,585-114,658,964)x1,7q31.33q32.1(124,286,517-127,628,983)x1,7q33q34(137,026,726-140,352,698)x1,7q34q35(141,705,392-144,568,116)x1,7q35q36.1(146,984,621-
arr(1-22,X)x2
arr(1-22)x2,(XY)x1
arr(1-22,X)x2
arr(1-22)x2,(XY)x1
arr(1-22,X)x2
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr 11q22.3q24.3(103,848,926-128,842,300)x1
arr(1-22,X)x2
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr 4q24(104,883,334-105,442,687)x1
arr(1-22)x2,(XY)x1
arr 5q14.2q31.3(83,420,661-142,912,986)x1,20q11.21q13.31(32,384,795-57,562,209)x1
arr(1-22,X)x2
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr 5q14.3q34(87,987,266-161,012,846)x1
arr(1-22)x2,(XY)x1
arr(1-22,X)x2
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr 8p23.3q24.3(76,975-145,068,042)x3
arr(1-22)x2,(XY)x1
arr(1-22,X)x2
arr(1-22,X)x2
arr 6p23p22.3(14,193,454-15,539,941)x1,7q31.1q31.32(113,329,017-122,469,624)x1,7q31.33q32.2(126,689,468-129,606,124)x1,7q34q36.1(142,956,653-149,220,046)x1,12p13.2p13.1(11,435,030-13,043,687)x1,12q12(38,478,242-
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr Yp11.32q12(16,329-57,140,292)x0
arr(1-22,X)x2
arr Yp11.2q12(7,610,277-57,140,292)x0,5q14.3q33.3(87,638,585-160,465,229)x1,11p11.12(48,997,734-
arr(1-22,X)x2
arr(1-22)x2,(XY)x1
arr 2p24.1p23.3(23,699,949-25,789,903)x1,12q21.33q23.2(92,004,317-103,390,189)x1

arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr 5q14.3q31.1(83,522,118-131,916,447)x1,5q31.1(133,151,193-134,288,477)x1,5q31.1q31.2(135,624,520-
137,601,268)x1,5q31.3q32(142,694,381-148,992,452)x1,5q33.1q33.2(151,653,249-154,338,791)x1,5q33.2(155,057,083-
arr 3p26.3p25.2(33,146-12,673,798)x1,3p25.1q11.1(13,585,400-93,888,540)x1,5q14.2q31.2(82,313,756-
139,412,606)x1,5q31.2q33.1(139,919,870-153,087,811)x1,7q32.1q32.3(128,264,009-
131,644,839)x3,7q32.3q33(131,719,306-134,131,833)x1,7q33q34(134,167,068-139,075,199)x3,7q34q36.1(140,698,372-
arr Yp11.32q12(16,329-57,140,292)x0
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr(1-22,X)x2
arr(1-22)x2,(XY)x1
arr(1-22,X)x2
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr(1-22,X)x2
arr(1-22)x2,(XY)x1
arr 4q24(105,061,456-105,552,665)x1
arr Xq13.1q28(72,999,003-156,011,459)x1
arr(1-22,X)x2
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr 20q11.21q13.33(32,384,795-60,145,533)x1
arr(1-22)x2,(XY)x1
arr 20q11.21q11.23(32,225,895-38,428,609)x1
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr(1-22,X)x2
arr(1-22,X)x2
arr 21q22.12(34,712,084-35,944,072)x1
arr(1-22,X)x2
arr Yp11.32q12(16,329-57,140,292)x0,15q11.1q26.3(19,957,503-101,807,640)x3
arr(1-22)x2,(XY)x1
arr(1-22,X)x2
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr(1-22,X)x2
arr 20q11.21q13.31(32,624,498-57,562,209)x1
arr(1-22,X)x2
arr(1-22)x2,(XY)x1
arr(1-22,X)x2
arr 8p23.2q24.3(2,581,666-145,068,042)x3,19p13.3q13.43(94,911-58,579,710)x3
arr(1-22)x2,(XY)x1
arr(1-22,X)x2
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr(1-22,X)x2

arr(1-22)x2,(XY)x1
arr(1-22,X)x2
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1
arr(1-22)x2,(XY)x1

int G3 Human CGH Microarray (8x60k, Agilent Technologies)

· Human Cytogenetic Nomenclature; aCGH, array-based comparative genomic hybridization; N, normal; A, abnormal; hg38
age dysplasia; RCMD, refractory cytopenia with multilineage dysplasia; RARS, refractory anemia with ringed sideroblasts; R
λARS-T, RARS with thrombocytosis.



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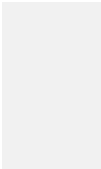
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, GRCh
.AEB,

Patient ID	Chromosome band	Start	Stop	Size (Mb)	Gain / Loss
#026	q11-q12.11	18544845	20440119	1,9	Gain
	q12.11-q12.12	20511839	24763687	4,3	Gain
	q12.12-q12.13	24824899	25847533	1	Gain
	q12.13-q12.3	25849289	30835598	5	Gain
	q13.1	31664376	32572721	0,9	Loss
	q13.2-q13.3	34556709	35149194	0,6	Loss
	q13.3	35190756	35198796	0	Gain
	q13.3-q14.2	35287335	49555063	14,3	Loss
	q14.3-q21.1	53646645	56086252	2,4	Loss
	q21.2	59126705	59531321	0,4	Loss
	q21.31-q31.3	61887291	89466951	27,6	Loss
	q31.3	89658314	93680622	4	Gain
	q31.3-q32.1	93699131	95541444	1,8	Loss
	q32.2-q32.3	98460264	98747948	0,3	Loss
	q32.3-q33.1	100224902	102938165	2,7	Loss
	q33.1	103453457	104094273	0,6	Loss
	q33.3-q34	107995455	110269932	2,3	Gain
	q34	110284512	114302034	4	Loss
	q11-q12.2	18544845	28026673	9,5	Gain
	q12.2-q13.1	28092711	31753393	3,7	Gain

#027	q13.1	31778818	31923805	0,1	Loss
	q13.1	31934279	32178937	0,2	Gain
	q13.1-q13.2	32205509	34693503	2,5	Loss
	q13.2-q14.11	34738109	40773999	6	Gain
	q14.11	40964447	41385529	0,4	Loss
	q14.11-q14.13	41393216	46380250	5	Gain
	q14.13-q14.3	46419482	51739755	5,3	Loss
	q32.1	95471066	95645135	0,2	Gain
	q34	111268759	114302034	3	Gain
#072	q12.11	20223377	21774751	1,6	Gain
	q12.13	26008550	26823821	0,8	Loss
	q12.13-q12.3	26843552	29141245	2,3	Gain
	q12.3	29153049	29574970	0,4	Loss
	q12.3	29598386	31092176	1,5	Gain
	q12.3	31109871	31349780	0,2	Loss
	q12.3-q13.1	31421872	31860544	0,4	Gain
	q13.1-q13.3	31902742	35957157	4,1	Loss
	q13.3	38324762	38995506	0,7	Loss
	q13.3-q14.11	39018273	42380430	3,4	Gain
	q14.11-q14.13	43688280	45546500	1,9	Gain
	q14.13-q31.1	45555482	82820718	37,3	Loss
	q31.1	82942590	83487314	0,5	Gain
	q31.1-q31.2	83666679	88672589	5	Loss
q31.3	89658314	92345411	2,7	Gain	



q31.3-q33.2 92419920 105600012 13,2 Loss

Genes shown in bold* are those commonly amplified and deleted in the three high-risk MDS patients sh

Genes

LINC00417, ANKRD20A9P, RNU6-55P, RNU6-76P, LINC00408, LINC00442, RNU6-52P, TUBA3C, LOC101928697, ANKRD26P3, LINC00421, TPTE2, MPHOSPH8, PSPC1, ZMYM5, ZMYM2, LINC01072, GJA3, GJB2, **GJB6***, **CRYL1***, **CRYL1***, **IFT88***, **IL17D***, **N6AMT2***, **XPO4***, **LINC00367***, **LATS2***, **SAP18***, **SKA3***, **MRPL57***, **LINC01046***, **MIPEPP3***, **LINC00539***, **ZDHHC20***, **MICU2***, **RNU6-59P***, **FGF9***, LINC00424, LINC00540, BASP1P1, SGCG, RNU6-58P, SACS, SACS-AS1, LINC00327, TNFRSF19, MIPEP, C1QTNF9B-AS1, C1QTNF9B, ANKRD20A19P, SPATA13, MIR2276, RNF17, CENPJ, TPTE2P1, PABPC3, AMER2, LINC00463, LINC01053, MTMR6, NUPL1, ATP8A2, RNU6-78P ATP8A2, SHISA2, RNF6, CDK8, WASF3, GPR12, **USP12***, **USP12-AS1***, **USP12-AS2***, **LINC00412***, **RPL21***, **SNORD102***, **SNORA27***, **RASL11A***, **GTF3A***, **MTIF3***, **RNU6-63P***, **LNK2***, **POLR1D***, **GSX1***, **PDX1-AS1***, **PDX1***, **ATP5EP2***, **CDX2***, **URAD***, **FLT3***, **PAN3-AS1***, **PAN3***, **RNU6-82P***, **FLT1***, **POMP***, **SLC46A3***, **RNU6-53P***, **MTUS2***, MTUS2-AS1, SLC7A1, **UBL3***, **LINC00297***, **LINC00572***, **LINC00544***, **KATNAL1***, **RNU6-64P***, RXFP2, EEF1DP3, FRY-AS1, **FRY***, **ZAR1L***, **BRCA2***, **N4BP2L1***, **N4BP2L2***, **MINOS1P1***, **N4BP2L2-IT2***

LINC00457*, NBEA

NBEA

NBEA, MAB21L1, DCLK1, CCDC169-SOHLH2, SOHLH2, CCDC169, RNU6-71P, SPG20, SPG20-AS1, CCNA1, SERTM1, RFXAP, SMAD9, ALG5, EXOSC8, SUPT20H, CSNK1A1L, LINC01048, LINC00547, POSTN, TRPC4, LINC00571, UFM1, LINC00437, LINC00366, FREM2, RNU6-56P, STOML3, PROSER1, NHLRC3, LHFP, COG6, MIR4305, LINC00332, LINC00548, LINC00598, FOXO1, MIR320D1, MRPS31, SLC25A15, TPTE2P5, MIR621, SUGT1P3, ELF1, WBP4, MIR3168, KBTBD6, LOC101929140, KBTBD7, MTRF1, NAA16, RNU6-57P, OR7E37P, RGCC, VWA8, MIR5006, VWA8-AS1, DGKH, AKAP11, TNFSF11, FAM216B, LINC01050, LINC00428, EPSTI1, DNAJC15, LINC00400, ENOX1, ENOX1-AS2, CCDC122, LACC1, LINC00284, SMIM2-AS1, SMIM2, SMIM2-IT1, MIR8079, SERP2, TUSC8, TSC22D1, TSC22D1-AS1, LINC00330, NUFIP1, GPALPP1, LOC101929259, GTF2F2, RNU6-69P, KCTD4, TPT1, SNORA31, TPT1-AS1, SLC25A30, SLC25A30-AS1, COG3, ERICH6B, LINC01055, SPERT, LINC00458, MIR1297, MIR5007

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LINC00358, LINC01075, LINC00448, LINC00376, LINC00395, OR7E156P, RNU6-81P, LOC102723968, MIR548X2, MIR4704, PCDH9, PCDH9-AS2, PCDH9-AS3, PCDH9-AS4, LINC00364, LINC00550, LINC00383, KLHL1, ATXN8OS, LINC00348, DACH1, MZT1, BORA, DIS3, PIBF1, RNU6-79P, KLF5, RNU6-66P, LINC00392, KLF12, LINC00381, LINC00347, CTAGE11P, TBC1D4, COMMD6, UCHL3, LMO7-AS1, LMO7, LMO7DN, LMO7DN-IT1, KCTD12, BTF3P11, IRG1, CLN5, FBXL3, MYCBP2, MYCBP2-AS1, SCEL, SCEL-AS1, SLAIN1, MIR3665, EDNRB-AS1, EDNRB, LINC01069, LINC00446, RNF219-AS1, POU4F1, RNF219, LINC00331, RBM26, RBM26-AS1, NDFIP2-AS1, NDFIP2, LINC01068, LINC01038, LINC00382, LINC00559, MIR622, LINC01049, RNU-75P, LINC00410, LINC00380, LINC00379, MIR17HG, MIR17, MIR18A, MIR19A, MIR20A, MIR19B1, MIR92A1, GPC5, GPC5-AS2, MIR48AS, GPC5-AS1, LINC00363

STK24, SLC15A1

PCCA, PCCA-AS1, GGACT, TMTC4, NALCN-AS1, LINC00411, NALCN, ITGBL1, FGF14, MIR2681, MIR4705, FGF14-IT1, FGF14-AS1, FGF14-AS2, TPP2, METTL21C, CCDC168, TEX30, KDELC1, BIVM, BIVM-ERCC5, ERCC5, METTL21EP

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LIG4, ABHD13, TNFSF13B, MYO16, MYO16-AS1, LINC00399, LINC00676, IRS2, LINC00396, COL4A1

COL4A1, COL4A2, MIR8073, COL4A2-AS1, RAB20, CARKD, CARS2, ING1, LINC00346, ANKRD10, LINC00431, LINC00368, ARHGEF7, ARHGEF7-AS1, LOC101060553, TEX29, LINC00354, LINC00403, SOX1, LINC01070, LOC101928730, LINC01044, SPACA7, TUBGCP3, ATP11AUN, ATP11A, ATP11A-AS1, MCF2L-AS1, MCF2L, F7, F10, F10-AS1, PROZ, PCID2, CUL4A, MIR8075, LAMP1, GRTP1, GRTP1-AS1, LOC101928841, ADPRHL1, DCUN1D2, TMCO3, TFDP1, ATP4B, GRK1, LINC00552, LINC00417, ANKRD20A9P, RNU6-55P, RNU6-76P, LINC00408, LINC00442, RNU6-52P, TUBA3C, LOC101928697, ANKRD26P3, LINC00421, TPTE2, MPHOSPH8, PSPC1, ZMYM5, ZMYM2, LINC01072, GJA3, GJB2, **GJB6***, **CRYL1***, **MIR4499***, **IFT88***, **IL17D***, **N6AMT2***, **XPO4***, **LINC00367***, **LATS2***, **SAP18***, **SKA3***, **MRPL57***, **LINC01046***, **MIPEPP3***, **LINC00539***, **ZDHHC20***, **MICU2***, **RNU6-59P***, **FGF9***, LINC00424, LINC00540, BASP1P1, SGCG, RNU6-58P, SACS, SACS-AS1, LINC00327, TNFRSF19, MIPEP, C1QTNF9B-AS1, C1QTNF9B, ANKRD20A19P, SPATA13, MIR2276, SPATA13-AS1, C1QTNF9, PARP4, TPTE2P6, ATP12A, RNF17, CENPJ, TPTE2P1, PABPC3, AMER2, LINC00463, LINC01053, MTMR6, NUPL1, ATP8A2, RNU6-78P, SHISA2, RNF6, CDK8, WASF3, GPR12, **USP12***, **USP12-AS1***, **USP12-AS2***, **FLT3***, **PAN3-AS1***, **PAN3***, **RNU6-82P***, **FLT1***, **POMP***, **SLC46A3***, **RNU6-53P***, **MTUS2***, MTUS2-AS1, SLC7A1, **UBL3***, **LINC00297***, **LINC00572***, **LINC00544***, **KATNAL1***, **RNU6-64P***, **LINC00426***, **LINC01058***, **HMGB1***, **USPL1***, **ALOX5AP***, **LINC00398***, LINC00545, TEX26-AS1, MEDAG, TEX26, HSPH1, B3GALT1, RXFP2

RXFP2, EEF1DP3

EEF1DP3, FRY-AS1, FRY

FRY*, **ZAK1L***, **BRCA2***, **N4BP2L1***, **N4BP2L2***, **MINOS1P1***, **N4BP2L2-IT2***, N4BP2L2, PDS5B, LINC00423, KL, STARD13, STARD13-AS, RFC3, **LINC00457***, NBEA, MAB21L1, DCLK1, SOHLH2, CCDC169-SOHLH2, CCDC169, RNU6-71P, SPG20, SPG20-AS1, CCNA1, SERTM1, RFXAP, SMAD9, ALG5, EXOSC8, SUPT20H, CSNK1A1L, LINC01048, LINC00547, POSTN, TRPC4, LINC00571, UFM1, LINC00437, LINC00366, FREM2, RNU6-56P, STOML3, PROSER1, NHLRC3, LHFP, COG6, MIR4305, LINC00332, LINC00548, LINC00598, ELF1, WBP4, MIR3168, KBTBD6, LOC101929140, KBTBD7, MTRF1, NAA16, RNU6-57P

OR7E37P, RGCC, VWA8, MIR5006, VWA8-AS1, DGKH, AKAP11, TNFSF11, FAM216B, LINC01050, LINC00428, EPST11, DNAJC15, LINC00400, ENOX1, ENOX1-AS2, CCDC122, LACC1, LINC00284, SMIM2-AS1, SMIM2, SMIM2-IT1, MIR8079, SERP2, TUSC8, TSC22D1, TSC22D1-AS1, LINC00330, NUFIP1, GPALPP1, LOC101929259, GTF2F2, RNU6-69P, KCTD4, TPT1, SNORA31, TPT1-AS1, SLC25A30, SLC25A30-AS1, COG3, ERICH6B, LINC01055, SPERT, SIAH3, ZC3H13, CPB2-AS1, CPB2, **LINC01198***, **LRCH1***, **ESD***, **HTR2A***, **HTR2A-AS1***, **LINC00562***, **SUCLA2***, **NUDT15***, **MED4***, **MED4-AS1***, **ITM2B***, **LINC00441***, **RB1***, **LPAR6***, **RCBTB2***, **LINC00462***, **CYSLTR2***, **FNDC3A***, **MLNR***, **CDADC1***, **CAB39L***, **SETDB2***, **PHF11***, **RCBTB1***, ARL11, EBPL, KPNA3, CTAGE10P, SPRYD7, DLEU2, MIR3613, TRIM13, KCNRG, MIR16-1, MIR15A, DLEU1, ST13P4, DLEU1-AS1, DLEU7, DLEU7-AS1, RNASEH2B-AS1, RNASEH2B, GUCY1B2, LINC00371, CLDN10, CLDN10-AS1, DZIP1

ARHGEF7, TEX29, LINC00354, LINC00403, SOX1, LINC01070, LOC101928730, LINC01044, SPACA7, TUBGCP3, ATP11AUN, ATP11A, ATP11A-AS1, MCF2L-AS1, MCF2L, F7, F10, F10-AS1, PROZ, PCID2, CUL4A, MIR8075, LAMP1, GRTP1, GRTP1-AS1, LOC101928841, ADPRHL1, DCUN1D2, TMC03, TFDP1, ATP4B, GRK1, LINC00552, TMEM255B, GAS6-AS1, GAS6, GAS6-**GJB6***, **CRYL1***, **MIR4499***, **IFT88***, **IL17D***, **N6AMT2***, **XPO4***, **LINC00367***, **LATS2***, **SAP18***, **SKA3***, **MRPL57***, **LINC01046***, **MIPEPP3***, **LINC00539***, **ZDHHC20***, **MICU2***, **RNU6-59P***, **FGF9***

ATP8A2, SHISA2, RNF6, CDK8, WASF3, GPR12

USP12*, **USP12-AS1***, **USP12-AS2***, **LINC00412***, **RPL21***, **SNORD102***, **SNORA27***, **RASL11A***, **GTF3A***, **MTIF3***, **RNU6-63P***, **LN2***, **POLR1D***, **GSX1***, **PDX1-AS1***, **PDX1***, **ATP5EP2***, **CDX2***, **URAD***, **FLT3***, **PAN3-**

MTUS2, MTUS2-AS1, SLC7A1

UBL3*, **LINC00297***, **LINC00572***, **LINC00544***, **KATNAL1***, **RNU6-64P***, **LINC00426***, **LINC01058***, **HMGB1***, **USPL1***, **ALOX5AP***, **LINC00398***, LINC00545, TEX26-AS1, MEDAG, TEX26

HSPH1, B3GALT1

RXFP2, EEF1DP3

EEF1DP3, FRY-AS1, **FRY***, **ZAR1L***, **BRCA2***, **N4BP2L1***, **N4BP2L2***, **MINOS1P1***, **N4BP2L2-IT2***, N4BP2L2, PDS5B, LINC00423, KL, STARD13, STARD13-AS, RFC3, LINC00457*, NBEA, MAB21L1, DCLK1

UFM1, LINC00437, LINC00366, FREM2, RNU6-56P, STOML3

PROSER1, NHLRC3, LHFP, COG6, MIR4305, LINC00332, LINC00548, LINC00598, FOXO1, MIR320D1, MRPS31, SLC25A15, TPTE2P5, MIR621, SUGT1P3, ELF1, WBP4, MIR3168, KBTBD6, LOC101929140, KBTBD7, MTRF1, NAA16, RNU6-57P, ENOX1, CCDC122, LACC1, LINC00284, SMIM2-AS1, SMIM2, SMIM2-IT1, MIR8079, SERP2, TUSC8, TSC22D1, TSC22D1-AS1, LINC00330, NUFIP1, GPALPP1, LOC101929259, GTF2F2, RNU6-69P, KCTD4, TPT1, SNORA31, TPT1-AS1, SLC25A30, ERICH6B, LINC01055, SPERT, SIAH3, ZC3H13, CPB2-AS1, CPB2, LCP1, LRRC63, LINC00563, KIAA0226L, RNU6-68P, **LINC01198***, **LRCH1***, **ESD***, **HTR2A***, **HTR2A-AS1***, **LINC00562***, **SUCLA2***, **NUDT15***, **MED4***, **MED4-AS1***, **ITM2B***, **LINC00441***, **RB1***, **LPAR6***, **RCBTB2***, **LINC00462***, **CYSLTR2***, **FNDC3A***, **MLNR***, **CDADC1***, **CAB39L***, **SETDB2***, **PHF11***, **RCBTB1***, ARL11, EBPL, KPNA3, CTAGE10P, SPRYD7, DLEU2, MIR3613, TRIM13, KCNRG, MIR16-1, MIR15A, DLEU1, ST13P4, DLEU1-AS1, DLEU7, DLEU7-AS1, RNASEH2B-AS1, RNASEH2B, GUCY1B2, LINC00371, FAM124A, SERPINE3, MIR5693, INTS6, INTS6-AS1, MIR4703, WDFY2, DHRS12, LINC00282, CCDC70, ATP7B, ALG11, UTP14C, NEK5, LOC101929657, NEK3, MRPS31P5, LOC103191607, THSD1, VPS36, CKAP2, TPTE2P3, HNRNPA1L2, SUGT1, LECT1, MIR759, PCDH8, OLFM4, LINC01065, LINC00558, LINC00458, MIR1297, MIR5007, PRR20C, PRR20B, PRR20A, PRR20D, PRR20E, PCDH17, LOC101926897, DIAPH3, DIAPH3-AS1, DIAPH3-AS2, LINC00434, TDRD3, LINC00378, MIR3169, PCDH20, LINC00358, LINC01075, LINC00448, LINC00376, LINC00395, OR7E156P, RNU6-81P, LOC102723968, MIR548X2, MIR4704, PCDH9, PCDH9-AS2, PCDH9-AS3, PCDH9-AS4, LINC00364, LINC00550, LINC00383, KLHL1, RNU6-67P

SLITRK1, LINC00333, LINC00375, LINC00351, RNU6-72P, SLITRK6, MIR4500HG, MIR4500, SLITRK5, LINC00397, LINC00433, LINC00559, MIR622, LINC01049, RNU6-70P, LINC00410, LINC00380, LINC00579, MIR117HG, MIR117, MIR118A, MIR119A, MIR20A, MIR10B1, MIR20A1, GDF5, GDF5-AS2

GPC5, MIR548AS, GPC5-AS1, LINC00363, GPC6, GPC6-AS2, GPC6-AS1, DCT, TGDS, GPR180, LOC101927248, SOX21, SOX21-AS1, LOC101927284, LINC00557, ABCC4, CLDN10, CLDN10-AS1, DZIP1, DNAJC3, UGGT2, HS6ST3, MIR4501, LINC00359, OXGR1, LINC00456, MBNL2, RAP2A, IPO5, FARP1, RNF113B, MIR3170, STK24, SLC15A1, DOCK9, DOCK9-AS1, RNU6-83P, DOCK9-AS2, UBAC2-AS1, UBAC2, GPR18, GPR183, FKSG29, MIR623, LINC01232, TM9SF2, LINC01039, CLYBL, MIR4306, CLYBL-AS2, CLYBL-AS1, LOC101927437, ZIC5, ZIC2, LINC00554, PCCA, PCCA-AS1, GGACT, TMTC4, NALCN-AS1,

owing chromothripsis in chromosome 13

Ensembl ID	Gene Symbol	Expression	mean.Diff	FC.R		Main Series (EXON)Series 1+2 (MILE)	Main Series Gamma value
ENSG00000142534	AC010619.2	up-regulated	0,688	1,05	1,01		0,511
ENSG00000198931	APRT	up-regulated	0,934	1,13	1,09		0,546
ENSG00000143153	ATP1B1	up-regulated	1,402	1,33	1,25		0,605
ENSG00000135390	ATP5G2	up-regulated	0,757	1,09	1,08		0,580
ENSG00000168487	BMP1	up-regulated	0,610	1,09	1,06		0,693
ENSG00000136261	BZW2	up-regulated	1,043	1,06	1,09		0,525
ENSG00000139637	C12orf10	up-regulated	0,447	1,06	1,17		0,502
ENSG00000177410	C20orf199	up-regulated	0,897	1,11	1,09		0,646
ENSG00000100220	C22orf28	up-regulated	0,692	1,08	1,06		0,581
ENSG00000084097	C4orf14	up-regulated	0,317	1,06	1,05		0,526
ENSG00000224032	C5orf26	up-regulated	1,103	1,13	1,08		0,661
ENSG00000204387	C6orf48	up-regulated	1,575	1,20	1,10		0,562
ENSG00000164615	CAMLG	up-regulated	0,671	1,09	1,05		0,602
ENSG00000100814	CCNB1IP1	up-regulated	1,128	1,16	1,12		0,700
ENSG00000113328	CCNG1	up-regulated	0,750	1,09	1,07		0,648
ENSG00000197766	CFD	up-regulated	2,558	1,25	1,25		0,538
ENSG00000140931	CMTM3	up-regulated	1,154	1,16	1,10		0,651
ENSG00000129187	DCTD	up-regulated	0,900	1,13	1,14		0,671
ENSG00000213722	DDAH2	up-regulated	1,120	1,17	1,10		0,612
ENSG00000244038	DDOST	up-regulated	0,513	1,07	1,06		0,578
ENSG00000095059	DHPS	up-regulated	0,877	1,14	1,12		0,541
ENSG00000132153	DHX30	up-regulated	0,538	1,07	1,04		0,644
ENSG00000167658	EEF2	up-regulated	0,695	1,07	1,06		0,761
ENSG00000178982	EIF3K	up-regulated	0,818	1,08	1,05		0,547
ENSG00000160688	FLAD1	up-regulated	0,436	1,08	1,09		0,513
ENSG00000136877	FPGS	up-regulated	0,875	1,14	1,06		0,639
ENSG00000130005	GAMT	up-regulated	0,427	1,08	1,07		0,606
ENSG00000105373	GLTSCR2	up-regulated	0,573	1,06	1,04		0,675
ENSG00000060558	GNA15	up-regulated	1,218	1,23	1,10		0,552
ENSG00000204628	GNB2L1	up-regulated	0,506	1,04	1,04		0,581
ENSG00000233276	GPX1	up-regulated	1,679	1,17	1,12		0,632
ENSG00000125651	GTF2F1	up-regulated	0,590	1,09	1,11		0,500
ENSG00000132475	H3F3B	up-regulated	1,091	1,11	1,06		0,523
ENSG00000169567	HINT1	up-regulated	1,530	1,16	1,04		0,725
ENSG00000158373	HIST1H2BD	up-regulated	1,479	1,21	1,20		0,520
ENSG00000096384	HSP90AB1	up-regulated	0,637	1,06	1,13		0,615
ENSG00000178035	IMPDH2	up-regulated	0,983	1,13	1,10		0,655
ENSG00000111716	LDHB	up-regulated	0,820	1,09	1,04		0,615
ENSG00000050426	LETMD1	up-regulated	0,783	1,12	1,09		0,593
ENSG00000100068	LRP5L	up-regulated	0,620	1,09	1,12		0,608
ENSG00000140280	LYSMD2	up-regulated	0,404	1,06	1,09		0,521
ENSG00000128626	MRPS12	up-regulated	0,778	1,13	1,04		0,592
ENSG00000103510	MYST1	up-regulated	0,629	1,08	1,05		0,556
ENSG00000181163	NPM1	up-regulated	0,664	1,06	1,06		0,644
ENSG00000125458	NT5C	up-regulated	0,653	1,10	1,10		0,585
ENSG00000090470	PDCD7	up-regulated	0,380	1,07	1,06		0,507
ENSG00000107438	PDLIM1	up-regulated	0,996	1,24	1,17		0,513
ENSG00000089220	PEBP1	up-regulated	1,047	1,15	1,07		0,673
ENSG00000141682	PMAIP1	up-regulated	2,018	1,27	1,14		0,575
ENSG00000196850	PPTC7	up-regulated	0,940	1,11	1,16		0,608

ENSG00000129084	PSMA1	up-regulated	0,492	1,05	1,05	0,548
ENSG00000179950	PUF60	up-regulated	0,655	1,09	1,04	0,591
ENSG00000172794	RAB37	up-regulated	0,993	1,15	1,16	0,587
ENSG00000169241	RAG1AP1	up-regulated	0,601	1,13	1,09	0,566
ENSG00000068028	RASSF1	up-regulated	0,747	1,07	1,07	0,559
ENSG00000180198	RCC1	up-regulated	0,991	1,13	1,09	0,721
ENSG00000174577	RP11-209A2.1	up-regulated	0,785	1,11	1,06	0,609
ENSG00000197958	RPL12	up-regulated	0,656	1,07	1,05	0,587
ENSG00000167526	RPL13	up-regulated	0,709	1,12	1,04	0,627
ENSG00000142541	RPL13A	up-regulated	0,430	1,05	1,04	0,597
ENSG00000063177	RPL18	up-regulated	0,658	1,05	1,04	0,610
ENSG00000116251	RPL22	up-regulated	0,617	1,06	1,08	0,529
ENSG00000108107	RPL28	up-regulated	0,390	1,04	1,04	0,549
ENSG00000100316	RPL3	up-regulated	0,746	1,09	1,07	0,672
ENSG00000083845	RPS5	up-regulated	1,190	1,11	1,02	0,601
ENSG00000137154	RPS6	up-regulated	0,723	1,04	1,02	0,510
ENSG00000114120	SLC25A36	up-regulated	1,261	1,14	1,09	0,593
ENSG00000005022	SLC25A5	up-regulated	0,654	1,06	1,05	0,631
ENSG00000246493	SNHG8	up-regulated	1,727	1,23	1,11	0,625
ENSG00000108064	TFAM	up-regulated	0,624	1,09	1,08	0,582
ENSG00000003436	TFPI	up-regulated	1,403	1,39	1,25	0,619
ENSG00000105677	TMEM147	up-regulated	1,096	1,18	1,07	0,706
ENSG000000011638	TMEM159	up-regulated	1,308	1,27	1,15	0,689
ENSG00000173726	TOMM20	up-regulated	0,780	1,12	1,06	0,628
ENSG00000184428	TOP1MT	up-regulated	1,001	1,09	1,21	0,605
ENSG00000102804	TSC22D1	up-regulated	1,004	1,13	1,17	0,721
ENSG000000011295	TTC19	up-regulated	0,554	1,06	1,06	0,586
ENSG00000128791	TWSG1	up-regulated	0,955	1,13	1,15	0,711
ENSG00000170142	UBE2E1	up-regulated	0,760	1,07	1,04	0,580
ENSG00000120686	UFM1	up-regulated	0,709	1,09	1,08	0,539
ENSG000000053501	USE1	up-regulated	0,852	1,13	1,08	0,590
ENSG00000205185	ZBTB10	up-regulated	1,076	1,18	1,19	0,610
ENSG00000157657	ZNF618	up-regulated	0,514	1,09	1,09	0,526
ENSG00000173517	AC107883.1	down-regulated	-1,029	-1,13	-1,10	-0,663
ENSG00000166971	AKTIP	down-regulated	-2,157	-1,55	-1,30	-0,551
ENSG00000248048	AL034374.4	down-regulated	-1,930	-1,37	-1,15	-0,563
ENSG00000138635	ARHGAP24	down-regulated	-2,254	-1,49	-1,24	-0,712
ENSG00000141337	ARSG	down-regulated	-0,676	-1,09	-1,20	-0,532
ENSG00000064270	ATP2C2	down-regulated	-1,549	-1,24	-1,37	-0,699
ENSG00000102010	BMX	down-regulated	-2,051	-1,26	-1,44	-0,547
ENSG00000196227	C20orf177	down-regulated	-1,618	-1,35	-1,23	-0,598
ENSG00000167434	CA4	down-regulated	-1,099	-1,10	-1,47	-0,658
ENSG00000149679	CABLES2	down-regulated	-0,640	-1,09	-1,06	-0,559
ENSG00000007125	CEACAM21	down-regulated	-0,956	-1,16	-1,22	-0,610
ENSG00000170956	CEACAM3	down-regulated	-1,563	-1,19	-1,22	-0,568
ENSG00000133063	CHIT1	down-regulated	-1,996	-1,31	-1,89	-0,611
ENSG00000166523	CLEC4E	down-regulated	-3,460	-1,38	-1,43	-0,591
ENSG00000070371	CLTCL1	down-regulated	-1,709	-1,34	-1,22	-0,667
ENSG00000124490	CRISP2	down-regulated	-0,671	-1,16	-1,48	-0,569
ENSG00000147408	CSGALNACT1	down-regulated	-1,804	-1,25	-1,35	-0,596
ENSG00000035664	DAPK2	down-regulated	-1,011	-1,09	-1,19	-0,530
ENSG00000197653	DNAH10	down-regulated	-0,388	-1,07	-1,09	-0,543
ENSG00000129173	E2F8	down-regulated	-1,137	-1,18	-1,15	-0,596

ENSG00000198734	F5	down-regulated	-1,685	-1,33	-1,31	-0,535
ENSG00000119402	FBXW2	down-regulated	-0,559	-1,09	-1,09	-0,553
ENSG00000139132	FGD4	down-regulated	-1,489	-1,25	-1,28	-0,523
ENSG00000173221	GLRX	down-regulated	-1,576	-1,30	-1,16	-0,684
ENSG00000163328	GPR155	down-regulated	-0,801	-1,16	-1,12	-0,522
ENSG00000100084	HIRA	down-regulated	-0,634	-1,07	-1,09	-0,594
ENSG00000204390	HSPA1L	down-regulated	-1,202	-1,25	-1,16	-0,579
ENSG00000074706	IPCEF1	down-regulated	-1,724	-1,33	-1,33	-0,605
ENSG00000157551	KCNJ15	down-regulated	-2,204	-1,33	-1,44	-0,511
ENSG00000213809	KLRK1	down-regulated	-1,734	-1,26	-1,13	-0,519
ENSG00000170866	LILRA3	down-regulated	-1,426	-1,24	-1,39	-0,533
ENSG00000128594	LRRC4	down-regulated	-1,187	-1,21	-1,31	-0,630
ENSG00000111261	MANSC1	down-regulated	-2,594	-1,48	-1,44	-0,586
ENSG00000100030	MAPK1	down-regulated	-0,651	-1,07	-1,08	-0,538
ENSG00000099308	MAST3	down-regulated	-0,623	-1,06	-1,09	-0,517
ENSG00000008516	MMP25	down-regulated	-1,218	-1,10	-1,36	-0,581
ENSG00000137679	MMP27	down-regulated	-0,518	-1,10	-1,16	-0,526
ENSG00000166833	NAV2	down-regulated	-0,710	-1,13	-1,13	-0,544
ENSG00000184613	NELL2	down-regulated	-1,801	-1,44	-1,32	-0,540
ENSG00000235568	NFAM1	down-regulated	-0,759	-1,07	-1,12	-0,505
ENSG00000091106	NLRC4	down-regulated	-2,311	-1,32	-1,28	-0,532
ENSG00000213965	NUDT19	down-regulated	-0,564	-1,04	-1,08	-0,560
ENSG00000229314	ORM1	down-regulated	-3,272	-1,68	-2,13	-0,673
ENSG00000228278	ORM2	down-regulated	-1,958	-1,43	-1,52	-0,672
ENSG00000117119	PADI2	down-regulated	-1,535	-1,18	-1,09	-0,520
ENSG00000123836	PFKFB2	down-regulated	-1,565	-1,16	-1,22	-0,542
ENSG00000188313	PLSCR1	down-regulated	-1,121	-1,12	-1,13	-0,521
ENSG00000136040	PLXNC1	down-regulated	-1,816	-1,16	-1,22	-0,526
ENSG00000086717	PPEF1	down-regulated	-0,789	-1,21	-1,16	-0,534
ENSG00000132356	PRKAA1	down-regulated	-0,979	-1,11	-1,09	-0,581
ENSG00000149177	PTPRJ	down-regulated	-2,012	-1,22	-1,19	-0,642
ENSG00000131242	RAB11FIP4	down-regulated	-0,867	-1,09	-1,20	-0,547
ENSG00000172579	RASGRP1	down-regulated	-1,505	-1,31	-1,39	-0,552
ENSG00000104918	RETN	down-regulated	-1,765	-1,23	-1,37	-0,526
ENSG00000067836	ROGDI	down-regulated	-0,932	-1,11	-1,11	-0,593
ENSG00000163191	S100A11	down-regulated	-1,932	-1,17	-1,10	-0,557
ENSG00000164466	SFXN1	down-regulated	-1,015	-1,10	-1,14	-0,554
ENSG00000198053	SIRPA	down-regulated	-1,240	-1,14	-1,09	-0,591
ENSG00000101307	SIRPB1	down-regulated	-1,513	-1,20	-1,19	-0,532
ENSG00000163053	SLC16A14	down-regulated	-1,113	-1,20	-1,52	-0,659
ENSG00000183032	SLC25A21	down-regulated	-2,043	-1,32	-1,54	-0,563
ENSG00000168807	SNTB2	down-regulated	-1,042	-1,10	-1,27	-0,528
ENSG00000197321	SVIL	down-regulated	-1,105	-1,13	-1,20	-0,560
ENSG00000131018	SYNE1	down-regulated	-2,143	-1,31	-1,27	-0,689
ENSG00000054654	SYNE2	down-regulated	-1,883	-1,36	-1,14	-0,550
ENSG00000170006	TMEM154	down-regulated	-1,312	-1,25	-1,19	-0,509
ENSG00000135048	TMEM2	down-regulated	-1,349	-1,15	-1,19	-0,601
ENSG00000119121	TRPM6	down-regulated	-1,259	-1,32	-1,16	-0,570
ENSG00000214049	UCA1	down-regulated	-1,504	-1,33	-1,24	-0,739
ENSG00000163812	ZDHHC3	down-regulated	-0,748	-1,13	-1,07	-0,621
ENSG00000196839	ADA	up-regulated	1,366	1,16	1,23	0,552
ENSG00000154188	ANGPT1	up-regulated	1,964	1,52	1,42	0,718
ENSG00000174456	C12orf76	up-regulated	0,595	1,14	1,17	0,546

ENSG00000136436	CALCOCO2	up-regulated	1,082	1,13	1,09	0,633
ENSG00000114107	CEP70	up-regulated	0,746	1,05	1,16	0,509
ENSG00000106665	CLIP2	up-regulated	0,641	1,09	1,22	0,568
ENSG00000171502	COL24A1	up-regulated	0,778	1,15	1,42	0,659
ENSG00000172889	EGFL7	up-regulated	0,507	1,09	1,16	0,509
ENSG00000130811	EIF3G	up-regulated	0,547	1,06	1,06	0,608
ENSG00000205593	FAM116B	up-regulated	0,730	1,12	1,16	0,653
ENSG00000122025	FLT3	up-regulated	3,128	1,54	1,41	0,600
ENSG00000159618	GPR114	up-regulated	0,723	1,14	1,16	0,545
ENSG00000105997	HOXA3	up-regulated	0,698	1,09	1,29	0,601
ENSG00000122592	HOXA7	up-regulated	1,065	1,14	1,45	0,578
ENSG00000078399	HOXA9	up-regulated	1,319	1,17	1,55	0,592
ENSG00000173917	HOXB2	up-regulated	1,322	1,21	1,35	0,543
ENSG00000120093	HOXB3	up-regulated	1,021	1,09	1,47	0,563
ENSG00000105655	ISYNA1	up-regulated	1,306	1,21	1,14	0,713
ENSG00000226777	KIAA0125	up-regulated	1,141	1,12	1,28	0,542
ENSG00000143995	MEIS1	up-regulated	2,128	1,10	1,72	0,618
ENSG00000153944	MSI2	up-regulated	1,479	1,21	1,21	0,661
ENSG00000110841	PPFIBP1	up-regulated	0,851	1,21	1,09	0,633
ENSG00000076067	RBMS2	up-regulated	0,879	1,16	1,05	0,619
ENSG00000147465	STAR	up-regulated	0,933	1,04	1,35	0,514
ENSG00000125247	TMTC4	up-regulated	0,731	1,04	1,15	0,512
ENSG00000105849	TWISTNB	up-regulated	0,984	1,10	1,17	0,531
ENSG00000138772	ANXA3	down-regulated	-2,997	-1,20	-1,44	-0,576
ENSG00000118520	ARG1	down-regulated	-3,367	-1,36	-1,29	-0,608
ENSG00000120306	C5orf32	down-regulated	-1,610	-1,21	-1,29	-0,616
ENSG00000164047	CAMP	down-regulated	-3,746	-1,44	-1,77	-0,605
ENSG00000185275	CD24L4	down-regulated	-3,149	-1,22	-1,27	-0,569
ENSG00000158825	CDA	down-regulated	-2,150	-1,19	-1,28	-0,539
ENSG00000086548	CEACAM6	down-regulated	-3,244	-1,21	-1,27	-0,550
ENSG00000124469	CEACAM8	down-regulated	-3,481	-1,18	-1,21	-0,647
ENSG00000133048	CHI3L1	down-regulated	-3,794	-1,33	-1,84	-0,615
ENSG00000136026	CKAP4	down-regulated	-1,177	-1,06	-1,33	-0,508
ENSG00000166527	CLEC4D	down-regulated	-3,465	-1,33	-1,65	-0,570
ENSG00000096006	CRISP3	down-regulated	-5,378	-1,42	-2,28	-0,668
ENSG00000012660	ELOVL5	down-regulated	-0,689	-1,06	-1,09	-0,555
ENSG00000115271	GCA	down-regulated	-1,723	-1,16	-1,27	-0,617
ENSG00000151948	GLT1D1	down-regulated	-2,828	-1,21	-1,57	-0,634
ENSG00000197711	HP	down-regulated	-3,238	-1,22	-1,51	-0,571
ENSG00000144711	IQSEC1	down-regulated	-0,846	-1,09	-1,16	-0,601
ENSG00000169896	ITGAM	down-regulated	-1,679	-1,09	-1,17	-0,571
ENSG00000148346	LCN2	down-regulated	-3,632	-1,41	-1,65	-0,663
ENSG00000012223	LTF	down-regulated	-2,942	-1,07	-1,41	-0,521
ENSG00000179087	MGAM	down-regulated	-3,324	-1,23	-1,48	-0,645
ENSG00000118113	MMP8	down-regulated	-3,093	-1,20	-1,43	-0,640
ENSG00000100985	MMP9	down-regulated	-3,626	-1,21	-1,67	-0,641
ENSG00000008438	PGLYRP1	down-regulated	-3,186	-1,26	-1,72	-0,578
ENSG00000121316	PLBD1	down-regulated	-3,521	-1,23	-1,53	-0,679
ENSG00000115828	QPCT	down-regulated	-2,079	-1,16	-1,74	-0,553
ENSG00000168461	RAB31	down-regulated	-1,894	-1,08	-1,27	-0,565
ENSG00000163221	S100A12	down-regulated	-2,950	-1,24	-1,35	-0,694
ENSG00000163220	S100A9	down-regulated	-2,066	-1,13	-1,10	-0,643
ENSG00000148175	STOM	down-regulated	-1,414	-1,09	-1,16	-0,563

ENSG00000134827	TCN1	down-regulated	-3,635	-1,30	-1,64	-0,583
ENSG00000070540	WIPI1	down-regulated	-1,504	-1,17	-1,23	-0,671
ENSG00000127837	<i>AAMP</i>	up-regulated	0,544	1,08		0,502
ENSG00000143322	<i>ABL2</i>	up-regulated	0,487	1,09		0,536
ENSG00000230853	<i>AC004159.1</i>	up-regulated	0,656	1,13		0,543
ENSG00000189343	<i>AC004448.4</i>	up-regulated	1,012	1,11		0,606
ENSG00000205940	<i>AC006226.1</i>	up-regulated	0,635	1,13		0,548
ENSG00000225695	<i>AC007272.3</i>	up-regulated	0,521	1,04		0,544
ENSG00000224646	<i>AC007387.1</i>	up-regulated	1,662	1,23		0,616
ENSG00000232856	<i>AC008038.1</i>	up-regulated	1,730	1,18		0,574
ENSG00000226696	<i>AC008746.4</i>	up-regulated	0,778	1,07		0,502
ENSG00000242409	<i>AC008850.2</i>	up-regulated	0,840	1,07		0,503
ENSG00000213774	<i>AC010904.1</i>	up-regulated	0,667	1,15		0,558
ENSG00000213553	<i>AC011247.3</i>	up-regulated	0,757	1,08		0,506
ENSG00000240638	<i>AC011994.2</i>	up-regulated	1,168	1,12		0,636
ENSG00000247357	<i>AC012306.1</i>	up-regulated	0,590	1,07		0,546
ENSG00000230076	<i>AC016708.1</i>	up-regulated	1,229	1,11		0,566
ENSG00000234624	<i>AC016894.2</i>	up-regulated	0,903	1,09		0,561
ENSG00000237004	<i>AC018648.1</i>	up-regulated	0,818	1,11		0,524
ENSG00000180632	<i>AC025257.1</i>	up-regulated	1,178	1,14		0,590
ENSG00000234125	<i>AC079857.3</i>	up-regulated	0,990	1,16		0,614
ENSG00000233380	<i>AC090079.1</i>	up-regulated	0,489	1,05		0,583
ENSG00000213261	<i>AC093106.2</i>	up-regulated	0,911	1,08		0,590
ENSG00000245893	<i>AC103705.3</i>	up-regulated	1,542	1,19		0,538
ENSG00000244277	<i>AC104598.1</i>	up-regulated	1,520	1,24		0,607
ENSG00000185900	<i>AC113191.1</i>	up-regulated	1,030	1,14		0,610
ENSG00000244867	<i>AC134349.2</i>	up-regulated	0,569	1,14		0,517
ENSG00000237676	<i>AC138972.1</i>	up-regulated	0,832	1,10		0,503
ENSG00000223694	<i>ADH5P3</i>	up-regulated	0,520	1,12		0,531
ENSG00000181915	<i>ADO</i>	up-regulated	0,486	1,05		0,504
ENSG00000117448	<i>AKR1A1</i>	up-regulated	1,059	1,15		0,592
ENSG00000099251	<i>AL133216.6</i>	up-regulated	1,584	1,16		0,538
ENSG00000246810	<i>AL450998.1</i>	up-regulated	1,214	1,26		0,515
ENSG00000215014	<i>AL645728.1</i>	up-regulated	1,444	1,29		0,525
ENSG00000119523	<i>ALG2</i>	up-regulated	0,698	1,12		0,546
ENSG00000144233	<i>AMMECR1L</i>	up-regulated	0,452	1,09		0,530
ENSG00000213885	<i>AP001340.1</i>	up-regulated	0,601	1,05		0,567
ENSG00000165527	<i>ARF6</i>	up-regulated	0,750	1,10		0,518
ENSG00000138175	<i>ARL3</i>	up-regulated	0,617	1,09		0,522
ENSG00000198960	<i>ARMCX6</i>	up-regulated	0,444	1,06		0,508
ENSG00000030110	<i>BAK1</i>	up-regulated	0,683	1,10		0,617
ENSG00000185825	<i>BCAP31</i>	up-regulated	0,617	1,09		0,511
ENSG00000166619	<i>BLCAP</i>	up-regulated	0,599	1,08		0,577
ENSG00000108578	<i>BLMH</i>	up-regulated	0,614	1,09		0,561
ENSG00000168000	<i>BSCL2</i>	up-regulated	0,572	1,10		0,524
ENSG00000130303	<i>BST2</i>	up-regulated	0,858	1,20		0,525
ENSG00000149823	<i>C11orf2</i>	up-regulated	0,735	1,08		0,582
ENSG00000105771	<i>C19orf61</i>	up-regulated	0,370	1,06		0,510
ENSG00000163875	<i>C1orf149</i>	up-regulated	0,503	1,06		0,583
ENSG00000143612	<i>C1orf43</i>	up-regulated	0,687	1,09		0,711
ENSG00000183172	<i>C22orf32</i>	up-regulated	0,814	1,12		0,545
ENSG00000138085	<i>C2orf28</i>	up-regulated	0,403	1,05		0,510
ENSG00000163378	<i>C3orf64</i>	up-regulated	0,792	1,08		0,559

ENSG00000180408	<i>C4orf52</i>	up-regulated	0,353	1,06	0,508
ENSG00000182307	<i>C8orf33</i>	up-regulated	0,527	1,08	0,544
ENSG00000164967	<i>C9orf23</i>	up-regulated	0,831	1,14	0,594
ENSG00000067955	<i>CBFB</i>	up-regulated	0,602	1,06	0,571
ENSG00000180329	<i>CCDC43</i>	up-regulated	0,832	1,12	0,666
ENSG00000115484	<i>CCT4</i>	up-regulated	0,600	1,09	0,518
ENSG00000177697	<i>CD151</i>	up-regulated	1,321	1,15	0,613
ENSG00000110848	<i>CD69</i>	up-regulated	1,388	1,15	0,509
ENSG00000002588	<i>CD99</i>	up-regulated	1,688	1,28	0,749
ENSG00000111328	<i>CDK2AP1</i>	up-regulated	0,890	1,13	0,593
ENSG00000136807	<i>CDK9</i>	up-regulated	0,620	1,11	0,523
ENSG00000171310	<i>CHST11</i>	up-regulated	1,257	1,15	0,749
ENSG00000099622	<i>CIRBP</i>	up-regulated	0,910	1,12	0,523
ENSG00000100528	<i>CNIH</i>	up-regulated	1,086	1,14	0,680
ENSG00000155508	<i>CNOT8</i>	up-regulated	0,986	1,11	0,557
ENSG00000163626	<i>COX18</i>	up-regulated	0,569	1,07	0,642
ENSG00000163703	<i>CRELD1</i>	up-regulated	0,402	1,06	0,513
ENSG00000144655	<i>CSRNP1</i>	up-regulated	1,223	1,21	0,524
ENSG00000243829	<i>CTB-33G10.1</i>	up-regulated	0,927	1,12	0,638
ENSG00000233913	<i>CTC-575D19.1</i>	up-regulated	1,266	1,27	0,618
ENSG00000178464	<i>CTD-2192J16.1</i>	up-regulated	1,087	1,09	0,617
ENSG00000168036	<i>CTNNB1</i>	up-regulated	0,769	1,09	0,541
ENSG00000001630	<i>CYP51A1</i>	up-regulated	0,527	1,10	0,521
ENSG00000129562	<i>DAD1</i>	up-regulated	0,742	1,06	0,492
ENSG00000168209	<i>DDIT4</i>	up-regulated	1,698	1,18	0,515
ENSG00000108654	<i>DDX5</i>	up-regulated	0,595	1,04	0,603
ENSG00000108863	<i>DUSP3</i>	up-regulated	0,749	1,10	0,520
ENSG00000127334	<i>DYRK2</i>	up-regulated	0,642	1,09	0,612
ENSG00000104525	<i>EEF1D</i>	up-regulated	0,614	1,08	0,627
ENSG00000084623	<i>EIF3I</i>	up-regulated	0,432	1,06	0,526
ENSG00000106682	<i>EIF4H</i>	up-regulated	0,492	1,06	0,511
ENSG00000134759	<i>ELP2</i>	up-regulated	0,767	1,05	0,514
ENSG00000134531	<i>EMP1</i>	up-regulated	1,986	1,39	0,552
ENSG00000142227	<i>EMP3</i>	up-regulated	1,144	1,15	0,534
ENSG00000157557	<i>ETS2</i>	up-regulated	0,912	1,11	0,530
ENSG00000178896	<i>EXOSC4</i>	up-regulated	0,795	1,15	0,562
ENSG00000132635	<i>FAM113A</i>	up-regulated	0,452	1,06	0,502
ENSG00000166595	<i>FAM96B</i>	up-regulated	1,085	1,13	0,619
ENSG00000142751	<i>GPN2</i>	up-regulated	0,740	1,10	0,571
ENSG00000215326	<i>GPXP2</i>	up-regulated	1,014	1,17	0,675
ENSG00000132463	<i>GRSF1</i>	up-regulated	0,545	1,07	0,521
ENSG00000105447	<i>GRWD1</i>	up-regulated	0,858	1,13	0,617
ENSG00000188375	<i>H3F3C</i>	up-regulated	1,326	1,13	0,519
ENSG00000146066	<i>HIGD2A</i>	up-regulated	0,987	1,15	0,501
ENSG00000203812	<i>HIST2H2AA4</i>	up-regulated	2,637	1,21	0,555
ENSG00000197837	<i>HIST4H4</i>	up-regulated	0,994	1,24	0,571
ENSG00000182952	<i>HMGN4</i>	up-regulated	0,818	1,06	0,537
ENSG00000089289	<i>IGBP1</i>	up-regulated	0,820	1,09	0,624
ENSG00000125877	<i>ITPA</i>	up-regulated	0,418	1,05	0,504
ENSG00000121774	<i>KHDRBS1</i>	up-regulated	0,358	1,06	0,541
ENSG00000081791	<i>KIAA0141</i>	up-regulated	0,625	1,08	0,509
ENSG00000198841	<i>KTI12</i>	up-regulated	1,076	1,13	0,615
ENSG00000219507	<i>L29074.3</i>	up-regulated	0,858	1,09	0,618

ENSG00000240311	<i>LA16c-306E5.1</i>	up-regulated	0,745	1,11	0,605
ENSG00000213684	<i>LDHBP</i>	up-regulated	0,401	1,12	0,513
ENSG00000169223	<i>LMAN2</i>	up-regulated	0,703	1,09	0,537
ENSG00000204392	<i>LSM2</i>	up-regulated	0,520	1,13	0,533
ENSG00000142733	<i>MAP3K6</i>	up-regulated	0,386	1,06	0,569
ENSG00000007264	<i>MATK</i>	up-regulated	0,362	1,04	0,509
ENSG00000015479	<i>MATR3</i>	up-regulated	0,534	1,06	0,546
ENSG00000180398	<i>MCFD2</i>	up-regulated	0,449	1,06	0,574
ENSG00000042425	<i>MED17</i>	up-regulated	0,972	1,14	0,607
ENSG00000197345	<i>MRPL21</i>	up-regulated	0,481	1,07	0,567
ENSG00000204568	<i>MRPS18B</i>	up-regulated	0,643	1,11	0,590
ENSG00000112996	<i>MRPS30</i>	up-regulated	0,511	1,06	0,542
ENSG00000244020	<i>MT1P2</i>	up-regulated	0,719	1,15	0,540
ENSG00000163738	<i>MTHFD2L</i>	up-regulated	0,422	1,09	0,563
ENSG00000087053	<i>MTMR2</i>	up-regulated	0,467	1,09	0,564
ENSG00000109065	<i>NAT9</i>	up-regulated	0,942	1,14	0,637
ENSG00000204386	<i>NEU1</i>	up-regulated	0,768	1,14	0,539
ENSG00000146232	<i>NFKBIE</i>	up-regulated	0,933	1,24	0,505
ENSG00000090273	<i>NUDC</i>	up-regulated	0,783	1,11	0,579
ENSG00000109180	<i>OCIAD1</i>	up-regulated	0,475	1,06	0,553
ENSG00000198856	<i>OSTC</i>	up-regulated	0,820	1,07	0,553
ENSG00000110218	<i>PANX1</i>	up-regulated	1,098	1,17	0,575
ENSG00000101856	<i>PGRMC1</i>	up-regulated	0,607	1,05	0,593
ENSG00000060642	<i>PIGV</i>	up-regulated	0,643	1,09	0,701
ENSG00000105355	<i>PLIN3</i>	up-regulated	0,826	1,12	0,537
ENSG00000165688	<i>PMPCA</i>	up-regulated	0,722	1,09	0,551
ENSG00000128059	<i>PPAT</i>	up-regulated	0,880	1,17	0,518
ENSG00000117751	<i>PPP1R8</i>	up-regulated	0,646	1,09	0,695
ENSG00000104695	<i>PPP2CB</i>	up-regulated	0,817	1,15	0,563
ENSG00000105568	<i>PPP2R1A</i>	up-regulated	0,678	1,10	0,554
ENSG00000152784	<i>PRDM8</i>	up-regulated	0,741	1,14	0,543
ENSG00000171867	<i>PRNP</i>	up-regulated	0,733	1,13	0,534
ENSG00000171862	<i>PTEN</i>	up-regulated	0,463	1,05	0,536
ENSG00000112655	<i>PTK7</i>	up-regulated	0,749	1,13	0,646
ENSG00000187514	<i>PTMA</i>	up-regulated	0,768	1,07	0,508
ENSG00000214182	<i>PTMAP5</i>	up-regulated	0,685	1,06	0,548
ENSG00000172053	<i>QARS</i>	up-regulated	0,588	1,07	0,550
ENSG00000213335	<i>QTRT1</i>	up-regulated	0,566	1,10	0,507
ENSG00000109113	<i>RAB34</i>	up-regulated	0,860	1,15	0,598
ENSG00000168118	<i>RAB4A</i>	up-regulated	0,978	1,12	0,624
ENSG00000125970	<i>RALY</i>	up-regulated	0,631	1,07	0,504
ENSG00000147274	<i>RBMX</i>	up-regulated	0,617	1,08	0,544
ENSG00000179051	<i>RCC2</i>	up-regulated	0,729	1,09	0,600
ENSG00000240857	<i>RDH14</i>	up-regulated	0,727	1,09	0,583
ENSG00000148300	<i>REXO4</i>	up-regulated	0,504	1,08	0,532
ENSG00000174173	<i>RG9MTD1</i>	up-regulated	0,487	1,06	0,547
ENSG00000199916	<i>RNase_MRP</i>	up-regulated	1,643	1,16	0,684
ENSG00000124226	<i>RNF114</i>	up-regulated	0,498	1,08	0,555
ENSG00000218428	<i>RP1-136O14.1</i>	up-regulated	0,287	1,13	0,543
ENSG00000218510	<i>RP1-224A6.2</i>	up-regulated	0,714	1,12	0,541
ENSG00000243007	<i>RP11-106M3.1</i>	up-regulated	0,684	1,07	0,574
ENSG00000215840	<i>RP11-122G18.3</i>	up-regulated	0,696	1,07	0,612
ENSG00000237214	<i>RP11-12M9.1</i>	up-regulated	1,215	1,18	0,644

ENSG00000244705	<i>RP11-133K1.1</i>	up-regulated	0,735	1,13	0,633
ENSG00000212695	<i>RP11-134K1.2</i>	up-regulated	0,533	1,07	0,553
ENSG00000240342	<i>RP11-139O18.1</i>	up-regulated	1,185	1,13	0,669
ENSG00000197582	<i>RP11-142G7.1</i>	up-regulated	1,715	1,21	0,656
ENSG00000227613	<i>RP11-149J18.1</i>	up-regulated	0,341	1,11	0,502
ENSG00000234080	<i>RP11-183G22.3</i>	up-regulated	0,837	1,14	0,523
ENSG00000216860	<i>RP11-185O17.1</i>	up-regulated	0,591	1,05	0,544
ENSG00000241411	<i>RP11-192C21.1</i>	up-regulated	0,928	1,13	0,541
ENSG00000235919	<i>RP11-29H23.3</i>	up-regulated	0,529	1,10	0,539
ENSG00000228175	<i>RP11-302M6.1</i>	up-regulated	0,528	1,14	0,564
ENSG00000232230	<i>RP11-316M21.4</i>	up-regulated	0,822	1,16	0,519
ENSG00000186676	<i>RP11-319G5.1</i>	up-regulated	0,652	1,10	0,598
ENSG00000240804	<i>RP11-321C3.1</i>	up-regulated	0,529	1,18	0,587
ENSG00000235677	<i>RP11-34E5.1</i>	up-regulated	0,916	1,22	0,535
ENSG00000232388	<i>RP11-379J5.2</i>	up-regulated	0,914	1,10	0,585
ENSG00000235695	<i>RP11-395P16.1</i>	up-regulated	1,404	1,27	0,696
ENSG00000244381	<i>RP11-3K16.2</i>	up-regulated	0,814	1,09	0,659
ENSG00000240776	<i>RP11-435F17.1</i>	up-regulated	0,610	1,06	0,510
ENSG00000213778	<i>RP11-449I17.4</i>	up-regulated	0,449	1,06	0,547
ENSG00000197149	<i>RP11-452G18.1</i>	up-regulated	1,007	1,12	0,592
ENSG00000237730	<i>RP11-459A10.3</i>	up-regulated	0,650	1,07	0,537
ENSG00000238003	<i>RP11-465N4.2</i>	up-regulated	0,558	1,04	0,585
ENSG00000179157	<i>RP11-480N24.3</i>	up-regulated	0,900	1,13	0,612
ENSG00000232347	<i>RP11-488L18.2</i>	up-regulated	1,101	1,13	0,590
ENSG00000215086	<i>RP11-522H2.1</i>	up-regulated	0,731	1,14	0,640
ENSG00000238193	<i>RP11-555H23.1</i>	up-regulated	0,221	1,06	0,508
ENSG00000226945	<i>RP11-564A8.1</i>	up-regulated	0,549	1,06	0,543
ENSG00000240036	<i>RP11-587D21.1</i>	up-regulated	0,792	1,06	0,541
ENSG00000234315	<i>RP11-69J16.1</i>	up-regulated	0,987	1,10	0,516
ENSG00000241546	<i>RP11-767L7.1</i>	up-regulated	0,634	1,08	0,541
ENSG00000229067	<i>RP11-91I11.1</i>	up-regulated	0,818	1,23	0,511
ENSG00000219470	<i>RP3-337H4.1</i>	up-regulated	0,763	1,09	0,543
ENSG00000216412	<i>RP3-405J24.1</i>	up-regulated	0,940	1,10	0,559
ENSG00000233558	<i>RP3-486I3.1</i>	up-regulated	1,156	1,11	0,593
ENSG00000230913	<i>RP4-696P19.1</i>	up-regulated	0,621	1,08	0,550
ENSG00000224870	<i>RP4-758J18.4</i>	up-regulated	0,565	1,10	0,603
ENSG00000224531	<i>RP4-761I2.1</i>	up-regulated	0,593	1,09	0,722
ENSG00000213296	<i>RP5-1106E3.2</i>	up-regulated	0,653	1,09	0,534
ENSG00000230734	<i>RPL10P3</i>	up-regulated	0,949	1,11	0,646
ENSG00000219932	<i>RPL12P8</i>	up-regulated	0,677	1,06	0,562
ENSG00000236552	<i>RPL13AP5</i>	up-regulated	0,329	1,02	0,501
ENSG00000174748	<i>RPL15</i>	up-regulated	0,852	1,08	0,604
ENSG00000156482	<i>RPL30</i>	up-regulated	0,536	1,05	0,552
ENSG00000227935	<i>RPL3P2</i>	up-regulated	0,676	1,06	0,632
ENSG00000163682	<i>RPL9</i>	up-regulated	1,227	1,11	0,675
ENSG00000089157	<i>RPLP0</i>	up-regulated	0,913	1,08	0,632
ENSG00000177600	<i>RPLP2</i>	up-regulated	0,557	1,09	0,528
ENSG00000231500	<i>RPS18</i>	up-regulated	0,652	1,09	0,589
ENSG00000233927	<i>RPS28</i>	up-regulated	0,909	1,07	0,688
ENSG00000235508	<i>RPS2L1</i>	up-regulated	0,494	1,05	0,484
ENSG00000225246	<i>RPS2P1</i>	up-regulated	0,585	1,12	0,537
ENSG00000196183	<i>RPS2P4</i>	up-regulated	0,673	1,11	0,498
ENSG00000085721	<i>RRN3</i>	up-regulated	0,920	1,10	0,527

ENSG00000171490	<i>RSL1D1</i>	up-regulated	0,482	1,04		0,525
ENSG00000100445	<i>SDR39U1</i>	up-regulated	0,623	1,06		0,504
ENSG00000120742	<i>SERP1</i>	up-regulated	0,507	1,04		0,573
ENSG00000124193	<i>SFRS6</i>	up-regulated	0,589	1,06		0,545
ENSG00000100075	<i>SLC25A1</i>	up-regulated	0,658	1,11		0,565
ENSG00000164933	<i>SLC25A32</i>	up-regulated	0,694	1,07		0,530
ENSG00000164209	<i>SLC25A46</i>	up-regulated	0,531	1,05		0,551
ENSG00000157593	<i>SLC35B2</i>	up-regulated	0,763	1,13		0,562
ENSG00000168003	<i>SLC3A2</i>	up-regulated	1,166	1,16		0,516
ENSG00000196787	<i>SMCHD1</i>	up-regulated	0,896	1,13		0,511
ENSG00000197989	<i>SNHG12</i>	up-regulated	0,886	1,20		0,689
ENSG00000147164	<i>SNX12</i>	up-regulated	0,422	1,08		0,543
ENSG00000091640	<i>SPAG7</i>	up-regulated	0,456	1,06		0,541
ENSG00000114902	<i>SPCS1</i>	up-regulated	0,703	1,09		0,521
ENSG00000121067	<i>SPOP</i>	up-regulated	0,903	1,16		0,617
ENSG00000161011	<i>SQSTM1</i>	up-regulated	1,061	1,16		0,516
ENSG00000153037	<i>SRP19</i>	up-regulated	0,690	1,08		0,594
ENSG00000144589	<i>STK11IP</i>	up-regulated	0,510	1,08		0,501
ENSG00000204344	<i>STK19</i>	up-regulated	0,693	1,13		0,619
ENSG00000178913	<i>TAF7</i>	up-regulated	0,789	1,12		0,663
ENSG00000158710	<i>TAGLN2</i>	up-regulated	0,906	1,13		0,566
ENSG00000147687	<i>TATDN1</i>	up-regulated	0,665	1,09		0,596
ENSG00000118707	<i>TGIF2</i>	up-regulated	1,086	1,23	1,11	0,687
ENSG00000099800	<i>TIMM13</i>	up-regulated	0,664	1,12		0,503
ENSG00000166557	<i>TMED3</i>	up-regulated	1,091	1,16		0,526
ENSG00000100580	<i>TMED8</i>	up-regulated	0,829	1,12		0,526
ENSG00000184840	<i>TMED9</i>	up-regulated	0,753	1,10		0,505
ENSG00000166575	<i>TMEM135</i>	up-regulated	0,957	1,13		0,513
ENSG00000166822	<i>TMEM170A</i>	up-regulated	0,723	1,10		0,555
ENSG00000151353	<i>TMEM18</i>	up-regulated	0,564	1,09		0,635
ENSG00000109133	<i>TMEM33</i>	up-regulated	0,764	1,09		0,694
ENSG00000169964	<i>TMEM42</i>	up-regulated	0,711	1,09		0,606
ENSG00000145014	<i>TMEM44</i>	up-regulated	0,417	1,08		0,524
ENSG00000133872	<i>TMEM66</i>	up-regulated	0,634	1,07		0,625
ENSG00000128463	<i>TMEM85</i>	up-regulated	0,711	1,09		0,611
ENSG00000120889	<i>TNFRSF10B</i>	up-regulated	1,471	1,19		0,645
ENSG00000186283	<i>TOR3A</i>	up-regulated	0,544	1,12		0,504
ENSG00000133112	<i>TPT1</i>	up-regulated	0,344	1,04		0,504
ENSG00000104907	<i>TRMT1</i>	up-regulated	0,804	1,14		0,639
ENSG00000198860	<i>TSEN15</i>	up-regulated	0,557	1,07		0,511
ENSG00000149016	<i>TUT1</i>	up-regulated	0,385	1,05		0,691
ENSG00000162623	<i>TYW3</i>	up-regulated	0,665	1,04		0,516
ENSG00000140367	<i>UBE2Q2</i>	up-regulated	0,711	1,06		0,614
ENSG00000168883	<i>USP39</i>	up-regulated	0,466	1,07		0,558
ENSG00000204394	<i>VAR5</i>	up-regulated	0,358	1,06		0,523
ENSG00000116874	<i>WARS2</i>	up-regulated	0,652	1,12		0,604
ENSG00000227232	<i>WASH5P</i>	up-regulated	0,707	1,13		0,502
ENSG00000065268	<i>WDR18</i>	up-regulated	0,819	1,11		0,606
ENSG00000133316	<i>WDR74</i>	up-regulated	0,758	1,12		0,529
ENSG00000164091	<i>WDR82</i>	up-regulated	0,600	1,08		0,564
ENSG00000196151	<i>WDSUB1</i>	up-regulated	0,495	1,09		0,605
ENSG00000139131	<i>YARS2</i>	up-regulated	0,694	1,12		0,622
ENSG00000198492	<i>YTHDF2</i>	up-regulated	0,580	1,09		0,669

ENSG00000134308	YWHAQ	up-regulated	0,441	1,05	0,543
ENSG00000065548	ZC3H15	up-regulated	0,605	1,07	0,538
ENSG00000174165	ZDHHC24	up-regulated	0,700	1,12	0,541
ENSG00000136247	ZDHHC4	up-regulated	0,503	1,08	0,534
ENSG00000152454	ZNF256	up-regulated	0,971	1,21	0,638
ENSG00000006194	ZNF263	up-regulated	0,515	1,07	0,625
ENSG00000169740	ZNF32	up-regulated	0,750	1,11	0,519
ENSG00000235109	ZNF323	up-regulated	0,231	1,10	0,506
ENSG00000109445	ZNF330	up-regulated	0,637	1,06	0,536
ENSG00000130818	ZNF426	up-regulated	1,070	1,22	0,665
ENSG00000167555	ZNF528	up-regulated	0,643	1,16	0,537
ENSG00000120963	ZNF706	up-regulated	0,800	1,12	0,536
ENSG00000065029	ZNF76	up-regulated	0,547	1,09	0,519
ENSG00000227127	AC000086.1	down-regulated	-1,634	-1,30	-0,541
ENSG00000227065	AC005392.2	down-regulated	-3,774	-1,69	-0,628
ENSG00000247871	AC005531.1	down-regulated	-1,107	-1,28	-0,551
ENSG00000243158	AC005774.1	down-regulated	-0,603	-1,30	-0,541
ENSG00000245167	AC006111.3	down-regulated	-1,094	-1,21	-0,506
ENSG00000247342	AC007136.1	down-regulated	-1,207	-1,21	-0,531
ENSG00000213090	AC007256.1	down-regulated	-0,589	-1,18	-0,514
ENSG00000247876	AC015813.6	down-regulated	-0,620	-1,11	-0,526
ENSG00000228363	AC015971.2	down-regulated	-0,634	-1,21	-0,526
ENSG00000078687	AC021593.1	down-regulated	-0,511	-1,09	-0,501
ENSG00000246590	AC021914.3	down-regulated	-1,573	-1,43	-0,544
ENSG00000245631	AC080012.1	down-regulated	-1,268	-1,25	-0,504
ENSG00000246527	AC087362.2	down-regulated	-1,142	-1,39	-0,593
ENSG00000230803	AC097532.4	down-regulated	-0,502	-1,14	-0,581
ENSG00000224177	AC099344.4	down-regulated	-0,631	-1,09	-0,504
ENSG00000245878	AC115097.1	down-regulated	-1,324	-1,29	-0,515
ENSG00000247397	AC130352.2	down-regulated	-0,391	-1,06	-0,531
ENSG00000214613	AC136428.1	down-regulated	-0,699	-1,29	-0,537
ENSG00000213830	AC145132.1	down-regulated	-0,584	-1,11	-0,632
ENSG00000211791	AE000659.7	down-regulated	-1,309	-1,49	-0,570
ENSG00000211880	AE000662.41	down-regulated	-1,086	-1,31	-0,506
ENSG00000155966	AFF2	down-regulated	-1,980	-1,23	-0,533
ENSG00000247229	AL031123.2	down-regulated	-1,310	-1,23	-0,754
ENSG00000246196	AL031282.1	down-regulated	-1,497	-1,38	-0,501
ENSG00000246824	AL031673.4	down-regulated	-1,456	-1,42	-0,513
ENSG00000247323	AL035683.1	down-regulated	-2,991	-1,67	-0,652
ENSG00000244950	AL049629.1	down-regulated	-1,744	-1,43	-0,525
ENSG00000246804	AL096774.1	down-regulated	-1,098	-1,21	-0,546
ENSG00000221482	AL109840.1	down-regulated	-1,309	-1,27	-0,534
ENSG00000245871	AL138717.2	down-regulated	-1,091	-1,29	-0,513
ENSG00000247219	AL354989.3	down-regulated	-0,832	-1,21	-0,519
ENSG00000247183	AL356273.4	down-regulated	-1,823	-1,34	-0,513
ENSG00000239738	AL591394.1	down-regulated	-1,227	-1,36	-0,513
ENSG00000246099	AL596114.1	down-regulated	-0,439	-1,10	-0,535
ENSG00000236029	AL953854.1	down-regulated	-0,715	-1,29	-0,504
ENSG00000160746	ANO10	down-regulated	-1,172	-1,24	-0,554
ENSG00000165899	AP000872.1	down-regulated	-0,876	-1,29	-0,595
ENSG00000136044	APPL2	down-regulated	-0,928	-1,13	-0,554
ENSG00000213214	ARHGEF5L	down-regulated	-1,132	-1,30	-0,508
ENSG00000068650	ATP11A	down-regulated	-0,915	-1,26	-0,577

ENSG00000129244	<i>ATP1B2</i>	down-regulated	-1,763	-1,22	-0,644
ENSG00000033627	<i>ATP6V0A1</i>	down-regulated	-0,988	-1,17	-0,579
ENSG00000165240	<i>ATP7A</i>	down-regulated	-1,092	-1,23	-0,531
ENSG00000188761	<i>BCL2L15</i>	down-regulated	-2,272	-1,35	-0,572
ENSG00000127325	<i>BEST3</i>	down-regulated	-0,291	-1,09	-0,662
ENSG00000173064	<i>C12orf51</i>	down-regulated	-0,802	-1,14	-0,556
ENSG00000203721	<i>C1orf98</i>	down-regulated	-0,297	-1,14	-0,596
ENSG00000164879	<i>CA3</i>	down-regulated	-1,488	-1,16	-0,633
ENSG00000152495	<i>CAMK4</i>	down-regulated	-1,376	-1,27	-0,484
ENSG00000204936	<i>CD177</i>	down-regulated	-2,145	-1,30	-0,588
ENSG00000163606	<i>CD200R1</i>	down-regulated	-1,853	-1,46	-0,531
ENSG00000102245	<i>CD40LG</i>	down-regulated	-0,762	-1,27	-0,547
ENSG00000244703	<i>CD46P</i>	down-regulated	-1,021	-1,24	-0,623
ENSG00000176749	<i>CDK5R1</i>	down-regulated	-0,825	-1,10	-0,511
ENSG00000233681	<i>CEACAM22P</i>	down-regulated	-0,487	-1,13	-0,571
ENSG00000148842	<i>CNNM2</i>	down-regulated	-0,596	-1,10	-0,542
ENSG00000206249	<i>CTD-2308N23.1</i>	down-regulated	-0,905	-1,35	-0,528
ENSG00000225863	<i>CTD-2532D12.1</i>	down-regulated	-0,612	-1,09	-0,526
ENSG00000165521	<i>EML5</i>	down-regulated	-0,339	-1,09	-0,502
ENSG00000129595	<i>EPB41L4A</i>	down-regulated	-0,561	-1,16	-0,548
ENSG00000196814	<i>FAM125B</i>	down-regulated	-0,882	-1,14	-0,505
ENSG00000152380	<i>FAM151B</i>	down-regulated	-1,546	-1,21	-0,600
ENSG00000140092	<i>FBLN5</i>	down-regulated	-1,565	-1,16	-0,612
ENSG00000100351	<i>GRAP2</i>	down-regulated	-0,837	-1,11	-0,519
ENSG00000188175	<i>HEPACAM2</i>	down-regulated	-0,870	-1,21	-0,511
ENSG00000134709	<i>HOOK1</i>	down-regulated	-0,665	-1,18	-0,535
ENSG00000236613	<i>HPR</i>	down-regulated	-2,041	-1,30	-0,594
ENSG00000207800	<i>hsa-mir-504</i>	down-regulated	-0,642	-1,14	-0,508
ENSG00000134256	<i>IGSF2</i>	down-regulated	-1,669	-1,34	-0,505
ENSG00000166333	<i>ILK</i>	down-regulated	-0,691	-1,09	-0,553
ENSG00000143164	<i>IQWD1</i>	down-regulated	-1,033	-1,17	-0,624
ENSG00000121210	<i>KIAA0922</i>	down-regulated	-0,760	-1,10	-0,569
ENSG00000125498	<i>KIR2DL1</i>	down-regulated	-1,301	-1,24	-0,495
ENSG00000198728	<i>LDB1</i>	down-regulated	-0,622	-1,06	-0,571
ENSG00000108231	<i>LGI1</i>	down-regulated	-0,257	-1,07	-0,628
ENSG00000075413	<i>MARK3</i>	down-regulated	-0,565	-1,08	-0,562
ENSG00000103313	<i>MEFV</i>	down-regulated	-1,134	-1,11	-0,528
ENSG00000198948	<i>MFAP3L</i>	down-regulated	-0,445	-1,07	-0,542
ENSG00000147324	<i>MFHAS1</i>	down-regulated	-1,022	-1,16	-0,568
ENSG00000101928	<i>MOSPD1</i>	down-regulated	-0,847	-1,15	-0,603
ENSG00000123119	<i>NECAB1</i>	down-regulated	-0,726	-1,12	-0,549
ENSG00000245481	<i>NUDT4P1</i>	down-regulated	-1,166	-1,19	-0,551
ENSG00000169202	<i>OR10G2</i>	down-regulated	-0,487	-1,08	-0,537
ENSG00000203757	<i>OR6K3</i>	down-regulated	-1,080	-1,23	-0,627
ENSG00000067992	<i>PDK3</i>	down-regulated	-0,983	-1,20	-0,541
ENSG00000135845	<i>PIGC</i>	down-regulated	-0,426	-1,13	-0,566
ENSG00000150867	<i>PIP5K2A</i>	down-regulated	-1,024	-1,09	-0,522
ENSG00000057294	<i>PKP2</i>	down-regulated	-1,344	-1,18	-0,528
ENSG00000068971	<i>PPP2R5B</i>	down-regulated	-0,978	-1,12	-0,632
ENSG00000231924	<i>PSG1</i>	down-regulated	-0,280	-1,12	-0,509
ENSG00000170848	<i>PSG6</i>	down-regulated	-0,464	-1,09	-0,514
ENSG00000124467	<i>PSG8</i>	down-regulated	-0,652	-1,13	-0,587
ENSG00000176641	<i>RNF152</i>	down-regulated	-0,830	-1,18	-0,521

ENSG00000218991	<i>RP1-55C23.3</i>	down-regulated	-0,999	-1,31	-0,595
ENSG00000224050	<i>RP1-90G24.2</i>	down-regulated	-0,821	-1,39	-0,550
ENSG00000236051	<i>RP11-226E21.2</i>	down-regulated	-0,478	-1,16	-0,528
ENSG00000229044	<i>RP11-266K22.1</i>	down-regulated	-0,718	-1,21	-0,597
ENSG00000213205	<i>RP11-310F12.1</i>	down-regulated	-0,852	-1,16	-0,502
ENSG00000235922	<i>RP11-323C15.2</i>	down-regulated	-0,360	-1,10	-0,510
ENSG00000240527	<i>RP11-429G19.2</i>	down-regulated	-1,543	-1,54	-0,495
ENSG00000242848	<i>RP11-445N18.2</i>	down-regulated	-0,572	-1,16	-0,500
ENSG00000235285	<i>RP11-478K15.3</i>	down-regulated	-0,435	-1,12	-0,627
ENSG00000224259	<i>RP11-48O20.1</i>	down-regulated	-0,604	-1,08	-0,594
ENSG00000225175	<i>RP11-795A2.2</i>	down-regulated	-0,532	-1,09	-0,583
ENSG00000188455	<i>RP3-393P12.1</i>	down-regulated	-0,686	-1,13	-0,572
ENSG00000008952	<i>SEC62</i>	down-regulated	-0,739	-1,13	-0,564
ENSG00000165646	<i>SLC18A2</i>	down-regulated	-1,140	-1,16	-0,513
ENSG00000197506	<i>SLC28A3</i>	down-regulated	-1,742	-1,33	-0,550
ENSG00000063127	<i>SLC6A16</i>	down-regulated	-0,566	-1,10	-0,502
ENSG00000157734	<i>SNX22</i>	down-regulated	-0,722	-1,07	-0,516
ENSG00000095637	<i>SORBS1</i>	down-regulated	-0,523	-1,07	-0,536
ENSG00000229453	<i>SPINK8</i>	down-regulated	-0,618	-1,19	-0,503
ENSG00000223423	<i>TARM1</i>	down-regulated	-2,209	-1,28	-0,536
ENSG00000187605	<i>TET3</i>	down-regulated	-0,625	-1,09	-0,683
ENSG00000171914	<i>TLN2</i>	down-regulated	-0,927	-1,16	-0,593
ENSG00000199348	<i>U6</i>	down-regulated	-0,777	-1,27	-0,505
ENSG00000170832	<i>USP32</i>	down-regulated	-0,697	-1,09	-0,531
ENSG00000132471	<i>WBP2</i>	down-regulated	-1,097	-1,11	-0,609
ENSG00000199204	<i>Y_RNA</i>	down-regulated	-1,141	-1,33	-0,507
ENSG00000168792	<i>ABHD15</i>	up-regulated	0,621	1,06	0,512
ENSG00000240816	<i>AC006547.3</i>	up-regulated	0,673	1,24	0,600
ENSG00000238133	<i>AC013461.1</i>	up-regulated	0,247	1,09	0,533
ENSG00000212978	<i>AC016747.1</i>	up-regulated	0,704	1,15	0,525
ENSG00000231160	<i>AC021860.1</i>	up-regulated	0,513	1,13	0,516
ENSG00000247828	<i>AC091826.2</i>	up-regulated	0,630	1,06	0,574
ENSG00000226472	<i>AC099543.1</i>	up-regulated	0,884	1,18	0,635
ENSG00000213881	<i>AC105015.1</i>	up-regulated	0,663	1,11	0,551
ENSG00000132744	<i>ACY3</i>	up-regulated	1,001	1,27	0,602
ENSG00000151694	<i>ADAM17</i>	up-regulated	0,829	1,09	0,522
ENSG00000136950	<i>ARPC5L</i>	up-regulated	0,657	1,12	0,511
ENSG00000115966	<i>ATF2</i>	up-regulated	0,555	1,06	0,532
ENSG00000175866	<i>BAIAP2</i>	up-regulated	0,513	1,09	0,591
ENSG00000151746	<i>BICD1</i>	up-regulated	0,496	1,04	0,542
ENSG00000100916	<i>BRMS1L</i>	up-regulated	0,615	1,11	0,512
ENSG00000119650	<i>C14orf179</i>	up-regulated	0,495	1,09	0,520
ENSG00000162852	<i>C1orf71</i>	up-regulated	0,934	1,06	0,678
ENSG00000183166	<i>CALN1</i>	up-regulated	0,438	1,10	0,554
ENSG00000135469	<i>COQ10A</i>	up-regulated	0,527	1,05	0,504
ENSG00000008283	<i>CYB561</i>	up-regulated	0,422	1,13	0,536
ENSG00000105443	<i>CYTH2</i>	up-regulated	0,688	1,10	0,648
ENSG00000113758	<i>DBN1</i>	up-regulated	0,521	1,08	0,614
ENSG00000179958	<i>DCTPP1</i>	up-regulated	1,008	1,14	0,613
ENSG00000155792	<i>DEPDC6</i>	up-regulated	1,505	1,18	0,518
ENSG00000160049	<i>DFFA</i>	up-regulated	0,798	1,08	0,594
ENSG00000113657	<i>DPYSL3</i>	up-regulated	0,867	1,16	0,527
ENSG00000047575	<i>DTNBP1</i>	up-regulated	0,553	1,06	0,581

ENSG00000182676	<i>DYSFIP1</i>	up-regulated	0,868	1,20	0,542
ENSG00000151348	<i>EXT2</i>	up-regulated	0,653	1,09	0,581
ENSG00000164687	<i>FABP5</i>	up-regulated	0,786	1,09	0,517
ENSG00000022267	<i>FHL1</i>	up-regulated	1,016	1,22	0,669
ENSG00000115486	<i>GGCX</i>	up-regulated	0,554	1,11	0,514
ENSG00000127955	<i>GNAI1</i>	up-regulated	1,689	1,37	0,500
ENSG00000069966	<i>GNB5</i>	up-regulated	0,747	1,08	0,587
ENSG00000100522	<i>GNPNAT1</i>	up-regulated	0,736	1,08	0,547
ENSG00000164116	<i>GUCY1A3</i>	up-regulated	1,545	1,22	0,577
ENSG00000163666	<i>HESX1</i>	up-regulated	0,466	1,18	0,606
ENSG00000054392	<i>HHAT</i>	up-regulated	0,544	1,06	0,552
ENSG00000153807	<i>HOXA10</i>	up-regulated	0,549	1,09	1,37 0,527
ENSG00000108622	<i>ICAM2</i>	up-regulated	1,122	1,13	0,617
ENSG00000125968	<i>ID1</i>	up-regulated	1,256	1,26	0,557
ENSG00000169991	<i>IFFO2</i>	up-regulated	0,891	1,23	0,602
ENSG00000150995	<i>ITPR1</i>	up-regulated	1,193	1,08	0,509
ENSG00000205730	<i>ITPRIPL2</i>	up-regulated	0,859	1,10	0,569
ENSG00000171135	<i>JAGN1</i>	up-regulated	0,938	1,13	0,613
ENSG00000183340	<i>JRKL</i>	up-regulated	0,810	1,10	0,525
ENSG00000170903	<i>KIAA1826</i>	up-regulated	0,859	1,06	0,533
ENSG00000173214	<i>KIAA1919</i>	up-regulated	0,752	1,09	0,506
ENSG00000003096	<i>KLHL13</i>	up-regulated	0,893	1,25	0,507
ENSG00000172578	<i>KLHL6</i>	up-regulated	0,741	1,12	0,545
ENSG00000188636	<i>LDOC1L</i>	up-regulated	0,550	1,13	0,534
ENSG00000165072	<i>MAMDC2</i>	up-regulated	2,294	1,49	0,526
ENSG00000215417	<i>MIRHG1</i>	up-regulated	1,304	1,17	0,552
ENSG00000178053	<i>MLF1</i>	up-regulated	0,957	1,51	0,556
ENSG00000119684	<i>MLH3</i>	up-regulated	0,465	1,07	0,559
ENSG00000125144	<i>MT1G</i>	up-regulated	1,887	1,33	0,713
ENSG00000213761	<i>MT1P1</i>	up-regulated	1,122	1,19	0,703
ENSG00000187193	<i>MT1X</i>	up-regulated	1,233	1,16	0,589
ENSG00000128833	<i>MYO5C</i>	up-regulated	0,836	1,16	0,583
ENSG00000114670	<i>NEK11</i>	up-regulated	0,296	1,06	0,587
ENSG00000182768	<i>NGRN</i>	up-regulated	0,586	1,06	0,573
ENSG00000170113	<i>NIPA1</i>	up-regulated	1,217	1,08	0,577
ENSG00000073536	<i>NLE1</i>	up-regulated	0,571	1,12	0,598
ENSG00000103024	<i>NME3</i>	up-regulated	0,757	1,10	0,617
ENSG00000163346	<i>PBXIP1</i>	up-regulated	0,514	1,09	0,540
ENSG00000171408	<i>PDE7B</i>	up-regulated	0,714	1,14	0,515
ENSG00000067057	<i>PFKP</i>	up-regulated	1,342	1,19	0,663
ENSG00000052126	<i>PLEKHA5</i>	up-regulated	0,606	1,03	0,500
ENSG00000067113	<i>PPAP2A</i>	up-regulated	0,543	1,14	0,542
ENSG00000143801	<i>PSEN2</i>	up-regulated	0,608	1,08	0,540
ENSG00000184489	<i>PTP4A3</i>	up-regulated	0,609	1,14	0,566
ENSG00000049449	<i>RCN1</i>	up-regulated	0,591	1,05	0,526
ENSG00000171865	<i>RNASEH1</i>	up-regulated	0,615	1,06	0,654
ENSG00000238274	<i>RP1-67M12.1</i>	up-regulated	0,832	1,16	0,510
ENSG00000232727	<i>RP11-321E8.2</i>	up-regulated	0,310	1,06	0,502
ENSG00000237188	<i>RP11-337C18.2</i>	up-regulated	0,955	1,18	0,607
ENSG00000228651	<i>RP11-556E13.1</i>	up-regulated	1,339	1,42	0,630
ENSG00000150459	<i>SAP18</i>	up-regulated	0,470	1,06	0,490
ENSG00000116521	<i>SCAMP3</i>	up-regulated	0,352	1,04	0,546
ENSG00000145284	<i>SCD5</i>	up-regulated	0,644	1,14	1,06 0,629

ENSG0000058262	SEC61A1	up-regulated	0,365	1,04		0,516
ENSG00000170364	SETMAR	up-regulated	0,708	1,09		0,627
ENSG00000102078	SLC25A14	up-regulated	0,488	1,08		0,542
ENSG00000158715	SLC45A3	up-regulated	1,099	1,22		0,764
ENSG00000065923	SLC9A7	up-regulated	1,353	1,20		0,580
ENSG00000128040	SPINK2	up-regulated	1,546	1,44		0,531
ENSG00000145687	SSBP2	up-regulated	1,334	1,18		0,513
ENSG00000110080	ST3GAL4	up-regulated	0,744	1,13	1,10	0,544
ENSG00000167293	TBC1D16	up-regulated	0,328	1,08		0,520
ENSG00000066056	TIE1	up-regulated	0,551	1,14		0,598
ENSG00000163659	TIPARP	up-regulated	0,674	1,16		0,490
ENSG00000170417	TMEM182	up-regulated	0,337	1,09		0,558
ENSG00000065600	TMEM206	up-regulated	0,946	1,06		0,572
ENSG00000187824	TMEM220	up-regulated	0,802	1,13		0,549
ENSG00000125657	TNFSF9	up-regulated	0,753	1,09		0,608
ENSG00000076604	TRAF4	up-regulated	0,851	1,10		0,551
ENSG00000038382	TRIO	up-regulated	1,074	1,13		0,547
ENSG00000187862	TTC24	up-regulated	0,502	1,10		0,501
ENSG00000162222	TTC9C	up-regulated	0,620	1,10		0,504
ENSG00000109189	USP46	up-regulated	0,746	1,10		0,531
ENSG00000145390	USP53	up-regulated	0,999	1,18		0,520
ENSG00000174776	WDR49	up-regulated	2,193	1,53		0,608
ENSG00000160062	ZBTB8A	up-regulated	1,054	1,27		0,544
ENSG00000172667	ZMAT3	up-regulated	1,006	1,16		0,617
ENSG00000005803	ZNF195	up-regulated	0,613	1,06		0,505
ENSG00000171970	ZNF57	up-regulated	0,743	1,18		0,546
ENSG00000144792	ZNF660	up-regulated	1,068	1,06		0,516
ENSG00000180884	ZNF792	up-regulated	1,076	1,18		0,571
ENSG00000179869	ABCA13	down-regulated	-2,911	-1,46	-1,91	-0,677
ENSG00000246166	AC003102.2	down-regulated	-0,781	-1,10		-0,509
ENSG00000246584	AC007688.3	down-regulated	-0,815	-1,10		-0,508
ENSG00000119862	AC008074.2	down-regulated	-3,015	-1,48	-1,37	-0,685
ENSG00000231306	AC051642.2	down-regulated	-2,130	-1,33		-0,651
ENSG00000230724	AC069287.3	down-regulated	-1,201	-1,15		-0,546
ENSG00000247821	AC093376.3	down-regulated	-0,806	-1,12		-0,594
ENSG00000245418	AC096772.2	down-regulated	-0,728	-1,16		-0,556
ENSG00000242944	AD000090.2	down-regulated	-0,618	-1,04		-0,539
ENSG00000186529	AD000685.1	down-regulated	-2,930	-1,15		-0,586
ENSG00000012779	ALOX5	down-regulated	-1,908	-1,16	-1,25	-0,622
ENSG00000133805	AMPD3	down-regulated	-1,563	-1,16		-0,554
ENSG00000029534	ANK1	down-regulated	-2,271	-1,35		-0,576
ENSG00000179750	APOBEC3B	down-regulated	-1,272	-1,10		-0,535
ENSG00000111348	ARHGDIB	down-regulated	-0,856	-1,09		-0,559
ENSG00000153317	ASAP1	down-regulated	-1,710	-1,21	-1,13	-0,739
ENSG00000158470	B4GALT5	down-regulated	-1,520	-1,13		-0,642
ENSG00000214212	C19orf38	down-regulated	-1,381	-1,16		-0,514
ENSG00000183019	C19orf59	down-regulated	-1,953	-1,17	-1,22	-0,520
ENSG00000133742	CA1	down-regulated	-2,850	-1,41		-0,580
ENSG00000104267	CA2	down-regulated	-1,061	-1,12		-0,507
ENSG00000153113	CAST	down-regulated	-1,085	-1,19		-0,676
ENSG00000204790	CBWD6	down-regulated	-0,819	-1,24		-0,506
ENSG00000085063	CD59	down-regulated	-1,250	-1,06		-0,558
ENSG00000079385	CEACAM1	down-regulated	-2,926	-1,32	-1,42	-0,655

ENSG00000238092	CEACAMP6	down-regulated	-3,418	-1,38		-0,635
ENSG00000236932	CEACAMP8	down-regulated	-2,232	-1,22		-0,700
ENSG00000115163	CENPA	down-regulated	-0,498	-1,09		-0,509
ENSG00000144677	CTDSPL	down-regulated	-1,053	-1,12		-0,541
ENSG00000165168	CYBB	down-regulated	-1,303	-1,08		-0,515
ENSG00000055163	CYFIP2	down-regulated	-1,832	-1,15	-1,19	-0,550
ENSG00000140403	DNAJA4	down-regulated	-1,288	-1,29		-0,505
ENSG00000135636	DYSF	down-regulated	-1,551	-1,20	-1,17	-0,595
ENSG00000117298	ECE1	down-regulated	-0,958	-1,07		-0,501
ENSG00000112146	FBXO9	down-regulated	-1,131	-1,13		-0,601
ENSG00000066926	FECH	down-regulated	-1,753	-1,34		-0,508
ENSG00000137460	FHDC1	down-regulated	-1,785	-1,21		-0,518
ENSG00000111206	FOXM1	down-regulated	-0,991	-1,09		-0,529
ENSG00000164574	GALNT10	down-regulated	-0,606	-1,08		-0,567
ENSG00000186469	GNG2	down-regulated	-1,519	-1,14		-0,555
ENSG00000170180	GYP A	down-regulated	-3,262	-1,84		-0,602
ENSG00000206177	HBM	down-regulated	-1,951	-1,21		-0,546
ENSG00000136929	HEMGN	down-regulated	-3,029	-1,96		-0,616
ENSG00000197081	IGF2R	down-regulated	-1,306	-1,15	-1,27	-0,574
ENSG00000115594	IL1R1	down-regulated	-1,358	-1,12		-0,509
ENSG00000006459	JHDM1D	down-regulated	-1,448	-1,34		-0,596
ENSG00000239435	KCNMB3L	down-regulated	-0,982	-1,06		-0,528
ENSG00000197993	KEL	down-regulated	-1,703	-1,27		-0,595
ENSG00000005238	KIAA1539	down-regulated	-1,085	-1,14		-0,601
ENSG00000144320	KIAA1715	down-regulated	-1,215	-1,18	-1,12	-0,527
ENSG00000137177	KIF13A	down-regulated	-1,016	-1,08	-1,12	-0,554
ENSG00000131981	LGALS3	down-regulated	-0,996	-1,19		-0,516
ENSG00000131042	LILRB2	down-regulated	-1,453	-1,17	-1,20	-0,543
ENSG00000197324	LRP10	down-regulated	-0,937	-1,07	-1,09	-0,525
ENSG00000143797	MBOAT2	down-regulated	-1,882	-1,27		-0,604
ENSG00000106780	MEGF9	down-regulated	-1,750	-1,13	-1,24	-0,559
ENSG00000141503	MINK1	down-regulated	-0,601	-1,08		-0,625
ENSG00000148773	MKI67	down-regulated	-1,346	-1,10		-0,531
ENSG00000163563	MNDA	down-regulated	-2,089	-1,24	-1,16	-0,594
ENSG00000133026	MYH10	down-regulated	-1,416	-1,21		-0,550
ENSG00000162599	NFIA	down-regulated	-1,287	-1,19		-0,543
ENSG00000173598	NUDT4	down-regulated	-0,745	-1,04		-0,529
ENSG00000119900	OGFRL1	down-regulated	-1,165	-1,16		-0,523
ENSG00000102837	OLFM4	down-regulated	-4,383	-1,22	-2,17	-0,658
ENSG00000173391	OLR1	down-regulated	-3,320	-1,48	-1,78	-0,538
ENSG00000181631	P2RY13	down-regulated	-2,253	-1,28		-0,569
ENSG00000159339	PADI4	down-regulated	-2,725	-1,23	-1,39	-0,619
ENSG00000120269	PCMT1	down-regulated	-0,632	-1,05	-1,06	-0,527
ENSG00000107242	PIP5K1B	down-regulated	-1,159	-1,23		-0,629
ENSG00000167819	PRDX2	down-regulated	-1,146	-1,20		-0,581
ENSG00000132819	RBM38	down-regulated	-0,964	-1,03		-0,513
ENSG00000112077	RHAG	down-regulated	-2,693	-1,67		-0,541
ENSG00000235373	RP11-206L10.9	down-regulated	-1,113	-1,21		-0,502
ENSG00000186350	RXRA	down-regulated	-0,559	-1,06		-0,538
ENSG00000139737	SLAIN1	down-regulated	-1,244	-1,10	-1,67	-0,516
ENSG00000141469	SLC14A1	down-regulated	-2,747	-1,53		-0,555
ENSG00000129353	SLC44A2	down-regulated	-1,596	-1,07	-1,16	-0,522
ENSG00000134243	SORT1	down-regulated	-2,214	-1,27		-0,641

ENSG00000163554	<i>SPTA1</i>	down-regulated	-2,675	-1,72		-0,503
ENSG00000070182	<i>SPTB</i>	down-regulated	-1,708	-1,32		-0,502
ENSG00000088992	<i>TESC</i>	down-regulated	-1,301	-1,16		-0,638
ENSG00000152078	<i>TMEM56</i>	down-regulated	-2,817	-1,60		-0,621
ENSG00000124120	<i>TTPAL</i>	down-regulated	-1,102	-1,11		-0,504
ENSG00000131462	<i>TUBG1</i>	down-regulated	-1,241	-1,19		-0,564
ENSG00000100749	<i>VRK1</i>	down-regulated	-0,945	-1,10		-0,515
ENSG00000163629	<i>WDFY3</i>	down-regulated	-1,594	-1,21	-1,24	-0,550
ENSG00000180667	<i>YOD1</i>	down-regulated	-0,690	-1,14		-0,503
ENSG00000235456	<i>Z97630.1</i>	down-regulated	-2,076	-1,23		-0,597
ENSG00000243660	<i>ZNF487</i>	down-regulated	-0,498	-1,14		-0,563
ENSG00000237819	<i>AC002454.2</i>	up-regulated	1,731	1,28		0,634
ENSG00000230311	<i>AC004074.1</i>	up-regulated	0,410	1,16		0,538
ENSG00000179523	<i>AC009996.1</i>	up-regulated	0,477	1,08		0,529
ENSG00000160229	<i>AC010329.1</i>	up-regulated	0,625	1,07		0,518
ENSG00000224331	<i>AC019181.4</i>	up-regulated	0,580	1,06		0,520
ENSG00000247207	<i>AC020928.5</i>	up-regulated	0,909	1,18		0,639
ENSG00000197763	<i>AC024558.5</i>	up-regulated	0,594	1,13		0,539
ENSG00000232431	<i>AC055876.2</i>	up-regulated	0,483	1,04		0,594
ENSG00000231531	<i>AC073342.1</i>	up-regulated	0,615	1,13		0,590
ENSG00000162840	<i>AC074378.2</i>	up-regulated	1,731	1,24		0,733
ENSG00000183199	<i>AC093768.1</i>	up-regulated	0,765	1,09		0,545
ENSG00000230148	<i>AC103702.2</i>	up-regulated	0,611	1,14		0,606
ENSG00000245213	<i>AC105285.1</i>	up-regulated	0,298	1,07		0,508
ENSG00000213443	<i>AC116903.1</i>	up-regulated	0,388	1,12		0,529
ENSG00000227273	<i>AC124781.1</i>	up-regulated	0,519	1,06		0,534
ENSG00000101442	<i>ACTR5</i>	up-regulated	0,764	1,10	1,09	0,567
ENSG00000115170	<i>ACVR1</i>	up-regulated	0,645	1,15		0,534
ENSG00000223451	<i>AL135752.1</i>	up-regulated	0,673	1,13		0,559
ENSG00000206560	<i>ANKRD28</i>	up-regulated	1,016	1,08		0,617
ENSG00000224427	<i>AP000281.2</i>	up-regulated	0,858	1,16		0,526
ENSG00000213333	<i>AP003175.1</i>	up-regulated	0,503	1,21		0,550
ENSG00000150776	<i>C11orf57</i>	up-regulated	0,515	1,09	1,11	0,524
ENSG00000151131	<i>C12orf45</i>	up-regulated	1,131	1,13	1,14	0,586
ENSG00000143303	<i>C1orf66</i>	up-regulated	0,536	1,09		0,537
ENSG00000149639	<i>C20orf117</i>	up-regulated	0,598	1,16		0,592
ENSG00000185614	<i>C3orf54</i>	up-regulated	0,878	1,14		0,665
ENSG00000155275	<i>C4orf23</i>	up-regulated	0,642	1,07		0,520
ENSG00000178397	<i>C7orf70</i>	up-regulated	0,503	1,11		0,504
ENSG00000164988	<i>C9orf93</i>	up-regulated	0,459	1,13		0,583
ENSG00000165806	<i>CASP7</i>	up-regulated	0,643	1,13		0,516
ENSG00000153879	<i>CEBPG</i>	up-regulated	1,223	1,17		0,622
ENSG00000088882	<i>CPXM1</i>	up-regulated	1,437	1,20	1,18	0,675
ENSG00000007545	<i>CRAMP1L</i>	up-regulated	0,438	1,09		0,512
ENSG00000143578	<i>CREB3L4</i>	up-regulated	0,400	1,06		0,516
ENSG00000213923	<i>CSNK1E</i>	up-regulated	0,495	1,09		0,501
ENSG00000124228	<i>DDX27</i>	up-regulated	0,422	1,05		0,551
ENSG00000169598	<i>DFFB</i>	up-regulated	0,424	1,07		0,627
ENSG00000136770	<i>DNAJC1</i>	up-regulated	1,022	1,14		0,645
ENSG00000170464	<i>DNAJC18</i>	up-regulated	0,564	1,10		0,682
ENSG00000123992	<i>DNPEP</i>	up-regulated	0,756	1,12	1,09	0,600
ENSG00000143507	<i>DUSP10</i>	up-regulated	2,043	1,34	1,28	0,695
ENSG00000161326	<i>DUSP14</i>	up-regulated	0,913	1,26		0,693

ENSG00000169016	<i>E2F6</i>	up-regulated	0,698	1,12	0,563	
ENSG00000123179	<i>EBPL</i>	up-regulated	0,598	1,06	0,506	
ENSG00000243364	<i>EFNA4</i>	up-regulated	0,616	1,16	0,618	
ENSG00000107362	<i>FAM108B1</i>	up-regulated	0,771	1,09	0,522	
ENSG00000139146	<i>FAM60A</i>	up-regulated	1,129	1,15	1,12	0,671
ENSG00000075618	<i>FSCN1</i>	up-regulated	0,789	1,16	1,16	0,614
ENSG00000111780	<i>GATC</i>	up-regulated	0,677	1,06	0,549	
ENSG00000198380	<i>GFPT1</i>	up-regulated	0,351	1,04	0,501	
ENSG00000100938	<i>GMPR2</i>	up-regulated	0,648	1,07	0,550	
ENSG00000138029	<i>HADHB</i>	up-regulated	0,814	1,08	0,557	
ENSG00000115756	<i>HPCAL1</i>	up-regulated	0,631	1,10	0,529	
ENSG00000100209	<i>HSCB</i>	up-regulated	0,811	1,18	1,12	0,791
ENSG00000185291	<i>IL3RA</i>	up-regulated	1,713	1,38	0,599	
ENSG00000184903	<i>IMMP2L</i>	up-regulated	0,677	1,07	0,542	
ENSG00000136718	<i>IMP4</i>	up-regulated	0,518	1,06	0,634	
ENSG00000161638	<i>ITGA5</i>	up-regulated	1,371	1,21	0,540	
ENSG00000066135	<i>KDM4A</i>	up-regulated	0,529	1,06	0,533	
ENSG00000127359	<i>KIAA1147</i>	up-regulated	1,221	1,17	0,563	
ENSG00000067082	<i>KLF6</i>	up-regulated	1,291	1,13	0,522	
ENSG00000115365	<i>LANCL1</i>	up-regulated	0,689	1,09	0,664	
ENSG00000172292	<i>LASS6</i>	up-regulated	0,874	1,06	0,667	
ENSG00000086730	<i>LAT2</i>	up-regulated	1,166	1,16	0,513	
ENSG00000168924	<i>LETM1</i>	up-regulated	0,441	1,08	0,508	
ENSG00000114988	<i>LMAN2L</i>	up-regulated	1,109	1,17	0,603	
ENSG00000169641	<i>LUZP1</i>	up-regulated	1,268	1,20	1,14	0,649
ENSG00000069020	<i>MAST4</i>	up-regulated	0,469	1,13	1,07	0,611
ENSG00000124217	<i>MOCS3</i>	up-regulated	0,608	1,16	0,503	
ENSG00000113048	<i>MRPS27</i>	up-regulated	0,633	1,09	1,09	0,534
ENSG00000205362	<i>MT1A</i>	up-regulated	1,792	1,26	0,700	
ENSG00000169688	<i>MT1B</i>	up-regulated	0,595	1,07	0,536	
ENSG00000205361	<i>MT1DP</i>	up-regulated	0,870	1,16	0,680	
ENSG00000164258	<i>NDUFS4</i>	up-regulated	0,604	1,09	0,593	
ENSG00000153406	<i>NMRAL1</i>	up-regulated	0,681	1,09	0,564	
ENSG00000141101	<i>NOB1</i>	up-regulated	1,169	1,15	1,11	0,738
ENSG00000101361	<i>NOP56</i>	up-regulated	0,652	1,09	0,556	
ENSG00000025434	<i>NR1H3</i>	up-regulated	0,404	1,06	1,23	0,502
ENSG00000117481	<i>NSUN4</i>	up-regulated	0,700	1,09	0,606	
ENSG00000155100	<i>OTUD6B</i>	up-regulated	0,892	1,09	0,527	
ENSG00000175198	<i>PCCA</i>	up-regulated	0,798	1,10	0,515	
ENSG00000121680	<i>PEX16</i>	up-regulated	0,525	1,09	0,503	
ENSG00000107537	<i>PHYH</i>	up-regulated	0,852	1,16	0,668	
ENSG00000145632	<i>PLK2</i>	up-regulated	1,858	1,36	0,530	
ENSG00000085998	<i>POMGNT1</i>	up-regulated	0,443	1,08	0,524	
ENSG00000147535	<i>PPAPDC1B</i>	up-regulated	0,633	1,13	0,514	
ENSG00000126457	<i>PRMT1</i>	up-regulated	0,960	1,14	0,667	
ENSG00000183255	<i>PTTG1IP</i>	up-regulated	0,976	1,10	0,581	
ENSG00000130202	<i>PVRL2</i>	up-regulated	1,014	1,17	0,572	
ENSG00000006451	<i>RALA</i>	up-regulated	0,796	1,08	0,614	
ENSG00000131795	<i>RBM8A</i>	up-regulated	0,532	1,06	0,540	
ENSG00000187147	<i>RNF220</i>	up-regulated	0,840	1,09	0,615	
ENSG00000232580	<i>RP1-80B9.1</i>	up-regulated	0,638	1,08	0,559	
ENSG00000232549	<i>RP1-93C23.1</i>	up-regulated	0,486	1,09	0,527	
ENSG00000213228	<i>RP11-371B4.1</i>	up-regulated	0,645	1,09	0,518	

ENSG00000213673	RP11-436F9.2	up-regulated	0,696	1,09		0,638
ENSG00000224948	RP11-443A13.2	up-regulated	0,660	1,18		0,510
ENSG00000227556	RP11-472F19.1	up-regulated	0,972	1,29		0,510
ENSG00000239405	RP11-475N22.2	up-regulated	0,625	1,10		0,644
ENSG00000240540	RP11-508K19.1	up-regulated	0,615	1,15		0,586
ENSG00000224597	RP11-534G20.1	up-regulated	0,443	1,07		0,567
ENSG00000204272	RP11-622K12.1	up-regulated	0,642	1,10		0,512
ENSG00000226970	RP11-82H13.1	up-regulated	0,879	1,27		0,501
ENSG00000223390	RP11-91A18.2	up-regulated	0,468	1,09		0,543
ENSG00000213791	RP11-941H19.2	up-regulated	0,494	1,11		0,515
ENSG00000225377	RP5-1103G7.1	up-regulated	0,747	1,16		0,715
ENSG00000198755	RPL10A	up-regulated	0,487	1,04		0,496
ENSG00000181524	RPL24P4	up-regulated	0,851	1,09		0,539
ENSG00000071082	RPL31	up-regulated	0,725	1,08	1,13	0,561
ENSG00000144713	RPL32	up-regulated	0,977	1,12		0,505
ENSG00000197756	RPL37A	up-regulated	0,825	1,06	1,05	0,504
ENSG00000134419	RPS15A	up-regulated	0,562	1,09	1,11	0,532
ENSG00000073060	SCARB1	up-regulated	0,572	1,07		0,507
ENSG00000151967	SCHIP1	up-regulated	0,758	1,14		0,583
ENSG00000184702	Sep-05	up-regulated	-0,980	-1,12		-0,540
ENSG00000183605	SFXN4	up-regulated	0,730	1,10		0,543
ENSG00000154447	SH3RF1	up-regulated	0,901	1,20		0,643
ENSG00000197119	SLC25A29	up-regulated	0,776	1,09		0,520
ENSG00000215790	SLC35E2	up-regulated	0,326	1,06		0,531
ENSG00000110660	SLC35F2	up-regulated	0,925	1,12		0,531
ENSG00000143570	SLC39A1	up-regulated	0,796	1,15		0,674
ENSG00000196950	SLC39A10	up-regulated	1,274	1,10		0,521
ENSG00000114544	SLC41A3	up-regulated	0,624	1,08	1,05	0,618
ENSG00000201348	SNORA73	up-regulated	1,370	1,26		0,646
ENSG00000182004	SNRPE	up-regulated	1,048	1,13		0,556
ENSG00000124766	SOX4	up-regulated	1,506	1,21	1,29	0,715
ENSG00000099203	TMED1	up-regulated	0,500	1,13	1,04	0,557
ENSG00000184584	TMEM173	up-regulated	1,153	1,11		0,513
ENSG00000167112	TRUB2	up-regulated	0,812	1,17		0,546
ENSG00000143222	UFC1	up-regulated	0,520	1,06	1,06	0,491
ENSG00000183520	UTP11L	up-regulated	0,624	1,09		0,521
ENSG00000165637	VDAC2	up-regulated	0,643	1,07		0,496
ENSG00000071462	WBSCR22	up-regulated	0,600	1,10		0,538
ENSG00000005448	WDR54	up-regulated	0,978	1,20		0,636
ENSG00000196981	WDR5B	up-regulated	0,696	1,06		0,576
ENSG00000156795	WDYHV1	up-regulated	0,516	1,09		0,557
ENSG00000186153	WVOX	up-regulated	0,609	1,06		0,506
ENSG00000100219	XBP1	up-regulated	0,807	1,09		0,564
ENSG00000170027	YWHAG	up-regulated	0,692	1,04		0,571
ENSG00000184307	ZDHHC23	up-regulated	0,512	1,06		0,511
ENSG00000197714	ZNF460	up-regulated	0,713	1,08		0,565
ENSG00000162714	ZNF496	up-regulated	0,609	1,08	1,07	0,678
ENSG00000196357	ZNF565	up-regulated	0,505	1,11		0,527
ENSG00000227124	ZNF717	up-regulated	0,513	1,07		0,522
ENSG00000197128	ZNF772	up-regulated	0,770	1,16		0,563
ENSG00000178917	ZNF852	up-regulated	0,898	1,12		0,553
ENSG00000221923	ZNF880	up-regulated	0,633	1,15		0,527
ENSG00000135776	ABCB10	down-regulated	-1,452	-1,23		-0,584

ENSG00000236472	AC002401.2	down-regulated	-0,550	-1,16	-0,535
ENSG00000237411	AC003043.4	down-regulated	-2,000	-1,26	-0,587
ENSG00000213904	AC004785.1	down-regulated	-0,678	-1,11	-0,650
ENSG00000227865	AC004849.1	down-regulated	-0,791	-1,15	-0,557
ENSG00000172148	AC005255.1	down-regulated	-0,338	-1,09	-0,542
ENSG00000233108	AC006042.3	down-regulated	-0,833	-1,18	-0,516
ENSG00000234385	AC007278.1	down-regulated	-2,227	-1,33	-0,537
ENSG00000227791	AC007365.2	down-regulated	-0,497	-1,18	-0,529
ENSG00000247774	AC008083.2	down-regulated	-0,493	-1,12	-0,532
ENSG00000245137	AC018836.1	down-regulated	-1,216	-1,21	-0,522
ENSG00000240799	AC025627.12	down-regulated	-0,717	-1,12	-0,507
ENSG00000244523	AC027237.4	down-regulated	-0,891	-1,27	-0,570
ENSG00000246882	AC069209.1	down-regulated	-1,021	-1,27	-0,559
ENSG00000246546	AC069335.1	down-regulated	-1,482	-1,36	-0,634
ENSG00000239777	AC091189.1	down-regulated	-1,111	-1,32	-0,509
ENSG00000206082	AC092299.1	down-regulated	-1,559	-1,15	-0,591
ENSG00000214232	AC093668.2	down-regulated	-1,678	-1,36	-0,631
ENSG00000153815	AC099524.2	down-regulated	-1,015	-1,11	-0,513
ENSG00000247375	AC099795.1	down-regulated	-1,549	-1,27	-0,540
ENSG00000203647	AC106827.1	down-regulated	-1,325	-1,28	-0,560
ENSG00000247116	AC115102.1	down-regulated	-1,035	-1,15	-0,528
ENSG00000233175	AC138150.1	down-regulated	-1,134	-1,18	-0,521
ENSG00000224652	AC139666.1	down-regulated	-0,302	-1,05	-0,508
ENSG00000167433	AC140658.4	down-regulated	-0,712	-1,16	-0,507
ENSG00000211790	AE000659.14	down-regulated	-1,092	-1,29	-0,528
ENSG00000246791	AF305872.4	down-regulated	-1,902	-1,39	-0,574
ENSG00000245194	AL031588.1	down-regulated	-0,836	-1,16	-0,633
ENSG00000247894	AL353795.1	down-regulated	-1,624	-1,29	-0,551
ENSG00000247866	AL390718.1	down-regulated	-0,612	-1,08	-0,514
ENSG00000152766	ANKRD22	down-regulated	-2,722	-1,34	-0,573
ENSG00000245148	AP003065.3	down-regulated	-1,101	-1,32	-0,504
ENSG00000213390	ARHGAP19	down-regulated	-0,724	-1,08	-0,564
ENSG00000123191	ATP7B	down-regulated	-0,861	-1,15	-0,527
ENSG00000198908	BHLHB9	down-regulated	-0,369	-1,07	-0,502
ENSG00000110200	C11orf51	down-regulated	-1,017	-1,10	-0,620
ENSG00000181751	C5orf30	down-regulated	-1,331	-1,18	-0,511
ENSG00000198663	C6orf89	down-regulated	-0,516	-1,04	-0,570
ENSG00000169193	CCDC126	down-regulated	-0,907	-1,19	-0,554
ENSG00000105173	CCNE1	down-regulated	-0,863	-1,15	-0,545
ENSG00000213897	CD177P	down-regulated	-1,627	-1,27	-0,608
ENSG00000102543	CDADC1	down-regulated	-1,165	-1,26	-0,527
ENSG00000004897	CDC27	down-regulated	-0,922	-1,09	-0,538
ENSG00000105388	CEACAM5	down-regulated	-0,363	-1,08	-0,507
ENSG00000236123	CEACAMP11	down-regulated	-1,515	-1,39	-0,639
ENSG00000106789	CORO2A	down-regulated	-1,377	-1,15	-0,521
ENSG00000113742	CPEB4	down-regulated	-1,162	-1,16	-0,596
ENSG00000196188	CTSE	down-regulated	-3,171	-1,75	-0,751
ENSG00000245073	D87015.1	down-regulated	-1,659	-1,36	-0,495
ENSG00000205250	E2F4	down-regulated	-0,470	-1,05	-0,516
ENSG00000165891	E2F7	down-regulated	-0,952	-1,14	-0,615
ENSG00000148730	EIF4EBP2	down-regulated	-0,800	-1,08	-0,622
ENSG00000138185	ENTPD1	down-regulated	-1,500	-1,24	-0,618
ENSG00000186871	ERCC6L	down-regulated	-0,805	-1,13	-0,538

ENSG00000101447	<i>FAM83D</i>	down-regulated	-0,807	-1,10		-0,580
ENSG00000223839	<i>FAM95B1</i>	down-regulated	-0,481	-1,09		-0,525
ENSG00000065970	<i>FOXJ2</i>	down-regulated	-0,667	-1,09		-0,544
ENSG00000102149	<i>GATA1</i>	down-regulated	-0,720	-1,10		-0,507
ENSG00000023909	<i>GCLM</i>	down-regulated	-1,493	-1,28		-0,609
ENSG00000165702	<i>GFI1B</i>	down-regulated	-1,402	-1,15		-0,537
ENSG00000106419	<i>GLCCI1</i>	down-regulated	-0,501	-1,09	-1,11	-0,535
ENSG00000118990	<i>GLRXP3</i>	down-regulated	-0,906	-1,22		-0,598
ENSG00000187037	<i>GPR141</i>	down-regulated	-1,345	-1,26		-0,554
ENSG00000228543	<i>GS1-519E5.1</i>	down-regulated	-0,753	-1,16		-0,507
ENSG00000075218	<i>GTSE1</i>	down-regulated	-0,372	-1,07		-0,517
ENSG00000153814	<i>JAZF1</i>	down-regulated	-1,135	-1,21		-0,619
ENSG00000114166	<i>KAT2B</i>	down-regulated	-1,543	-1,19		-0,646
ENSG00000120696	<i>KBTD7</i>	down-regulated	-2,306	-1,39		-0,517
ENSG00000116852	<i>KIF21B</i>	down-regulated	-0,863	-1,09	-1,22	-0,531
ENSG00000109787	<i>KLF3</i>	down-regulated	-0,936	-1,11		-0,607
ENSG00000118263	<i>KLF7</i>	down-regulated	-0,658	-1,12		-0,526
ENSG00000244482	<i>LILRA6</i>	down-regulated	-1,209	-1,28		-0,510
ENSG00000134046	<i>MBD2</i>	down-regulated	-0,544	-1,06		-0,537
ENSG00000105402	<i>NAPA</i>	down-regulated	-0,744	-1,04		-0,561
ENSG00000141562	<i>NARF</i>	down-regulated	-0,740	-1,11		-0,604
ENSG00000140396	<i>NCOA2</i>	down-regulated	-0,900	-1,10		-0,619
ENSG00000198646	<i>NCOA6</i>	down-regulated	-0,749	-1,10		-0,513
ENSG00000171840	<i>NINJ2</i>	down-regulated	-0,994	-1,21		-0,685
ENSG00000148572	<i>NRBF2</i>	down-regulated	-1,218	-1,21		-0,520
ENSG00000180068	<i>OR3A4</i>	down-regulated	-0,722	-1,18		-0,537
ENSG00000157212	<i>PAXIP1</i>	down-regulated	-0,651	-1,14		-0,570
ENSG00000143627	<i>PKLR</i>	down-regulated	-1,323	-1,17		-0,682
ENSG00000126003	<i>PLAGL2</i>	down-regulated	-0,869	-1,17		-0,599
ENSG00000159266	<i>PLEKHM1P</i>	down-regulated	-0,985	-1,14		-0,610
ENSG00000152229	<i>PSTPIP2</i>	down-regulated	-1,148	-1,16		-0,534
ENSG00000110400	<i>PVRL1</i>	down-regulated	-0,960	-1,13		-0,577
ENSG00000089159	<i>PXN</i>	down-regulated	-0,800	-1,09		-0,513
ENSG00000111540	<i>RAB5B</i>	down-regulated	-1,727	-1,13		-0,604
ENSG00000141084	<i>RANBP10</i>	down-regulated	-1,053	-1,16		-0,624
ENSG00000089902	<i>RCOR1</i>	down-regulated	-0,938	-1,13		-0,613
ENSG00000226281	<i>RP1-80N2.1</i>	down-regulated	-1,153	-1,18		-0,564
ENSG00000227321	<i>RP11-100G15.3</i>	down-regulated	-0,314	-1,21		-0,509
ENSG00000236849	<i>RP11-151D14.1</i>	down-regulated	-0,283	-1,13		-0,532
ENSG00000224956	<i>RP11-206L10.6</i>	down-regulated	-2,160	-1,42		-0,528
ENSG00000213073	<i>RP11-288H12.1</i>	down-regulated	-0,819	-1,19		-0,545
ENSG00000237307	<i>RP11-308D16.4</i>	down-regulated	-0,620	-1,09		-0,501
ENSG00000230581	<i>RP11-390F4.1</i>	down-regulated	-0,398	-1,05		-0,501
ENSG00000236254	<i>RP11-39K24.9</i>	down-regulated	-0,884	-1,32		-0,556
ENSG00000230506	<i>RP11-416N4.2</i>	down-regulated	-0,459	-1,13		-0,624
ENSG00000213896	<i>RP11-546M4.1</i>	down-regulated	-1,521	-1,45		-0,531
ENSG00000215237	<i>RP11-54D18.3</i>	down-regulated	-0,275	-1,09		-0,536
ENSG00000203266	<i>RP11-560A15.1</i>	down-regulated	-0,590	-1,16		-0,524
ENSG00000244471	<i>RP11-78J21.1</i>	down-regulated	-1,020	-1,28		-0,576
ENSG00000240777	<i>RP3-435D1.2</i>	down-regulated	-0,358	-1,07		-0,583
ENSG00000232333	<i>RPS27AP2</i>	down-regulated	-0,528	-1,26		-0,524
ENSG00000148484	<i>RSU1</i>	down-regulated	-0,572	-1,08		-0,500
ENSG00000136719	<i>SAP130</i>	down-regulated	-0,517	-1,06		-0,540

ENSG00000100003	SEC14L2	down-regulated	-0,694	-1,12		-0,503
ENSG00000133488	SEC14L4	down-regulated	-1,343	-1,17		-0,534
ENSG00000138758	Sep-11	down-regulated	1,123	1,13		0,510
ENSG00000140195	SLC12A6	down-regulated	-0,849	-1,13		-0,538
ENSG00000110693	SOX6	down-regulated	-2,029	-1,48		-0,602
ENSG00000124214	STAU1	down-regulated	-0,520	-1,04		-0,501
ENSG00000082146	STRADB	down-regulated	-1,295	-1,21		-0,522
ENSG00000166900	STX3	down-regulated	-1,152	-1,15		-0,505
ENSG00000166046	TCP11L2	down-regulated	-1,721	-1,21		-0,511
ENSG00000198176	TFDP1	down-regulated	-1,095	-1,11		-0,633
ENSG00000136842	TMOD1	down-regulated	-1,839	-1,36		-0,561
ENSG00000175274	TP53I11	down-regulated	-0,952	-1,09		-0,531
ENSG00000140416	TPM1	down-regulated	-1,096	-1,13		-0,633
ENSG00000115993	TRAK2	down-regulated	-1,618	-1,28		-0,543
ENSG00000166925	TSC22D4	down-regulated	-0,517	-1,07		-0,627
ENSG00000048140	TSPAN17	down-regulated	-0,724	-1,09		-0,515
ENSG00000214192	UBE2V1P2	down-regulated	-1,091	-1,19		-0,509
ENSG00000170236	USP50	down-regulated	-0,216	-1,09		-0,511
ENSG00000147548	WHSC1L1	down-regulated	-0,744	-1,11		-0,535
ENSG00000224328	XXbac-BPG27H4.6	down-regulated	-0,640	-1,09		-0,497
ENSG00000199400	Y_RNA	down-regulated	-1,580	-1,24		-0,604
ENSG00000246814	Z98744.3	down-regulated	-2,230	-1,33		-0,545
ENSG00000100711	ZFYVE21	down-regulated	-0,383	-1,04		-0,509
ENSG00000165244	ZNF367	down-regulated	-0,500	-1,04		-0,512
ENSG00000128274	A4GALT	down-regulated	-0,613	-1,09		-0,589
ENSG00000005075	POLR2J	down-regulated	-0,362	-1,06		-0,531
ENSG00000038532	CLEC16A	down-regulated	-0,575	-1,07		-0,602
ENSG00000060237	WNK1	down-regulated	-1,365	-1,21		-0,578
ENSG00000105723	GSK3A	down-regulated	-0,705	-1,08		-0,531
ENSG00000110700	RPS13	down-regulated	-1,661	-1,33		-0,511
ENSG00000123472	ATPAF1	down-regulated	-0,567	-1,09		-0,501
ENSG00000133318	RTN3	down-regulated	-0,882	-1,08		-0,539
ENSG00000135365	PHF21A	down-regulated	-0,520	-1,08		-0,511
ENSG00000143321	HDGF	down-regulated	-0,496	-1,05		-0,585
ENSG00000155749	ALS2CR12	down-regulated	-0,652	-1,22		-0,519
ENSG00000157570	TSPAN18	down-regulated	-0,826	-1,14		-0,512
ENSG00000183706	OR4N4	down-regulated	-0,202	-1,07		-0,522
ENSG00000183762	KREMEN1	down-regulated	-0,794	-1,09		-0,566
ENSG00000196374	HIST1H2BM	down-regulated	-1,918	-1,15		-0,619
ENSG00000196961	AP2A1	down-regulated	-0,871	-1,08		-0,609
ENSG00000198637	AC016596.1	down-regulated	-1,773	-1,21		-0,561
ENSG00000198848	CES1	down-regulated	-1,805	-1,35		-0,514
ENSG00000206552	RP11-141M3.3	down-regulated	-0,455	-1,08		-0,502
ENSG00000228389	AC068039.1	down-regulated	-1,071	-1,18		-0,553
ENSG00000235953	AL353805.1	down-regulated	-0,672	-1,09		-0,584
ENSG00000246248	AC009283.2	down-regulated	-0,517	-1,24		-0,505
ENSG00000107833	NPM3	up-regulated	0,625	1,09	1,13	0,604
ENSG00000006695	COX10	up-regulated	0,508	1,06		0,585
ENSG00000010270	STARD3NL	up-regulated	0,684	1,12		0,571
ENSG00000027847	B4GALT7	up-regulated	0,389	1,05		0,529
ENSG00000067606	PRKCZ	up-regulated	0,311	1,06		0,519
ENSG00000074660	SCARF1	up-regulated	0,559	1,12		0,570
ENSG00000083814	ZNF671	up-regulated	0,909	1,23		0,518

ENSG00000089123	<i>TASP1</i>	up-regulated	0,811	1,11	0,540
ENSG00000090432	<i>MUL1</i>	up-regulated	0,624	1,12	0,532
ENSG00000091183	<i>IL5RA</i>	up-regulated	0,773	1,05	0,503
ENSG00000101365	<i>IDH3B</i>	up-regulated	0,420	1,05	0,541
ENSG00000105132	<i>ZNF550</i>	up-regulated	0,504	1,13	0,523
ENSG00000105343	<i>ATP5SL</i>	up-regulated	0,710	1,13	0,505
ENSG00000108479	<i>GALK1</i>	up-regulated	0,447	1,05	0,517
ENSG00000108963	<i>DPH1</i>	up-regulated	0,611	1,08	0,574
ENSG00000109511	<i>ANXA10</i>	up-regulated	0,175	1,06	0,535
ENSG00000111786	<i>SFRS9</i>	up-regulated	0,570	1,06	0,565
ENSG00000112855	<i>HARS2</i>	up-regulated	0,574	1,08	0,576
ENSG00000118579	<i>MED28</i>	up-regulated	0,950	1,11	0,577
ENSG00000121005	<i>CRISPLD1</i>	up-regulated	0,798	1,15	0,536
ENSG00000122068	<i>FYTTD1</i>	up-regulated	0,490	1,07	0,521
ENSG00000125945	<i>ZNF436</i>	up-regulated	0,456	1,09	0,505
ENSG00000131067	<i>GGT7</i>	up-regulated	0,438	1,10	0,507
ENSG00000131779	<i>PEX11B</i>	up-regulated	0,736	1,09	0,512
ENSG00000132535	<i>DLG4</i>	up-regulated	0,576	1,14	0,621
ENSG00000136710	<i>CCDC115</i>	up-regulated	0,567	1,09	0,500
ENSG00000146278	<i>PNRC1</i>	up-regulated	0,688	1,08	0,588
ENSG00000149600	<i>COMMD7</i>	up-regulated	0,802	1,11	0,632
ENSG00000151135	<i>C12orf23</i>	up-regulated	0,895	1,11	0,611
ENSG00000151576	<i>QTRTD1</i>	up-regulated	0,763	1,09	0,607
ENSG00000155368	<i>DBI</i>	up-regulated	1,016	1,13	0,552
ENSG00000157036	<i>EXOGL</i>	up-regulated	0,537	1,07	0,533
ENSG00000158526	<i>TSR2</i>	up-regulated	0,706	1,12	0,538
ENSG00000161980	<i>POLR3K</i>	up-regulated	0,783	1,06	0,521
ENSG00000162302	<i>RPS6KA4</i>	up-regulated	0,515	1,09	0,519
ENSG00000164002	<i>DEM1</i>	up-regulated	0,467	1,09	0,568
ENSG00000167543	<i>TP53I13</i>	up-regulated	0,489	1,06	0,562
ENSG00000167930	<i>ITFG3</i>	up-regulated	0,598	1,09	0,624
ENSG00000168495	<i>POLR3D</i>	up-regulated	0,746	1,06	0,559
ENSG00000169715	<i>MT1E</i>	up-regulated	1,476	1,17	0,570
ENSG00000169813	<i>HNRNPF</i>	up-regulated	0,510	1,09	0,514
ENSG00000171425	<i>ZNF581</i>	up-regulated	0,759	1,17	0,532
ENSG00000172840	<i>PDP2</i>	up-regulated	0,771	1,09	0,553
ENSG00000174166	<i>RP11-454H13.1</i>	up-regulated	0,695	1,10	0,601
ENSG00000179855	<i>GIPC3</i>	up-regulated	0,520	1,10	0,629
ENSG00000182362	<i>C21orf57</i>	up-regulated	0,335	1,09	0,577
ENSG00000184857	<i>TMEM186</i>	up-regulated	0,493	1,11	0,529
ENSG00000187185	<i>TSPYL5</i>	up-regulated	0,688	1,10	0,633
ENSG00000198046	<i>ZNF667</i>	up-regulated	0,598	1,18	0,504
ENSG00000198366	<i>HIST1H3A</i>	up-regulated	1,270	1,20	0,490
ENSG00000204264	<i>PSMB8</i>	up-regulated	0,730	1,10	0,525
ENSG00000204590	<i>GNL1</i>	up-regulated	0,521	1,10	0,520
ENSG00000205358	<i>MT1H</i>	up-regulated	0,863	1,22	0,647
ENSG00000205364	<i>MT1M</i>	up-regulated	0,492	1,15	0,587
ENSG00000213190	<i>MLLT11</i>	up-regulated	0,963	1,12	0,569
ENSG00000213297	<i>ZNF625</i>	up-regulated	0,512	1,13	0,572
ENSG00000232521	<i>AC023424.1</i>	up-regulated	0,640	1,09	0,509
ENSG00000233016	<i>SNORA43</i>	up-regulated	0,411	1,11	0,518
ENSG00000238096	<i>AC120049.1</i>	up-regulated	0,566	1,13	0,556
ENSG00000248045	<i>AC096727.4</i>	up-regulated	0,289	1,04	0,557

Correlation Gamma			Assigned Patter		
Series (EXON)	Series 1+2 (MILE)	Assigned Pattern_ Full List	Main Series EXON)	Series 1+2 (MILE)	
adjusted P value	Gamma value	adjusted P value			
0	0,692	0	pattern 1	p1	p1
0	0,581	0	pattern 1	p1	p1
0	0,610	0	pattern 1	intUp	p1
0	0,660	0		p1	intUp
0	0,552	0	pattern 1	p1	intUp
0	0,536	0	intermUp	intUp	p1
0	0,625	0	pattern 1	p1	p1
0	0,744	0	pattern 1	intUp	p1
0	0,545	0		p1	intUp
0	0,660	0	pattern 1	p1	intUp
0	0,569	0	pattern 1	p1	p1
0	0,774	0	pattern 1	p1	p1
0	0,583	0	pattern 1	p1	p1
0	0,697	0	pattern 1	intUp	p1
0	0,680	0		p1	p1
0	0,647	0	intermUp	intUp	p1
0	0,561	0	pattern 1	intUp	p1
0	0,592	0	pattern 1	p1	intUp
0	0,506	0	pattern 1	p1	intUp
0	0,518	0	pattern 1	p1	p1
0	0,539	0	pattern 1	p1	p1
0	0,503	0	pattern 1	p1	p1
0	0,763	0	pattern 1	p1	p1
1	0,566	0	pattern 1	p1	intUp
1	0,583	0	pattern 1	p1	intUp
0	0,525	0	pattern 1	intUp	p1
0	0,533	0	intermUp	p1	intUp
0	0,584	0	pattern 1	p1	p1
0	0,508	0	intermUp	intUp	p1
0	0,582	0	pattern 1	p1	p1
0	0,615	0	pattern 1	intUp	p1
0	0,534	0	pattern 1	intUp	p1
0	0,556	0	pattern 1	p1	intUp
0	0,618	0	pattern 1	p1	p1
0	0,507	0	pattern 1	p1	intUp
0	0,683	0	pattern 1	p1	intUp
0	0,772	0	pattern 1	p1	p1
0	0,608	0	intermUp	intUp	p1
0	0,794	0	pattern 1	p1	p1
0	0,512	0	intermUp	intUp	p1
0	0,526	0	intermUp	intUp	p1
0	0,509	0	pattern 1	p1	p1
0	0,520	0	pattern 1	p1	p1
0	0,516	0	pattern 1	p1	p1
0	0,739	0	pattern 1	p1	intUp
1	0,503	0	intermUp	intUp	p1
0	0,584	0	pattern 1	p1	p1
0	0,595	0	pattern 1	p1	p1
0	0,514	0	intermUp	intUp	p1
0	0,605	0	intermUp	intUp	p1

0	0,563	0	intermUp	intUp	p1
0	0,543	0	pattern 1	intUp	p1
0	0,505	0	pattern 1	p1	p1
0	0,510	0	pattern 1	intUp	p1
0	0,552	0	intermUp	p1	intUp
0	0,587	0	pattern 1	p1	p1
0	0,694	0	pattern 1	p1	p1
0	0,586	0	pattern 1	intUp	p1
0	0,705	0	pattern 1	p1	p1
0	0,659	0	pattern 1	p1	p1
0	0,606	0	pattern 1	p1	p1
0	0,714	0	pattern 1	p1	p1
0	0,632	0	pattern 1	p1	intUp
0	0,808	0	pattern 1	p1	p1
0	0,517	0	pattern 1	p1	p1
0	0,698	0	pattern 1	intUp	p1
0	0,555	0	pattern 1	p1	p1
0	0,598	0	pattern 1	p1	p1
0	0,687	0	pattern 1	p1	p1
0	0,559	0	pattern 1	intUp	p1
0	0,606	0	intermUp	intUp	p1
0	0,599	0	intermUp	p1	intUp
0	0,618	0	pattern 1	p1	p1
0	0,533	0	pattern 1	intUp	p1
0	0,697	0	pattern 1	p1	intUp
0	0,618	0	intermUp	intUp	p1
0	0,500	0	pattern 1	intUp	p1
0	0,563	0	intermUp	p1	p1
0	0,537	0	intermUp	intUp	p1
0	0,520	0	pattern 1	p1	intUp
0	0,501	0	pattern 1	p1	intUp
0	0,563	0	pattern 1	p1	p1
0	0,510	0	pattern 1	intUp	p1
0	-0,532	0	pattern 2	p2	intDw
0	-0,555	0	pattern 2	p2	p2
0	-0,590	0		p2	intDw
0	-0,562	0	pattern 2	p2	p2
0	-0,576	0	pattern 2	p2	p2
0	-0,673	0	pattern 2	p2	p2
0	-0,578	0	pattern 2	p2	p2
0	-0,629	0	intermDw	p2	intDw
0	-0,662	0	pattern 2	p2	p2
0	-0,565	0	intermDw	p2	intDw
0	-0,513	0	pattern 2	p2	p2
0	-0,641	0	intermDw	p2	intDw
0	-0,683	0	pattern 2	p2	p2
0	-0,701	0	pattern 2	p2	p2
0	-0,640	0	intermDw	p2	intDw
0	-0,573	0	pattern 2	p2	p2
0	-0,719	0	pattern 2	p2	intDw
0	-0,545	0	pattern 2	p2	p2
0	-0,537	0	pattern 2	p2	p2
0	-0,543	0	intermDw	p2	intDw

0	-0,551	0	intermDw	p2	intDw
0	-0,550	0	pattern 2	p2	p2
0	-0,524	0	pattern 2	p2	p2
0	-0,576	0	intermDw	p2	intDw
1	-0,688	0	pattern 2	p2	p2
0	-0,512	0	pattern 4	p2	intDw
0	-0,556	0	pattern 2	p2	p2
0	-0,671	0	pattern 2	p2	p2
1	-0,627	0	pattern 2	p2	p2
0	-0,541	0	pattern 2	p2	p2
0	-0,636	0	intermDw	p2	intDw
0	-0,628	0	intermDw	p2	intDw
0	-0,632	0	pattern 2	p2	intDw
1	-0,513	0	intermDw	p2	intDw
1	-0,519	0	pattern 2	p2	intDw
0	-0,596	0	intermDw	p2	intDw
0	-0,593	0	pattern 2	p2	p2
1	-0,524	0	pattern 2	p2	p2
0	-0,549	0	pattern 2	p2	p2
0	-0,579	0	pattern 4	p2	intDw
0	-0,531	0	pattern 2	p2	p2
0	-0,555	0	intermDw	p2	intDw
0	-0,681	0	intermDw	p2	intDw
0	-0,614	0	pattern 2	p2	p2
0	-0,623	0	pattern 2	p2	p2
0	-0,584	0		intDw	p2
1	-0,586	0	intermDw	p2	intDw
0	-0,506	0	pattern 4	intDw	p2
0	-0,585	0	pattern 2	p2	p2
0	-0,523	0	intermDw	p2	intDw
0	-0,608	0	pattern 2	p2	p2
0	-0,683	0	intermDw	p2	p2
0	-0,599	0	intermDw	p2	intDw
0	-0,705	0	intermDw	p2	intDw
0	-0,522	0	intermDw	p2	intDw
0	-0,583	0	pattern 4	p2	intDw
0	-0,521	0	intermDw	p2	intDw
0	-0,543	0	intermDw	p2	intDw
0	-0,576	0	pattern 2	p2	intDw
0	-0,568	0	pattern 2	p2	intDw
0	-0,559	0	intermDw	p2	p2
1	-0,699	0	pattern 2	p2	p2
0	-0,544	0	pattern 2	p2	intDw
0	-0,762	0	intermDw	p2	intDw
0	-0,611	0	pattern 2	p2	p2
0	-0,606	0	intermDw	p2	intDw
0	-0,551	0	pattern 2	p2	p2
0	-0,640	0	pattern 2	p2	p2
0	-0,601	0	pattern 2	p2	p2
0	-0,521	0	intermDw	p2	intDw
0	0,573	0	pattern 3	p3	p3
0	0,606	0	pattern 3	p3	p3
0	0,801	0	pattern 3	intUp	p3

0	0,543	0	intermUp	p3	intUp
0	0,561	0	pattern 3	p3	p3
0	0,537	0	pattern 3	intUp	p3
0	0,588	0	pattern 3	intUp	p3
0	0,526	0	pattern 3	intUp	p3
0	0,504	0	pattern 3	p2	intUp
0	0,651	0		intUp	p3
0	0,525	0	pattern 3	intUp	p3
0	0,502	0	pattern 3	p3	p3
0	0,554	0	pattern 3	p3	p3
0	0,583	0	pattern 3	p3	p3
0	0,592	0	pattern 3	p3	intUp
0	0,656	0	pattern 3	p3	intUp
0	0,571	0	pattern 3	p3	p3
0	0,624	0	pattern 3	p3	p3
0	0,608	0	pattern 3	p3	p3
0	0,678	0	pattern 3	p3	p3
0	0,586	0	pattern 3	p3	p3
0	0,648	0	pattern 3	p3	p3
0	0,514	0	intermUp	p3	intUp
1	0,681	0	pattern 3	p3	intUp
0	0,547	0	pattern 3	p3	p3
0	0,504	0	pattern 3	intUp	p3
0	-0,603	0	pattern 4	p4	p4
0	-0,518	0	pattern 4	p4	p4
0	-0,642	0	pattern 4	intDw	p4
0	-0,602	0	pattern 4	intDw	p4
0	-0,530	0	pattern 4	p4	p4
0	-0,576	0	pattern 4	intDw	p4
0	-0,579	0	pattern 4	p4	p4
0	-0,613	0	pattern 4	p4	p4
0	-0,660	0	pattern 4	intDw	p4
0	-0,667	0	pattern 4	intDw	p4
0	-0,762	0	pattern 4	intDw	p4
0	-0,639	0	pattern 4	p4	p4
0	-0,567	0	pattern 4	intDw	p4
0	-0,603	0	pattern 4	intDw	p4
0	-0,691	0	pattern 4	p4	p4
0	-0,668	0	pattern 4	p4	intDw
0	-0,533	0	pattern 4	intDw	p4
0	-0,664	0	pattern 4	intDw	p4
0	-0,666	0	pattern 4	intDw	p4
0	-0,695	0	pattern 4	p4	p4
0	-0,660	0	pattern 4	intDw	p4
0	-0,556	0	pattern 4	p4	p4
0	-0,712	0	pattern 4	intDw	p4
0	-0,646	0	pattern 4	intDw	p4
0	-0,756	0	pattern 4	p4	p4
1	-0,673	0	pattern 4	intDw	p4
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0	-0,770	0	pattern 4	p4	p4
0	-0,689	0	pattern 4	intDw	p4
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Gene Description

40S ribosomal protein S11
adenine phosphoribosyltransferase
ATPase, Na⁺/K⁺ transporting, beta 1 polypeptide
ATP synthase, H⁺ transporting, mitochondrial F0 complex, subunit C2 (subunit 9)
bone morphogenetic protein 1
basic leucine zipper and W2 domains 2
UPF0160 protein MYG1, mitochondrial Precursor

UPF0027 protein C22orf28
Uncharacterized protein C4orf14
non-protein coding RNA 219
small nucleolar RNA, C/D box 52
calcium modulating ligand
cyclin B1 interacting protein 1
cyclin G1
complement factor D (adipsin)
CKLF-like MARVEL transmembrane domain containing 3
dCMP deaminase
N(G),N(G)-dimethylarginine dimethylaminohydrolase 2 (Dimethylarginine dimethylaminohydrolase 2)(DDAH-2)(EC 3.5.3
dolichyl-diphosphooligosaccharide-protein glycosyltransferase
deoxyhypusine synthase
DEAH (Asp-Glu-Ala-His) box polypeptide 30
eukaryotic translation elongation factor 2
eukaryotic translation initiation factor 3, subunit K
FAD1 flavin adenine dinucleotide synthetase homolog (*S. cerevisiae*)
folylpolyglutamate synthase
guanidinoacetate N-methyltransferase
glioma tumor suppressor candidate region gene 2
guanine nucleotide binding protein (G protein), alpha 15 (Gq class)
guanine nucleotide binding protein (G protein), beta polypeptide 2-like 1
glutathione peroxidase 1
general transcription factor IIF, polypeptide 1, 74kDa
H3 histone, family 3B (H3.3B)
histidine triad nucleotide binding protein 1
histone cluster 1, H2bd
heat shock protein 90kDa alpha (cytosolic), class B member 1
IMP (inosine monophosphate) dehydrogenase 2
lactate dehydrogenase B
LETM1 domain containing 1
low density lipoprotein receptor-related protein 5-like
LysM, putative peptidoglycan-binding, domain containing 2
mitochondrial ribosomal protein S12
MYST histone acetyltransferase 1
nucleophosmin (nucleolar phosphoprotein B23, numatrin)
5', 3'-nucleotidase, cytosolic
programmed cell death 7
PDZ and LIM domain 1
phosphatidylethanolamine binding protein 1
phorbol-12-myristate-13-acetate-induced protein 1
PTC7 protein phosphatase homolog (*S. cerevisiae*)

proteasome (prosome, macropain) subunit, alpha type, 1
poly-U binding splicing factor 60KDa
RAB37, member RAS oncogene family
recombination activating gene 1 activating protein 1
Ras association (RalGDS/AF-6) domain family member 1
regulator of chromosome condensation 1

ribosomal protein L12
small nucleolar RNA, C/D box 68
small nucleolar RNA, C/D box 32A
ribosomal protein L18
ribosomal protein L22
ribosomal protein L28
small nucleolar RNA, C/D box 43
ribosomal protein S5
ribosomal protein S6
solute carrier family 25, member 36
solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 5
small nucleolar RNA host gene 8 (non-protein coding)
transcription factor A, mitochondrial
tissue factor pathway inhibitor (lipoprotein-associated coagulation inhibitor)
transmembrane protein 147
transmembrane protein 159
translocase of outer mitochondrial membrane 20 homolog (yeast)
topoisomerase (DNA) I, mitochondrial
TSC22 domain family, member 1
tetratricopeptide repeat domain 19
twisted gastrulation homolog 1 (Drosophila)
ubiquitin-conjugating enzyme E2E 1 (UBC4/5 homolog, yeast)
ubiquitin-fold modifier 1
unconventional SNARE in the ER 1 homolog (*S. cerevisiae*)
zinc finger and BTB domain containing 10
zinc finger protein 618

Tyrosine-protein kinase Sgk269 (EC 2.7.10.2)(Sugen kinase 269)
AKT interacting protein

Rho GTPase activating protein 24
arylsulfatase G
ATPase, Ca⁺⁺ transporting, type 2C, member 2
BMX non-receptor tyrosine kinase
Uncharacterized protein C20orf177
carbonic anhydrase IV
Cdk5 and Abl enzyme substrate 2
carcinoembryonic antigen-related cell adhesion molecule 21
carcinoembryonic antigen-related cell adhesion molecule 3
chitinase 1 (chitotriosidase)
C-type lectin domain family 4, member E
clathrin, heavy chain-like 1
cysteine-rich secretory protein 2
chondroitin sulfate N-acetylgalactosaminyltransferase 1
death-associated protein kinase 2
dynein, axonemal, heavy chain 10
E2F transcription factor 8

coagulation factor V (proaccelerin, labile factor)
F-box and WD repeat domain containing 2
FYVE, RhoGEF and PH domain containing 4
glutaredoxin (thioltransferase)
G protein-coupled receptor 155
HIR histone cell cycle regulation defective homolog A (*S. cerevisiae*)
Heat shock 70 kDa protein 1L (Heat shock 70 kDa protein 1-like)(Heat shock 70 kDa protein 1-Hom)(HSP70-Hom)
interaction protein for cytohesin exchange factors 1
potassium inwardly-rectifying channel, subfamily J, member 15
killer cell lectin-like receptor subfamily K, member 1
leukocyte immunoglobulin-like receptor, subfamily A (without TM domain), member 3
leucine rich repeat containing 4
MANSC domain containing 1
mitogen-activated protein kinase 1
microtubule associated serine/threonine kinase 3
matrix metalloproteinase 25
matrix metalloproteinase 27
neuron navigator 2
NEL-like 2 (chicken)
NFAT activating protein with ITAM motif 1
NLR family, CARD domain containing 4
nudix (nucleoside diphosphate linked moiety X)-type motif 19
orosomucoid 1
orosomucoid 2
peptidyl arginine deiminase, type II
6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 2
phospholipid scramblase 1
plexin C1
protein phosphatase, EF-hand calcium binding domain 1
protein kinase, AMP-activated, alpha 1 catalytic subunit
protein tyrosine phosphatase, receptor type, J
RAB11 family interacting protein 4 (class II)
RAS guanyl releasing protein 1 (calcium and DAG-regulated)
resistin
rogdi homolog (*Drosophila*)
S100 calcium binding protein A11
sideroflexin 1
signal-regulatory protein alpha
signal-regulatory protein beta 1
solute carrier family 16, member 14 (monocarboxylic acid transporter 14)
solute carrier family 25 (mitochondrial oxodicarboxylate carrier), member 21
syntrophin, beta 2 (dystrophin-associated protein A1, 59kDa, basic component 2)
supervillin
spectrin repeat containing, nuclear envelope 1
spectrin repeat containing, nuclear envelope 2
transmembrane protein 154
transmembrane protein 2
transient receptor potential cation channel, subfamily M, member 6
urothelial cancer associated 1 (non-protein coding)
zinc finger, DHHC-type containing 3

adenosine deaminase

angiopoietin 1

Uncharacterized protein C12orf76

calcium binding and coiled-coil domain 2
centrosomal protein 70kDa
CAP-GLY domain containing linker protein 2
collagen, type XXIV, alpha 1
EGF-like-domain, multiple 7
eukaryotic translation initiation factor 3, subunit G
family with sequence similarity 116, member B
fms-related tyrosine kinase 3
G protein-coupled receptor 114
homeobox A3
homeobox A7
microRNA 196b
homeobox B2
homeobox B3
inositol-3-phosphate synthase 1
KIAA0125
Meis homeobox 1
musashi homolog 2 (Drosophila)
PTPRF interacting protein, binding protein 1 (liprin beta 1)
RNA binding motif, single stranded interacting protein 2
steroidogenic acute regulatory protein
transmembrane and tetratricopeptide repeat containing 4
TWIST neighbor

annexin A3
arginase, liver
UPF0467 protein C5orf32
cathelicidin antimicrobial peptide
CD24 molecule
cytidine deaminase
carcinoembryonic antigen-related cell adhesion molecule 6 (non-specific cross reacting antigen)
carcinoembryonic antigen-related cell adhesion molecule 8
chitinase 3-like 1 (cartilage glycoprotein-39)
cytoskeleton-associated protein 4
C-type lectin domain family 4, member D
cysteine-rich secretory protein 3
ELOVL family member 5, elongation of long chain fatty acids (FEN1/Elo2, SUR4/Elo3-like, yeast)
grancalcin, EF-hand calcium binding protein
glycosyltransferase 1 domain containing 1
haptoglobin
IQ motif and Sec7 domain 1
integrin, alpha M (complement component 3 receptor 3 subunit)
lipocalin 2
lactotransferrin
maltase-glucoamylase (alpha-glucosidase)
matrix metalloproteinase 8 (neutrophil collagenase)
matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase)
peptidoglycan recognition protein 1
phospholipase B domain containing 1
glutaminyl-peptide cyclotransferase
RAB31, member RAS oncogene family
S100 calcium binding protein A12
S100 calcium binding protein A9
stomatin

transcobalamin I (vitamin B12 binding protein, R binder family)
WD repeat domain, phosphoinositide interacting 1

angio-associated, migratory cell protein

v-abl Abelson murine leukemia viral oncogene homolog 2 (arg, Abelson-related gene)

Putative uncharacterized protein ENSP00000371882

cDNA FLJ59433, highly similar to Elongation factor 1-gamma

Putative uncharacterized protein ENSP00000414550 Fragment

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Protein kinase-like protein SgK196 (Sugen kinase 196)

alcohol dehydrogenase 5 (class III), chi polypeptide, pseudogene 3

2-aminoethanethiol (cysteamine) dioxygenase

aldo-keto reductase family 1, member A1 (aldehyde reductase)

Putative uncharacterized protein HSD17B7P2

asparagine-linked glycosylation 2, alpha-1,3-mannosyltransferase homolog (*S. cerevisiae*)

AMME chromosomal region gene 1-like

ADP-ribosylation factor 6

ADP-ribosylation factor-like 3

armadillo repeat containing, X-linked 6

BCL2-antagonist/killer 1

B-cell receptor-associated protein 31

bladder cancer associated protein

bleomycin hydrolase

Berardinelli-Seip congenital lipodystrophy 2 (seipin)

bone marrow stromal cell antigen 2

Protein fat-free homolog (Another new gene 2 protein)

Protein SMG9 (Protein smg-9 homolog)

MYST/Esa1-associated factor 6

Uncharacterized protein C1orf43 (Hepatitis C virus NS5A-transactivated protein 4)(HCV NS5A-transactivated protein 4)(F

UPF0466 protein C22orf32, mitochondrial Precursor

Apoptosis-related protein 3 Precursor (APR-3)(p18)

Uncharacterized glycosyltransferase AER61 Precursor (EC 2.4.-.-)

Uncharacterized protein LOC389203
UPF0488 protein C8orf33
Alba-like protein C9orf23
core-binding factor, beta subunit
coiled-coil domain containing 43
chaperonin containing TCP1, subunit 4 (delta)
CD151 molecule (Raph blood group)
CD69 molecule
CD99 molecule
cyclin-dependent kinase 2 associated protein 1
cyclin-dependent kinase 9
carbohydrate (chondroitin 4) sulfotransferase 11
cold inducible RNA binding protein
cornichon homolog (Drosophila)
CCR4-NOT transcription complex, subunit 8
COX18 cytochrome c oxidase assembly homolog (*S. cerevisiae*)
cysteine-rich with EGF-like domains 1
cysteine-serine-rich nuclear protein 1

catenin (cadherin-associated protein), beta 1, 88kDa
cytochrome P450, family 51, subfamily A, polypeptide 1
defender against cell death 1
DNA-damage-inducible transcript 4
DEAD (Asp-Glu-Ala-Asp) box polypeptide 5
dual specificity phosphatase 3
dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 2
eukaryotic translation elongation factor 1 delta (guanine nucleotide exchange protein)
eukaryotic translation initiation factor 3, subunit I
eukaryotic translation initiation factor 4H
elongation protein 2 homolog (*S. cerevisiae*)
epithelial membrane protein 1
epithelial membrane protein 3
v-ets erythroblastosis virus E26 oncogene homolog 2 (avian)
exosome component 4
family with sequence similarity 113, member A
family with sequence similarity 96, member B
GPN-loop GTPase 2
glutathione peroxidase pseudogene 2
G-rich RNA sequence binding factor 1
glutamate-rich WD repeat containing 1
H3 histone, family 3C
HIG1 hypoxia inducible domain family, member 2A
histone cluster 2, H2aa4
histone cluster 4, H4
high mobility group nucleosomal binding domain 4
immunoglobulin (CD79A) binding protein 1
inosine triphosphatase (nucleoside triphosphate pyrophosphatase)
KH domain containing, RNA binding, signal transduction associated 1
KIAA0141
KTI12 homolog, chromatin associated (*S. cerevisiae*)

lactate dehydrogenase B-like 2
lectin, mannose-binding 2
U6 snRNA-associated Sm-like protein LSm2 (snRNP core Sm-like protein Sm-x5)(Small nuclear ribonuclear protein D hom
mitogen-activated protein kinase kinase kinase 6
megakaryocyte-associated tyrosine kinase
matrin 3
multiple coagulation factor deficiency 2
mediator complex subunit 17
mitochondrial ribosomal protein L21
28S ribosomal protein S18b, mitochondrial Precursor (S18mt-b)(MRP-S18-b)(Mrps18-b)(28S ribosomal protein S18-2, mi
mitochondrial ribosomal protein S30
metallothionein 1 pseudogene 2
methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2-like
myotubularin related protein 2
N-acetyltransferase 9 (GCN5-related, putative)
Sialidase-1 Precursor (EC 3.2.1.18)(Lysosomal sialidase)(N-acetyl-alpha-neuraminidase 1)(Acetylneuraminyl hydrolase)(G
nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilon
nuclear distribution gene C homolog (A. nidulans)
OCIA domain containing 1
oligosaccharyltransferase complex subunit
pannexin 1
progesterone receptor membrane component 1
phosphatidylinositol glycan anchor biosynthesis, class V
perilipin 3
peptidase (mitochondrial processing) alpha
phosphoribosyl pyrophosphate amidotransferase
protein phosphatase 1, regulatory (inhibitor) subunit 8
protein phosphatase 2 (formerly 2A), catalytic subunit, beta isoform
protein phosphatase 2 (formerly 2A), regulatory subunit A, alpha isoform
PR domain containing 8
prion protein
phosphatase and tensin homolog
PTK7 protein tyrosine kinase 7
prothymosin, alpha
prothymosin, alpha pseudogene 5
glutamyl-tRNA synthetase
queuine tRNA-ribosyltransferase 1
RAB34, member RAS oncogene family
RAB4A, member RAS oncogene family
RNA binding protein, autoantigenic (hnRNP-associated with lethal yellow homolog (mouse))
RNA binding motif protein, X-linked
regulator of chromosome condensation 2
retinol dehydrogenase 14 (all-trans/9-cis/11-cis)
REX4, RNA exonuclease 4 homolog (S. cerevisiae)
RNA (guanine-9-) methyltransferase domain containing 1
RNase MRP
ring finger protein 114

Putative uncharacterized protein ENSP00000351543 Fragment

ribosomal protein L10 pseudogene 3
ribosomal protein L12 pseudogene 8
ribosomal protein L13a pseudogene 5
ribosomal protein L15
ribosomal protein L30

ribosomal protein L9
ribosomal protein, large, P0
ribosomal protein, large, P2
40S ribosomal protein S18 (Ke-3)(Ke3)
ribosomal protein S28

ribosomal protein S2 pseudogene 1
ribosomal protein S2 pseudogene 4
RRN3 RNA polymerase I transcription factor homolog (*S. cerevisiae*)

ribosomal L1 domain containing 1
short chain dehydrogenase/reductase family 39U, member 1
stress-associated endoplasmic reticulum protein 1
splicing factor, arginine/serine-rich 6
solute carrier family 25 (mitochondrial carrier; citrate transporter), member 1
solute carrier family 25, member 32
solute carrier family 25, member 46
solute carrier family 35, member B2
solute carrier family 3 (activators of dibasic and neutral amino acid transport), member 2
structural maintenance of chromosomes flexible hinge domain containing 1
small nucleolar RNA, H/ACA box 44
sorting nexin 12
sperm associated antigen 7
signal peptidase complex subunit 1 homolog (*S. cerevisiae*)
speckle-type POZ protein
sequestosome 1
signal recognition particle 19kDa
serine/threonine kinase 11 interacting protein
Serine/threonine-protein kinase 19 (Protein RP1)(EC 2.7.11.1)(Protein G11)
TAF7 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 55kDa
transgelin 2
TatD DNase domain containing 1
TGFB-induced factor homeobox 2
translocase of inner mitochondrial membrane 13 homolog (yeast)
transmembrane emp24 protein transport domain containing 3
transmembrane emp24 protein transport domain containing 8
transmembrane emp24 protein transport domain containing 9
transmembrane protein 135
transmembrane protein 170A
transmembrane protein 18
transmembrane protein 33
microRNA 564
transmembrane protein 44
transmembrane protein 66
transmembrane protein 85
tumor necrosis factor receptor superfamily, member 10b
torsin family 3, member A
tumor protein, translationally-controlled 1
TRM1 tRNA methyltransferase 1 homolog (*S. cerevisiae*)
tRNA splicing endonuclease 15 homolog (*S. cerevisiae*)
terminal uridylyl transferase 1, U6 snRNA-specific
tRNA-yW synthesizing protein 3 homolog (*S. cerevisiae*)
ubiquitin-conjugating enzyme E2Q family member 2
ubiquitin specific peptidase 39
Valyl-tRNA synthetase (EC 6.1.1.9)(Valine--tRNA ligase)(ValRS)(Protein G7a)
tryptophanyl tRNA synthetase 2, mitochondrial
WAS protein family homolog 5 pseudogene
WD repeat domain 18
WD repeat domain 74
WD repeat domain 82
WD repeat, sterile alpha motif and U-box domain containing 1
tyrosyl-tRNA synthetase 2, mitochondrial
YTH domain family, member 2

tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta polypeptide
zinc finger CCCH-type containing 15
zinc finger, DHHC-type containing 24
zinc finger, DHHC-type containing 4
zinc finger protein 256
zinc finger protein 263
zinc finger protein 32
zinc finger protein 323
zinc finger protein 330
zinc finger protein 426
zinc finger protein 528
zinc finger protein 706
zinc finger protein 76 (expressed in testis)

Putative uncharacterized protein ENSP00000403255 Fragment

Trinucleotide repeat-containing gene 6C protein

Putative uncharacterized protein ENSP00000381660 Fragment

Putative uncharacterized protein ENSP00000374946

AF4/FMR2 family, member 2

Novel protein similar to contactin associated protein-like 3 (CNTNAP3) Fragment

anoctamin 10

Rho GTPase-activating protein 10-like

adaptor protein, phosphotyrosine interaction, PH domain and leucine zipper containing 2

Rho guanine nucleotide exchange factor (GEF) 5-like

ATPase, class VI, type 11A

ATPase, Na⁺/K⁺ transporting, beta 2 polypeptide
ATPase, H⁺ transporting, lysosomal V0 subunit a1
ATPase, Cu⁺⁺ transporting, alpha polypeptide
BCL2-like 15
bestrophin 3
Probable E3 ubiquitin-protein ligase KIAA0614 (EC 6.3.2.-)
Putative uncharacterized protein C1orf98
carbonic anhydrase III, muscle specific
calcium/calmodulin-dependent protein kinase IV
CD177 molecule
CD200 receptor 1
CD40 ligand
CD46 molecule, complement regulatory protein pseudogene
cyclin-dependent kinase 5, regulatory subunit 1 (p35)
carcinoembryonic antigen-related cell adhesion molecule 22, pseudogene
cyclin M2

echinoderm microtubule associated protein like 5
erythrocyte membrane protein band 4.1 like 4A
family with sequence similarity 125, member B
family with sequence similarity 151, member B
fibulin 5
GRB2-related adaptor protein 2
HEPACAM family member 2
hook homolog 1 (Drosophila)
haptoglobin-related protein
hsa-mir-504
CD101 molecule
integrin-linked kinase
DDB1 and CUL4 associated factor 6
KIAA0922
killer cell immunoglobulin-like receptor, two domains, short cytoplasmic tail, 1
LIM domain binding 1
leucine-rich, glioma inactivated 1
MAP/microtubule affinity-regulating kinase 3
Mediterranean fever
microfibrillar-associated protein 3-like
malignant fibrous histiocytoma amplified sequence 1
motile sperm domain containing 1
N-terminal EF-hand calcium binding protein 1
nudix (nucleoside diphosphate linked moiety X)-type motif 4 pseudogene 1
olfactory receptor, family 10, subfamily G, member 2
olfactory receptor, family 6, subfamily K, member 3
pyruvate dehydrogenase kinase, isozyme 3
phosphatidylinositol glycan anchor biosynthesis, class C
phosphatidylinositol-5-phosphate 4-kinase, type II, alpha
plakophilin 2
protein phosphatase 2, regulatory subunit B', beta isoform
pregnancy specific beta-1-glycoprotein 1
pregnancy specific beta-1-glycoprotein 6
pregnancy specific beta-1-glycoprotein 8
ring finger protein 152

SEC62 homolog (*S. cerevisiae*)
solute carrier family 18 (vesicular monoamine), member 2
solute carrier family 28 (sodium-coupled nucleoside transporter), member 3
solute carrier family 6, member 16
sorting nexin 22
sorbin and SH3 domain containing 1
serine peptidase inhibitor, Kazal type 8 (putative)
T cell-interacting, activating receptor on myeloid cells 1
tet oncogene family member 3
talin 2
U6 spliceosomal RNA
ubiquitin specific peptidase 32
WW domain binding protein 2
Y RNA

abhydrolase domain containing 15

Putative uncharacterized protein FLJ13197

aspartoacylase (aminocyclase) 3
ADAM metallopeptidase domain 17
actin related protein 2/3 complex, subunit 5-like
activating transcription factor 2
BAI1-associated protein 2
bicaudal D homolog 1 (*Drosophila*)
breast cancer metastasis-suppressor 1-like
Uncharacterized protein C14orf179
consortin, connexin sorting protein
calneuron 1
coenzyme Q10 homolog A (*S. cerevisiae*)
cytochrome b-561
cytohesin 2
drebrin 1
dCTP pyrophosphatase 1
DEP domain containing 6
DNA fragmentation factor, 45kDa, alpha polypeptide
dihydropyrimidinase-like 3
dystrobrevin binding protein 1

dysferlin interacting protein 1
exostoses (multiple) 2
fatty acid binding protein 5 (psoriasis-associated)
four and a half LIM domains 1
gamma-glutamyl carboxylase
guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 1
guanine nucleotide binding protein (G protein), beta 5
glucosamine-phosphate N-acetyltransferase 1
guanylate cyclase 1, soluble, alpha 3
HESX homeobox 1
hedgehog acyltransferase
homeobox A10
intercellular adhesion molecule 2
inhibitor of DNA binding 1, dominant negative helix-loop-helix protein
intermediate filament family orphan 2
inositol 1,4,5-triphosphate receptor, type 1
inositol 1,4,5-triphosphate receptor interacting protein-like 2
jagunal homolog 1 (Drosophila)
jerky homolog-like (mouse)
KIAA1826
KIAA1919
kelch-like 13 (Drosophila)
kelch-like 6 (Drosophila)
leucine zipper, down-regulated in cancer 1-like
MAM domain containing 2
microRNA 17
myeloid leukemia factor 1
mutL homolog 3 (E. coli)
metallothionein 1G
metallothionein 1 pseudogene 1
metallothionein 1X
myosin VC
NIMA (never in mitosis gene a)- related kinase 11
neugrin, neurite outgrowth associated
non imprinted in Prader-Willi/Angelman syndrome 1
notchless homolog 1 (Drosophila)
non-metastatic cells 3, protein expressed in
pre-B-cell leukemia homeobox interacting protein 1
phosphodiesterase 7B
phosphofructokinase, platelet
pleckstrin homology domain containing, family A member 5
phosphatidic acid phosphatase type 2A
presenilin 2 (Alzheimer disease 4)
protein tyrosine phosphatase type IVA, member 3
reticulocalbin 1, EF-hand calcium binding domain
ribonuclease H1

Sin3A-associated protein, 18kDa
secretory carrier membrane protein 3
stearoyl-CoA desaturase 5

Sec61 alpha 1 subunit (*S. cerevisiae*)
SET domain and mariner transposase fusion gene
solute carrier family 25 (mitochondrial carrier, brain), member 14
solute carrier family 45, member 3
solute carrier family 9 (sodium/hydrogen exchanger), member 7
serine peptidase inhibitor, Kazal type 2 (acrosin-trypsin inhibitor)
single-stranded DNA binding protein 2
ST3 beta-galactoside alpha-2,3-sialyltransferase 4
TBC1 domain family, member 16
tyrosine kinase with immunoglobulin-like and EGF-like domains 1
TCDD-inducible poly(ADP-ribose) polymerase
transmembrane protein 182
transmembrane protein 206
transmembrane protein 220
tumor necrosis factor (ligand) superfamily, member 9
TNF receptor-associated factor 4
triple functional domain (PTPRF interacting)
tetratricopeptide repeat domain 24
tetratricopeptide repeat domain 9C
ubiquitin specific peptidase 46
ubiquitin specific peptidase 53
WD repeat domain 49
zinc finger and BTB domain containing 8A
zinc finger, matrin type 3
zinc finger protein 195
zinc finger protein 57
zinc finger protein 660
zinc finger protein 792

ATP-binding cassette, sub-family A (ABC1), member 13

Galectin-related protein
Putative uncharacterized protein FP15737
Putative uncharacterized protein ENSP00000372234

Leukotriene-B(4) omega-hydroxylase 2 (EC 1.14.13.30)(Cytochrome P450 4F3)(CYP11B3)(Leukotriene-B(4) 20-monooxygenase)
arachidonate 5-lipoxygenase
adenosine monophosphate deaminase (isoform E)
ankyrin 1, erythrocytic
apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3B
Rho GDP dissociation inhibitor (GDI) beta
ArfGAP with SH3 domain, ankyrin repeat and PH domain 1
UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 5
Protein HIDE1 Precursor
Mast cell-expressed membrane protein 1
carbonic anhydrase I
carbonic anhydrase II
calpastatin
COBW domain containing 6
CD59 molecule, complement regulatory protein
carcinoembryonic antigen-related cell adhesion molecule 1 (biliary glycoprotein)

carcinoembryonic antigen-related cell adhesion molecule 27, pseudogene
carcinoembryonic antigen-related cell adhesion molecule 29, pseudogene
centromere protein A
CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase-like
cytochrome b-245, beta polypeptide
cytoplasmic FMR1 interacting protein 2
DnaJ (Hsp40) homolog, subfamily A, member 4
dysferlin, limb girdle muscular dystrophy 2B (autosomal recessive)
endothelin converting enzyme 1
F-box protein 9
ferrochelatase (protoporphyrin)
FH2 domain containing 1
forkhead box M1
UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 10 (GalNAc-T10)
guanine nucleotide binding protein (G protein), gamma 2
glycophorin B (MNS blood group)
hemoglobin, mu
hemogen
insulin-like growth factor 2 receptor
interleukin 1 receptor, type I
jumonji C domain containing histone demethylase 1 homolog D (*S. cerevisiae*)
potassium large conductance calcium-activated channel, subfamily M, beta member 3-like
Kell blood group, metallo-endopeptidase
KIAA1539
KIAA1715
kinesin family member 13A
lectin, galactoside-binding, soluble, 3
leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 2
low density lipoprotein receptor-related protein 10
membrane bound O-acyltransferase domain containing 2
multiple EGF-like-domains 9
misshapen-like kinase 1 (zebrafish)
antigen identified by monoclonal antibody Ki-67
myeloid cell nuclear differentiation antigen
myosin, heavy chain 10, non-muscle
nuclear factor I/A
nudix (nucleoside diphosphate linked moiety X)-type motif 4
opioid growth factor receptor-like 1
olfactomedin 4
oxidized low density lipoprotein (lectin-like) receptor 1
purinergic receptor P2Y, G-protein coupled, 13
peptidyl arginine deiminase, type IV
protein-L-isoaspartate (D-aspartate) O-methyltransferase
phosphatidylinositol-4-phosphate 5-kinase, type I, beta
peroxiredoxin 2
RNA binding motif protein 38
Rh-associated glycoprotein

retinoid X receptor, alpha
SLAIN motif family, member 1
solute carrier family 14 (urea transporter), member 1 (Kidd blood group)
solute carrier family 44, member 2
sortilin 1

spectrin, alpha, erythrocytic 1 (elliptocytosis 2)
spectrin, beta, erythrocytic
tescalcin
transmembrane protein 56
tocopherol (alpha) transfer protein-like
tubulin, gamma 1
vaccinia related kinase 1
WD repeat and FYVE domain containing 3
YOD1 OTU deubiquinating enzyme 1 homolog (*S. cerevisiae*)

zinc finger protein 487

Zinc finger protein 66

Thioredoxin reductase 3 (EC 1.8.1.9)(Thioredoxin reductase TR2)(Thioredoxin and glutathione reductase)

Putative heat shock protein HSP 90-beta-3 (Heat shock protein 90-beta c)(Heat shock protein 90Bc)

Putative uncharacterized protein FP630
ARP5 actin-related protein 5 homolog (yeast)
activin A receptor, type I

ankyrin repeat domain 28

Uncharacterized protein C11orf57
Uncharacterized protein C12orf45
UPF0431 protein C1orf66
Uncharacterized protein C20orf117
Uncharacterized protein C3orf54
Probable tRNA (uracil-O(2)-)-methyltransferase (EC 2.1.1.n2)
STAT3-interacting protein as a repressor
Uncharacterized protein C9orf93
caspase 7, apoptosis-related cysteine peptidase
CCAAT/enhancer binding protein (C/EBP), gamma
carboxypeptidase X (M14 family), member 1
Crm, cramped-like (*Drosophila*)
cAMP responsive element binding protein 3-like 4
casein kinase 1, epsilon
DEAD (Asp-Glu-Ala-Asp) box polypeptide 27
DNA fragmentation factor, 40kDa, beta polypeptide (caspase-activated DNase)
DnaJ (Hsp40) homolog, subfamily C, member 1
DnaJ (Hsp40) homolog, subfamily C, member 18
aspartyl aminopeptidase
dual specificity phosphatase 10
dual specificity phosphatase 14

E2F transcription factor 6
emopamil binding protein-like
ephrin-A4
family with sequence similarity 108, member B1
family with sequence similarity 60, member A
fascin homolog 1, actin-bundling protein (*Strongylocentrotus purpuratus*)
glutamyl-tRNA(Gln) amidotransferase, subunit C homolog (bacterial)
glutamine-fructose-6-phosphate transaminase 1
guanosine monophosphate reductase 2
hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional p
hippocalcin-like 1
HscB iron-sulfur cluster co-chaperone homolog (*E. coli*)
interleukin 3 receptor, alpha (low affinity)
IMP2 inner mitochondrial membrane peptidase-like (*S. cerevisiae*)
IMP4, U3 small nucleolar ribonucleoprotein, homolog (yeast)
integrin, alpha 5 (fibronectin receptor, alpha polypeptide)
lysine (K)-specific demethylase 4A
KIAA1147
Kruppel-like factor 6
LanC lantibiotic synthetase component C-like 1 (bacterial)
LAG1 homolog, ceramide synthase 6
linker for activation of T cells family, member 2
leucine zipper-EF-hand containing transmembrane protein 1
lectin, mannose-binding 2-like
leucine zipper protein 1
microtubule associated serine/threonine kinase family member 4
molybdenum cofactor synthesis 3
mitochondrial ribosomal protein S27
metallothionein 1A
metallothionein 1B
metallothionein 1D (pseudogene)
NADH dehydrogenase (ubiquinone) Fe-S protein 4, 18kDa (NADH-coenzyme Q reductase)
NmrA-like family domain containing 1
NIN1/RPN12 binding protein 1 homolog (*S. cerevisiae*)
microRNA 1292
nuclear receptor subfamily 1, group H, member 3
NOP2/Sun domain family, member 4
OTU domain containing 6B
propionyl Coenzyme A carboxylase, alpha polypeptide
peroxisomal biogenesis factor 16
phytanoyl-CoA 2-hydroxylase
polo-like kinase 2 (*Drosophila*)
protein O-linked mannose beta1,2-N-acetylglucosaminyltransferase
phosphatidic acid phosphatase type 2 domain containing 1B
protein arginine methyltransferase 1
pituitary tumor-transforming 1 interacting protein
poliovirus receptor-related 2 (herpesvirus entry mediator B)
v-ral simian leukemia viral oncogene homolog A (ras related)
RNA binding motif protein 8A
ring finger protein 220

patched domain containing 3 pseudogene (LOC387647), non-coding RNA

ribosomal protein L10a

ribosomal protein L24 pseudogene 4

ribosomal protein L31

small nucleolar RNA, H/ACA box 7A

ribosomal protein L37a

ribosomal protein S15a

scavenger receptor class B, member 1

schwannomin interacting protein 1

septin 5

sideroflexin 4

SH3 domain containing ring finger 1

solute carrier family 25, member 29

solute carrier family 35, member E2

solute carrier family 35, member F2

solute carrier family 39 (zinc transporter), member 1

solute carrier family 39 (zinc transporter), member 10

solute carrier family 41, member 3

Small nucleolar RNA SNORA73 family

small nuclear ribonucleoprotein polypeptide E

SRY (sex determining region Y)-box 4

transmembrane emp24 protein transport domain containing 1

transmembrane protein 173

TruB pseudouridine (psi) synthase homolog 2 (E. coli)

ubiquitin-fold modifier conjugating enzyme 1

UTP11-like, U3 small nucleolar ribonucleoprotein, (yeast)

voltage-dependent anion channel 2

Williams Beuren syndrome chromosome region 22

WD repeat domain 54

WD repeat domain 5B

WDYHV motif containing 1

WW domain containing oxidoreductase

X-box binding protein 1

tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, gamma polypeptide

zinc finger, DHHC-type containing 23

zinc finger protein 460

zinc finger protein 496

zinc finger protein 565

zinc finger protein 717

zinc finger protein 772

zinc finger protein 852

zinc finger protein 880

ATP-binding cassette, sub-family B (MDR/TAP), member 10

cDNA FLJ39530 fis, clone PUAEN2004400

Putative olfactory receptor 7A2

cDNA FLJ56364

Putative uncharacterized protein ENSP00000380977 Fragment
C-Maf-inducing protein (c-Mip)(Truncated c-Maf inducing protein)(Tc-Mip)

Putative uncharacterized protein ENSP00000300901 Fragment
T-cell receptor alpha chain V region PY14 Precursor

ankyrin repeat domain 22

Rho GTPase activating protein 19

ATPase, Cu⁺⁺ transporting, beta polypeptide

basic helix-loop-helix domain containing, class B, 9

Uncharacterized protein C11orf51

UPF0684 protein C5orf30

Uncharacterized protein C6orf89

coiled-coil domain containing 126

cyclin E1

CD177 molecule pseudogene

cytidine and dCMP deaminase domain containing 1

cell division cycle 27 homolog (*S. cerevisiae*)

carcinoembryonic antigen-related cell adhesion molecule 5

carcinoembryonic antigen-related cell adhesion molecule 32, pseudogene

coronin, actin binding protein, 2A

cytoplasmic polyadenylation element binding protein 4

cathepsin E

E2F transcription factor 4, p107/p130-binding

E2F transcription factor 7

eukaryotic translation initiation factor 4E binding protein 2

ectonucleoside triphosphate diphosphohydrolase 1

excision repair cross-complementing rodent repair deficiency, complementation group 6-like

family with sequence similarity 83, member D
family with sequence similarity 95, member B1
forkhead box J2
GATA binding protein 1 (globin transcription factor 1)
glutamate-cysteine ligase, modifier subunit
growth factor independent 1B transcription repressor
glucocorticoid induced transcript 1
glutaredoxin (thioltransferase) pseudogene 3
G protein-coupled receptor 141

G-2 and S-phase expressed 1
JAZF zinc finger 1
K(lysine) acetyltransferase 2B
kelch repeat and BTB (POZ) domain containing 7
kinesin family member 21B
Kruppel-like factor 3 (basic)
Kruppel-like factor 7 (ubiquitous)
leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 6
methyl-CpG binding domain protein 2
N-ethylmaleimide-sensitive factor attachment protein, alpha
nuclear prelamin A recognition factor
nuclear receptor coactivator 2
nuclear receptor coactivator 6
ninjurin 2
nuclear receptor binding factor 2
olfactory receptor, family 3, subfamily A, member 4
PAX interacting (with transcription-activation domain) protein 1
pyruvate kinase, liver and RBC
pleiomorphic adenoma gene-like 2
pleckstrin homology domain containing, family M (with RUN domain) member 1 pseudogene
proline-serine-threonine phosphatase interacting protein 2
poliovirus receptor-related 1 (herpesvirus entry mediator C)
paxillin
RAB5B, member RAS oncogene family
RAN binding protein 10
REST corepressor 1

ribosomal protein S27a pseudogene 2
Ras suppressor protein 1
Sin3A-associated protein, 130kDa

SEC14-like 2 (*S. cerevisiae*)
SEC14-like 4 (*S. cerevisiae*)
septin 11
solute carrier family 12 (potassium/chloride transporters), member 6
SRY (sex determining region Y)-box 6
staufen, RNA binding protein, homolog 1 (*Drosophila*)
STE20-related kinase adaptor beta
syntaxin 3
t-complex 11 (mouse)-like 2
transcription factor Dp-1
tropomodulin 1
tumor protein p53 inducible protein 11
tropomyosin 1 (alpha)
trafficking protein, kinesin binding 2
TSC22 domain family, member 4
tetraspanin 17
ubiquitin-conjugating enzyme E2 variant 1 pseudogene 2
ubiquitin specific peptidase 50
Wolf-Hirschhorn syndrome candidate 1-like 1

Y RNA

zinc finger, FYVE domain containing 21
zinc finger protein 367

alpha 1,4-galactosyltransferase
polymerase (RNA) II (DNA directed) polypeptide J, 13.3kDa
C-type lectin domain family 16, member A
WNK lysine deficient protein kinase 1
glycogen synthase kinase 3 alpha
ribosomal protein S13
ATP synthase mitochondrial F1 complex assembly factor 1
reticulon 3
PHD finger protein 21A
hepatoma-derived growth factor (high-mobility group protein 1-like)
amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 12
tetraspanin 18
olfactory receptor, family 4, subfamily N, member 4
kringle containing transmembrane protein 1
histone cluster 1, H2bm
adaptor-related protein complex 2, alpha 1 subunit
60S ribosomal protein L41 (HG12)
carboxylesterase 1 (monocyte/macrophage serine esterase 1)

nucleophosmin/nucleoplasmin 3
COX10 homolog, cytochrome c oxidase assembly protein, heme A: farnesyltransferase (yeast)
STARD3 N-terminal like
xylosylprotein beta 1,4-galactosyltransferase, polypeptide 7 (galactosyltransferase I)
protein kinase C, zeta
scavenger receptor class F, member 1
zinc finger protein 671

taspase, threonine aspartase, 1
mitochondrial E3 ubiquitin ligase 1
interleukin 5 receptor, alpha
isocitrate dehydrogenase 3 (NAD+) beta
zinc finger protein 550
ATP5S-like
galactokinase 1
DPH1 homolog (*S. cerevisiae*)
annexin A10
splicing factor, arginine/serine-rich 9
histidyl-tRNA synthetase 2, mitochondrial (putative)
mediator complex subunit 28
cysteine-rich secretory protein LCCL domain containing 1
forty-two-three domain containing 1
zinc finger protein 436
gamma-glutamyltransferase 7
peroxisomal biogenesis factor 11 beta
discs, large homolog 4 (*Drosophila*)
coiled-coil domain containing 115
proline-rich nuclear receptor coactivator 1
COMM domain containing 7
UPF0444 transmembrane protein C12orf23
queuine tRNA-ribosyltransferase domain containing 1
diazepam binding inhibitor (GABA receptor modulator, acyl-Coenzyme A binding protein)
endo/exonuclease (5'-3'), endonuclease G-like
TSR2, 20S rRNA accumulation, homolog (*S. cerevisiae*)
polymerase (RNA) III (DNA directed) polypeptide K, 12.3 kDa
ribosomal protein S6 kinase, 90kDa, polypeptide 4
defects in morphology 1 homolog (*S. cerevisiae*)
tumor protein p53 inducible protein 13
integrin alpha FG-GAP repeat containing 3
polymerase (RNA) III (DNA directed) polypeptide D, 44kDa
metallothionein 1E
heterogeneous nuclear ribonucleoprotein F
zinc finger protein 581
pyruvate dehydrogenase phosphatase catalytic subunit 2
Putative uncharacterized protein LOC100009676
GIPC PDZ domain containing family, member 3
Putative metalloprotease C21orf57 (EC 3.4.24.-)
transmembrane protein 186
TSPY-like 5
zinc finger protein 667
histone cluster 1, H3a
proteasome beta 8 subunit isoform E1 proprotein
Guanine nucleotide-binding protein-like 1 (GTP-binding protein HSR1)
metallothionein 1H
metallothionein 1M
myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, *Drosophila*); translocated to, 11
zinc finger protein 625
HCG1791715Putative uncharacterized protein DKFZp434I0714 Fragment ;
small nucleolar RNA, H/ACA box 17



.18)(DDAHII)(Dimethylargininase-2)(S-phase protein)(Protein G6a)

Protein NICE-3(S863-3)

ialog)(Protein G7b)

tochondrial)(MRP-S18-2)

9 sialidase)

ase 2)(Cytochrome P450-LTB-omega)

rotein), beta subunit

42 TFs

Gene Symbol	Expression	FC.R	Pattern (1163g)	Targets in pattern 1	Targets in pattern 2	Targets in pattern 3
ATF2	up-regulated	1,06	pattern 3	YES		
CBFB	up-regulated	1,06	pattern 1	YES	YES	YES
ETS2	up-regulated	1,11	pattern 1	YES	YES	
NR1H3	up-regulated	1,06	intermUp	YES		
TAF7	up-regulated	1,12	pattern 1	YES		
TGIF2	up-regulated	1,23	pattern 1	YES		
XBP1	up-regulated	1,09	intermUp	YES		YES
CEBPG	up-regulated	1,17	intermUp		YES	YES
GTF2F1	up-regulated	1,09	pattern 1 *			YES
HESX1	up-regulated	1,18	pattern 3		YES	YES
HOXA10	up-regulated	1,09	pattern 3			YES
HOXA3	up-regulated	1,09	pattern 3 *			YES
HOXA7	up-regulated	1,14	pattern 3 *		YES	YES
HOXA9	up-regulated	1,17	pattern 3 *			YES
HOXB2	up-regulated	1,21	pattern 3 *		YES	YES
HOXB3	up-regulated	1,09	pattern 3 *		YES	YES
KDM4A	up-regulated	1,06	intermUp			YES
KLF6	up-regulated	1,13	intermUp			YES
MEIS1	up-regulated	1,1	pattern 3 *			YES
SOX4	up-regulated	1,21	intermUp		YES	YES
CDK2AP1	up-regulated	1,13	pattern 1			
E2F6	up-regulated	1,12	intermUp		YES	
GALK1	up-regulated	1,05	intermUp			
ID1	up-regulated	1,26	pattern 3		YES	
RBM8A	up-regulated	1,06	intermUp			
RRN3	up-regulated	1,1	pattern 1			
GATA1	down-regulated	-1,1	intermDw		YES	YES
GFI1B	down-regulated	-1,15	intermDw		YES	YES
LTF	down-regulated	-1,07	pattern 4 *		YES	
NFIA	down-regulated	-1,19	pattern 4		YES	
RCOR1	down-regulated	-1,13	intermDw		YES	
RXRA	down-regulated	-1,06	pattern 4	YES	YES	YES
FOXJ2	down-regulated	-1,09	intermDw	YES		
KLF3	down-regulated	-1,11	intermDw			
E2F4	down-regulated	-1,05	intermDw			
E2F7	down-regulated	-1,14	intermDw			
KLF7	down-regulated	-1,12	intermDw			YES
SOX6	down-regulated	-1,48	intermDw			
TFDP1	down-regulated	-1,11	intermDw			
FOXM1	down-regulated	-1,09	pattern 4			YES
JAZF1	down-regulated	-1,21	intermDw			YES
YOD1	down-regulated	-1,14	pattern 4			YES

Targets in pattern 4

YES
YES
YES
YES

YES
YES
YES

YES

YES

YES
YES

YES

YES
YES
YES
YES
