alona
automatic cell type annotation
using machine learning

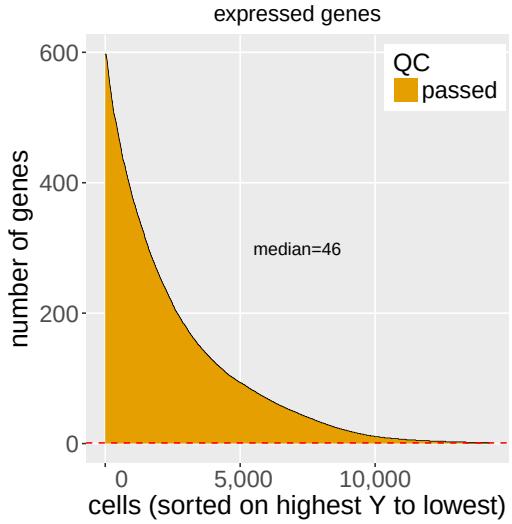
https://alona.PanglaoDB.se

1 Input details

filename	sequencing-B cell.zip
size	7.18 MiB
job id	5cc6bdbd5d76c
time finished	2019-04-29T09:17:47 UTC
description	NA
md5	`0dc716f5d06ceff79f0efd418a6414a7`
time uploaded	Mon Apr 29 2019 17:01:24 GMT+0800 (äÿŋåŻ¡æäĞåĞĘæŮűéŮť)
species	*Homo sapiens*
data type	Normalized counts
QC strategy	min. 1 expressed genes per cell
delimiter	TAB
header	Yes
full length mRNA-seq	Yes
cell cluster statistic	median
remove mitochondrial genes	No
cluster resolution	small

2 Quality filtering

The red line indicates the pre-defined filtering threshold.



The plot normally shown in this box
is not applicable if data are not raw read counts.

2.1 Metrics

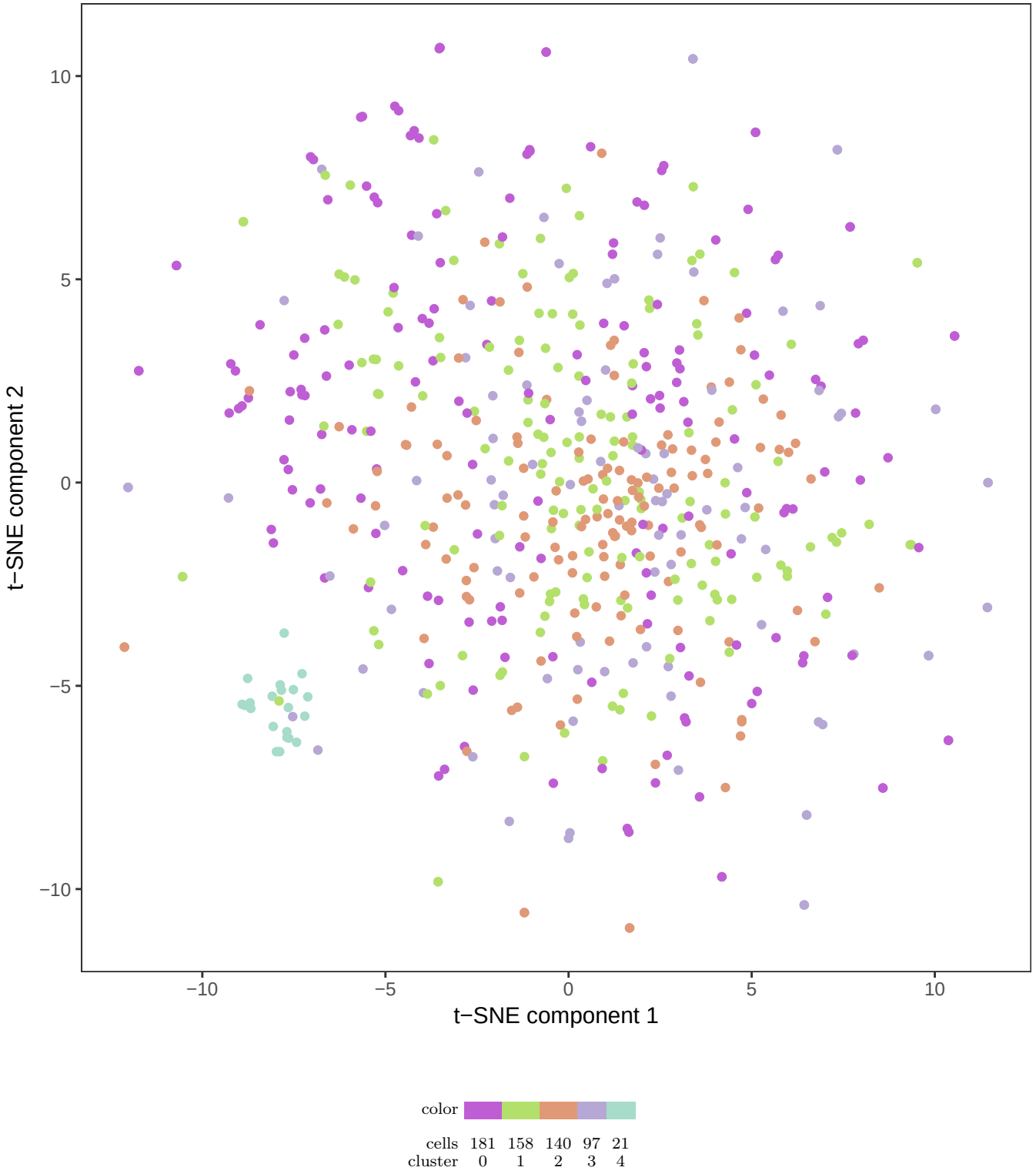
- 597 out of 597 cells were used in the analysis.
- 1 genes could not be mapped to internal gene symbols (unused genes are listed in section 10). This is usually because of a non-standard or non-official gene symbol/alias.
- 11,136 genes were used in the analysis.
- 5 cell cluster(s) were formed.
- 1 cell type(s) were predicted.

3 Top 20 expressed genes

This is a list of the top 20 most expressed genes in the data. Genes were ranked across all clusters.

symbol	description	biotype	median	mad
Cd74	CD74 molecule	protein-coding gene	3.567	0.075
B2m	beta-2-microglobulin	protein-coding gene	3.439	0.100
Rpl41	ribosomal protein L41	protein-coding gene	3.399	0.100
Rps18	ribosomal protein S18	protein-coding gene	3.387	0.114
Rps27	ribosomal protein S27	protein-coding gene	3.382	0.109
Rpl3	ribosomal protein L3	protein-coding gene	3.355	0.100
Rpl19	ribosomal protein L19	protein-coding gene	3.331	0.085
Rps3a1	ribosomal protein S3A1	protein coding gene	3.329	0.093
Actb	actin beta	protein-coding gene	3.325	0.144
Rps4x	ribosomal protein S4 X-linked	protein-coding gene	3.297	0.113
Rps14	ribosomal protein S14	protein-coding gene	3.295	0.115
Rpl7	ribosomal protein L7	protein-coding gene	3.282	0.116
Rps5	ribosomal protein S5	protein-coding gene	3.281	0.123
Rps11	ribosomal protein S11	protein-coding gene	3.270	0.107
Rps25	ribosomal protein S25	protein-coding gene	3.250	0.113
Gm10036	uncharacterized transcript		3.241	0.114
Rps13	ribosomal protein S13	protein-coding gene	3.234	0.129
Cxcr4	C-X-C motif chemokine receptor 4	protein-coding gene	3.223	0.209
Rpl8	ribosomal protein L8	protein-coding gene	3.212	0.131
Rpl4	ribosomal protein L4	protein-coding gene	3.211	0.123

4 t-distributed stochastic neighbor embedding (t-SNE)



5 Cell type predictions

5.1 Machine learning

These results are based on the machine learning classifier. Details of cell to cluster mappings is found in section 9.

cluster[a]	no. cells[b]	% cells	genes[c]	cell type	probability[d]
0	181	30.310	2,660	B cells	0.164
1	158	26.470	2,246	B cells	0.201
2	140	23.450	2,232	B cells	0.201
3	97	16.250	2,311	B cells	0.250
4	21	3.520	2,749	B cells	0.595

[a] Cluster identifier.
[b] Number of cells in the cluster.
[c] For each cell in the cluster, counting the number of genes with > 0 expression and reporting the median.
[d] Model probability reported by the SVM.

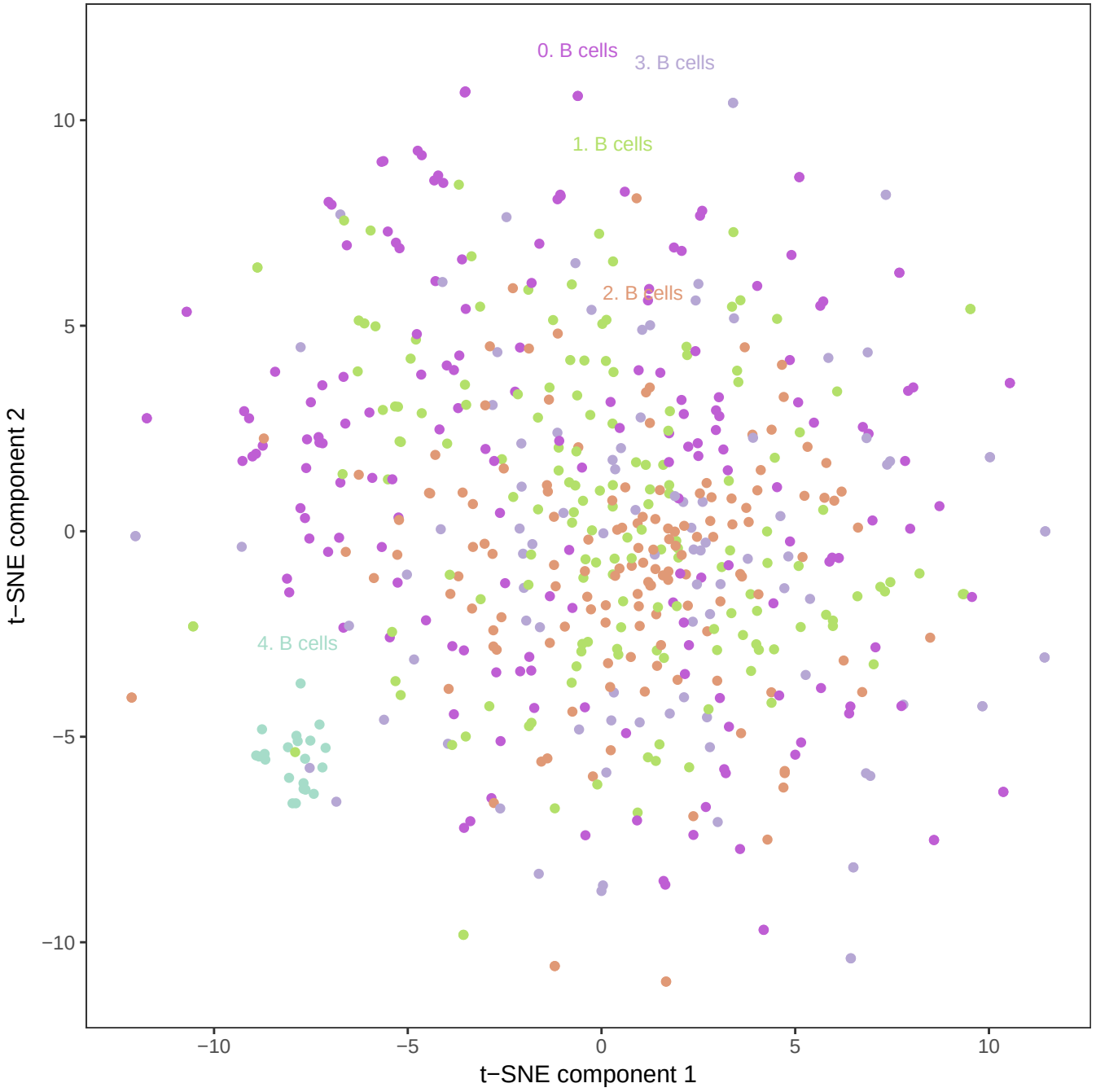
5.2 Hypergeometric test

These results are purely based on marker genes. Green rows indicate significant associations. The following markers were used: `https://panglaodb.se/markers/PanglaoDB_markers_28_Apr_2019.tsv.gz`

cluster[a]	cell type	activity score[b]	p-value[c]	adjusted p-value[d]	significance[e]
0	B cells	37	4.6e-07	8.5e-05	*
1	B cells naive	30	8.6e-04	5.3e-02	*
2	B cells	38	5.6e-08	4.9e-05	*
3	B cells memory	35	1.0e-06	1.5e-04	*
4	B cells	33	2.3e-06	2.9e-04	*

[a] Cluster identifier.
[b] Activity score of expressed marker genes.
[c] P-value from a hypergeometric test.
[d] Adjusted p-value based on the Benjamini-Hochberg procedure.
[e] * significant at FDR<10%.

6 Annotated t-SNE



7 Top 20 expressed genes per cluster

7.1 cluster 0 - B cells (n=181; prob=0.164)

symbol	description	biotype	median
Cd74	CD74 molecule	protein-coding gene	3.546
B2m	beta-2-microglobulin	protein-coding gene	3.424
Rpl41	ribosomal protein L41	protein-coding gene	3.387
Rps27	ribosomal protein S27	protein-coding gene	3.382
Rps18	ribosomal protein S18	protein-coding gene	3.378
Actb	actin beta	protein-coding gene	3.341
Rpl3	ribosomal protein L3	protein-coding gene	3.339
Rpl19	ribosomal protein L19	protein-coding gene	3.321
Rps3a1	ribosomal protein S3A1	protein coding gene	3.319
Rps4x	ribosomal protein S4 X-linked	protein-coding gene	3.290
Rpl7	ribosomal protein L7	protein-coding gene	3.279
Rps5	ribosomal protein S5	protein-coding gene	3.278
Rps14	ribosomal protein S14	protein-coding gene	3.274
Rps11	ribosomal protein S11	protein-coding gene	3.254
Cxcr4	C-X-C motif chemokine receptor 4	protein-coding gene	3.250
Rps25	ribosomal protein S25	protein-coding gene	3.239
Gm10036	uncharacterized transcript		3.238
Rps13	ribosomal protein S13	protein-coding gene	3.225
Rps28	ribosomal protein S28	protein-coding gene	3.220
Rpl4	ribosomal protein L4	protein-coding gene	3.217

Markers: *Cd74*, *Cxcr4*, *Ms4a1*, *Cd79b*, *Cd79a*, *Cd69*, *Cd19*, *Ltb*, *Bank1*, *Ptprc*, *Hvcn1*, *H2-Ob*, *Vpreb3*, *Cd22*, *Bcl11a*, *Cd40*, *Birc3*, *Ccr7*, *Lrmp*, *Pou2af1*, *Blnk*, *Pax5*, *H2-Oa*, *Spn*, *Fam129c*, *Ralgps2*, *Smap2*, *Tnfrsf9*, *Fchsd2*, *Cd72*, *Klhl6*, *Slamf6*, *Fcer2a*

7.2 cluster 1 - B cells (n=158; prob=0.201)

symbol	description	biotype	median
Cd74	CD74 molecule	protein-coding gene	3.579
B2m	beta-2-microglobulin	protein-coding gene	3.448
Rpl41	ribosomal protein L41	protein-coding gene	3.408
Rps18	ribosomal protein S18	protein-coding gene	3.400
Rps27	ribosomal protein S27	protein-coding gene	3.389
Rpl3	ribosomal protein L3	protein-coding gene	3.360
Rpl19	ribosomal protein L19	protein-coding gene	3.337
Actb	actin beta	protein-coding gene	3.331
Rps3a1	ribosomal protein S3A1	protein coding gene	3.330
Rps4x	ribosomal protein S4 X-linked	protein-coding gene	3.316
Rps14	ribosomal protein S14	protein-coding gene	3.312
Rpl7	ribosomal protein L7	protein-coding gene	3.289
Rps5	ribosomal protein S5	protein-coding gene	3.288
Rps11	ribosomal protein S11	protein-coding gene	3.269
Rps25	ribosomal protein S25	protein-coding gene	3.253
Gm10036	uncharacterized transcript		3.249
Rpl10a	ribosomal protein L10a	protein-coding gene	3.230
Rps13	ribosomal protein S13	protein-coding gene	3.228
Rpl23a	ribosomal protein L23a	protein-coding gene	3.224
Rps15a	ribosomal protein S15a	protein-coding gene	3.223

Markers: *Cd74*, *Cxcr4*, *Ms4a1*, *Cd79b*, *Cd79a*, *Ltb*, *Bank1*, *Cd19*, *Cd69*, *Ptprc*, *Hvcn1*, *Cd22*, *Bcl11a*, *Birc3*, *Pou2af1*, *Blnk*, *Spn*, *H2-Oa*, *Pax5*, *Fam129c*, *Tnfrsf9*, *H2-Ob*, *Ralgps2*, *Klhl6*, *Fchsd2*, *Smap2*

7.3 cluster 2 - B cells (n=140; prob=0.201)

symbol	description	biotype	median
Cd74	CD74 molecule	protein-coding gene	3.584
B2m	beta-2-microglobulin	protein-coding gene	3.424
Rpl41	ribosomal protein L41	protein-coding gene	3.421
Rps18	ribosomal protein S18	protein-coding gene	3.389
Rps27	ribosomal protein S27	protein-coding gene	3.384
Rpl3	ribosomal protein L3	protein-coding gene	3.383
Rpl19	ribosomal protein L19	protein-coding gene	3.352
Rps3a1	ribosomal protein S3A1	protein coding gene	3.343
Actb	actin beta	protein-coding gene	3.328
Rps5	ribosomal protein S5	protein-coding gene	3.317
Rps4x	ribosomal protein S4 X-linked	protein-coding gene	3.314
Rps14	ribosomal protein S14	protein-coding gene	3.311
Rpl7	ribosomal protein L7	protein-coding gene	3.292
Rps11	ribosomal protein S11	protein-coding gene	3.290
Rps25	ribosomal protein S25	protein-coding gene	3.268
Rps13	ribosomal protein S13	protein-coding gene	3.266
Cxcr4	C-X-C motif chemokine receptor 4	protein-coding gene	3.262
Gm10036	uncharacterized transcript		3.256
Rpl26	ribosomal protein L26	protein-coding gene	3.250
Rpl10a	ribosomal protein L10a	protein-coding gene	3.238

Markers: *Cd74*, *Cxcr4*, *Ms4a1*, *Cd79b*, *Cd79a*, *Cd69*, *Bank1*, *Cd19*, *Ltb*, *Ptprc*, *Hvcn1*, *H2-Ob*, *Bcl11a*, *Cd22*, *Blnk*, *Birc3*, *Cd40*, *Pax5*, *Pou2af1*, *Spn*, *Fam129c*, *Cd72*, *H2-Oa*, *Ccr7*, *Smap2*, *Tnfrsf9*, *Fchsd2*, *Ralgps2*, *Fcer2a*, *Cr2*, *Klhl6*, *Slamf6*

7.4 cluster 3 - B cells (n=97; prob=0.25)

symbol	description	biotype	median
Cd74	CD74 molecule	protein-coding gene	3.574
B2m	beta-2-microglobulin	protein-coding gene	3.467
Rps27	ribosomal protein S27	protein-coding gene	3.396
Rps18	ribosomal protein S18	protein-coding gene	3.396
Rpl41	ribosomal protein L41	protein-coding gene	3.390
Rps3a1	ribosomal protein S3A1	protein coding gene	3.346
Rpl3	ribosomal protein L3	protein-coding gene	3.342
Rpl19	ribosomal protein L19	protein-coding gene	3.334
Actb	actin beta	protein-coding gene	3.317
Rps14	ribosomal protein S14	protein-coding gene	3.308
Rps4x	ribosomal protein S4 X-linked	protein-coding gene	3.296
Rpl7	ribosomal protein L7	protein-coding gene	3.286
Rps11	ribosomal protein S11	protein-coding gene	3.283
Rps25	ribosomal protein S25	protein-coding gene	3.258
Rps5	ribosomal protein S5	protein-coding gene	3.246
Rps13	ribosomal protein S13	protein-coding gene	3.239
Gm10036	uncharacterized transcript		3.234
Rpl4	ribosomal protein L4	protein-coding gene	3.229
Rpl26	ribosomal protein L26	protein-coding gene	3.226
Rps15a	ribosomal protein S15a	protein-coding gene	3.221

Markers: *Cd74*, *Cxcr4*, *Ms4a1*, *Cd79b*, *Cd79a*, *Bank1*, *Cd69*, *Ptprc*, *Ltb*, *Cd19*, *Vpreb3*, *Hvcn1*, *Cd22*, *Bcl11a*, *Birc3*, *Pou2af1*, *Smap2*, *Pax5*, *Spn*, *Fam129c*, *Ralgps2*, *Blnk*, *Tnfrsf9*, *H2-Oa*, *Trp53inp1*, *Fchsd2*, *Slamf6*, *Klhl6*

7.5 cluster 4 - B cells (n=21; prob=0.595)

symbol	description	biotype	median
B2m	beta-2-microglobulin	protein-coding gene	3.528
Ssr4	signal sequence receptor subunit 4	protein-coding gene	3.431
Mzb1	marginal zone B and B1 cell specific protein	protein-coding gene	3.373
Rpl41	ribosomal protein L41	protein-coding gene	3.293
Cd74	CD74 molecule	protein-coding gene	3.290
Rps18	ribosomal protein S18	protein-coding gene	3.214
Herpud1	homocysteine inducible ER protein with ubiquitin like domain 1	protein-coding gene	3.206
Ubc	ubiquitin C	protein-coding gene	3.197
Xbp1	X-box binding protein 1	protein-coding gene	3.190
Rps4x	ribosomal protein S4 X-linked	protein-coding gene	3.185
Rpl3	ribosomal protein L3	protein-coding gene	3.171
Ppib	peptidylprolyl isomerase B	protein-coding gene	3.164
Rps5	ribosomal protein S5	protein-coding gene	3.151
Sec11c	SEC11 homolog C, signal peptidase complex subunit	protein-coding gene	3.137
Fkbp11	FK506 binding protein 11	protein-coding gene	3.134
Rpl8	ribosomal protein L8	protein-coding gene	3.133
Rplp0	ribosomal protein lateral stalk subunit P0	protein-coding gene	3.128
Hsp90b1	heat shock protein 90 beta family member 1	protein-coding gene	3.124
Rps14	ribosomal protein S14	protein-coding gene	3.123
Rps3a1	ribosomal protein S3A1	protein coding gene	3.103

Markers: *Mzb1, Cd74, Fkbp11, Derl3, Cd79a, Cxcr4, Creld2, Cd38, Sec61a1, Eaf2, Pou2af1, Tnfrsf17, Sdc1, Cd79b, Txndc11, Blnk, Edem2, Trp53inp1, Dok3, Edem1, Cd27, Birc3, Ptprc, Spn, Ralgps2, Fchsd2, Klhl6, Il21r, Tnfrsf9, Slamf6, H2-Oa*

8 Appendix - Top 10 cell type predictions

8.1 cluster 0

cell type	probability
B cells	0.164
T memory cells	0.089
T cells	0.083
Unknown	0.056
Dendritic cells	0.036
Neutrophils	0.027
Macrophages	0.026
Acinar cells	0.023
NK cells	0.018
Germ cells	0.016

8.2 cluster 1

cell type	probability
B cells	0.201
Unknown	0.069
T cells	0.065
T memory cells	0.061
Acinar cells	0.028
Macrophages	0.026
Neutrophils	0.026
Dendritic cells	0.022
NK cells	0.021
Clara cells	0.019

8.3 cluster 2

cell type	probability
B cells	0.201
T cells	0.087
T memory cells	0.064
Unknown	0.059
Macrophages	0.027
Acinar cells	0.026
Neutrophils	0.025
NK cells	0.021
Dendritic cells	0.021
Clara cells	0.017

8.4 cluster 3

cell type	probability
B cells	0.250
T cells	0.076
Unknown	0.058
T memory cells	0.054
Acinar cells	0.026
Neutrophils	0.025
Macrophages	0.025
Dendritic cells	0.024
Clara cells	0.018
NK cells	0.018

8.5 cluster 4

cell type	probability
B cells	0.595
T memory cells	0.021
Unknown	0.020
Neutrophils	0.015
Macrophages	0.014
T cells	0.013
Platelets	0.011
Germ cells	0.010
Enteroendocrine cells	0.010
Neurons	0.010

9 Appendix - cell to cluster assignments

1. cluster cell
2. 0 cy60_1_cd_45_pos_3_A...
3. 0 cy60_1_cd_45_pos_3_A...
4. 0 cy60_1_cd_45_pos_3_E...
5. 0 cy60_1_cd_45_pos_3_E...
6. 0 cy60_1_cd_45_pos_3_E...
7. 0 cy60_1_cd_45_pos_3_E...
8. 0 cy60_1_cd_45_pos_3_E...
9. 0 cy60_1_cd_45_pos_3_F...
10. 0 cy60_1_cd_45_pos_3_F...
11. 0 cy60_1_cd_45_pos_3_H...
12. 0 cy60_1_cd_45_pos_4_A...
13. 0 cy60_1_cd_45_pos_4_A...
14. 0 cy60_1_cd_45_pos_4_A...
15. 0 cy60_1_cd_45_pos_4_C...
16. 0 cy60_1_cd_45_pos_4_E...
17. 0 cy60_1_cd_45_pos_4_G...
18. 0 cy60_1_cd_45_pos_4_H...
19. 0 cy60_1_cd_45_pos_4_H...
20. 0 cy60_1_cd_45_pos_HC_...
21. 0 cy60_1_cd_45_pos_HC_...
22. 0 cy60_1_cd_45_pos_HC_...
23. 0 cy60_1_cd_45_pos_HC_...
24. 0 cy60_1_cd_45_pos_HC_...
25. 0 cy60_1_cd_45_pos_HC_...
26. 0 cy60_1_cd_45_pos_HC_...
27. 0 cy60_1_cd_45_pos_HC_...
28. 0 cy60_1_cd_45_pos_HC_...
29. 0 cy60_1_cd_45_pos_HC_...
30. 0 cy60_1_cd_45_pos_HC_...
31. 0 CY65_NEG_E_AGAACATT_...
32. 0 CY65_NEG_F_AGAACATT_...
33. 0 CY65_POS_F_ATCCGACA_...
34. 0 CY65_POS_G_CAAGGCGA_...
35. 0 Cy67-CD45pos-S2-A10_...
36. 0 Cy67-CD45pos-S2-C11_...
37. 0 Cy67-CD45pos-S2-C2_S...
38. 0 Cy67-CD45pos-S2-D2_S...
39. 0 Cy67-CD45pos-S2-D7_S...
40. 0 Cy67-CD45pos-S2-E6_S...
41. 0 Cy67-CD45pos-S2-F3_S...
42. 0 Cy67-CD45pos-S2-G10_...
43. 0 Cy67-CD45pos-S2-G12_...
44. 0 Cy67-CD45pos-S2-H11_...
45. 0 Cy72_CD45_F06_S738_c...
46. 0 Cy72_CD45_G11_S755_c...
47. 0 cy72-CD45-pos-A03-S8...
48. 0 cy72-CD45-pos-A11-S8...
49. 0 cy72-CD45-pos-B06-S8...
50. 0 cy72-CD45-pos-C10-S8...
51. 0 cy72-CD45-pos-D02-S9...
52. 0 cy72-CD45-pos-E02-S9...
53. 0 cy72-CD45-pos-F08-S9...
54. 0 cy72-CD45-pos-G01-S9...
55. 0 cy72-CD45-pos-G04-S9...
56. 0 cy72-CD45-pos-G09-S9...
57. 0 cy74-CD45-pos-A08-S6...
58. 0 cy74-CD45-pos-C12-S7...
59. 0 cy74-CD45-pos-G12-S7...
60. 0 cy79-p1-CD45-pos-PD1...
61. 0 cy79-p1-CD45-pos-PD1...
62. 0 cy79-p1-CD45-pos-PD1...
63. 0 cy79-p1-CD45-pos-PD1...
64. 0 cy79-p1-CD45-pos-PD1...
65. 0 cy79-p1-CD45-pos-PD1...
66. 0 cy79-p1-CD45-pos-PD1...
67. 0 cy79-p1-CD45-pos-PD1...
68. 0 cy79-p1-CD45-pos-PD1...
69. 0 cy79-p1-CD45-pos-PD1...
70. 0 cy79-p1-CD45-pos-PD1...
71. 0 cy79-p1-CD45-pos-PD1...
72. 0 cy79-p1-CD45-pos-PD1...
73. 0 cy79-p1-CD45-pos-PD1...
74. 0 cy79-p1-CD45-pos-PD1...
75. 0 cy79-p1-CD45-pos-PD1...
76. 0 cy79-p1-CD45-pos-PD1...
77. 0 cy79-p1-CD45-pos-PD1...
78. 0 cy79-p1-CD45-pos-PD1...
79. 0 cy79-p1-CD45-pos-PD1...
80. 0 cy79-p1-CD45-pos-PD1...
81. 0 cy79-p1-CD45-pos-PD1...
82. 0 cy79-p1-CD45-pos-PD1...
83. 0 cy79-p1-CD45-pos-PD1...
84. 0 cy79-p3-CD45-pos-PD1...
85. 0 cy79-p3-CD45-pos-PD1...
86. 0 cy79-p3-CD45-pos-PD1...
87. 0 cy79-p3-CD45-pos-PD1...
88. 0 cy79-p3-CD45-pos-PD1...
89. 0 cy79-p3-CD45-pos-PD1...
90. 0 cy79-p3-CD45-pos-PD1...
91. 0 cy79-p3-CD45-pos-PD1...
92. 0 cy79-p3-CD45-pos-PD1...
93. 0 cy79-p3-CD45-pos-PD1...
94. 0 cy79-p3-CD45-pos-PD1...
95. 0 cy79-p4-CD45-neg-PDL...
96. 0 cy79-p4-CD45-pos-PD1...
97. 0 cy79-p4-CD45-pos-PD1...
98. 0 cy80-CD45-neg-E01-S4...
99. 0 cy80-CD45-neg-F11-S4...
100. 0 cy80-Cd45-pos-Pd1-ne...
101. 0 cy80-Cd45-pos-Pd1-ne...
102. 0 cy80-Cd45-pos-Pd1-ne...
103. 0 cy80-Cd45-pos-Pd1-ne...
104. 0 cy80-Cd45-pos-Pd1-ne...
105. 0 cy80-Cd45-pos-Pd1-ne...
106. 0 cy80-Cd45-pos-Pd1-ne...
107. 0 cy80-Cd45-pos-Pd1-ne...
108. 0 cy80-Cd45-pos-Pd1-ne...
109. 0 cy80-Cd45-pos-Pd1-ne...
110. 0 cy80-Cd45-pos-PD1-po...
111. 0 cy80-CD45-pos-PD1-po...
112. 0 cy80-CD45-pos-PD1-po...
113. 0 cy80-Cd45-pos-PD1-po...
114. 0 cy80-Cd45-pos-PD1-po...
115. 0 cy80-CD45-pos-PD1-po...
116. 0 cy80-CD45-pos-PD1-po...
117. 0 cy80-Cd45-pos-PD1-po...
118. 0 Cy81_FNA_CD45_G11_S2...
119. 0 cy84_Primary_CD45_po...
120. 0 cy84_Primary_CD45_po...
121. 0 cy84_Primary_CD45_po...
122. 0 cy84_Primary_CD45_po...
123. 0 cy84_Primary_CD45_po...
124. 0 cy84_Primary_CD45_po...
125. 0 cy84_Primary_CD45_po...
126. 0 cy84_Primary_CD45_po...
127. 0 cy84-Met-CD45-pos-A0...
128. 0 cy88_cd45pos_5_B05_S...
129. 0 CY88CD45_150813_C07_...
130. 0 CY88CD45_150813_D09_...
131. 0 CY88CD45_150813_E05_...
132. 0 CY88CD45POS_2_B09_S4...
133. 0 CY88CD45POS_7_E03_S2...
134. 0 CY88CD45POS_7_F02_S2...
135. 0 CY89A_CD45_POS_10_A0...
136. 0 CY89A_CD45_POS_10_B0...
137. 0 CY89A_CD45_POS_4_B09...
138. 0 CY89A_CD45_POS_4_C09...
139. 0 CY89A_CD45_POS_4_E03...
140. 0 CY89A_CD45_POS_4_E05...
141. 0 CY89A_CD45_POS_4_E10...
142. 0 CY89A_CD45_POS_4_F07...
143. 0 CY89A_CD45_POS_4_G10...
144. 0 CY89A_CD45_POS_6_A09...
145. 0 CY89A_CD45_POS_6_E01...
146. 0 CY89A_CD45_POS_6_G12...
147. 0 CY89A_CD45_POS_6_H05...
148. 0 CY89A_Core_15_A03_S3...
149. 0 CY89A_Core_15_A04_S4...
150. 0 CY89A_Core_15_D07_S4...
151. 0 CY89A_Core_15_H02_S8...
152. 0 CY89COREQ1_C01_S313_...
153. 0 CY89COREQ1_E06_S342_...
154. 0 CY89FNA_G03_S267_com...
155. 0 CY94_CD45NEG_CD90POS...
156. 0 CY94_CD45NEG_CD90POS...
157. 0 cy94_cd45neg_cd90pos...
158. 0 cy94_cd45neg_cd90pos...
159. 0 cy94_cd45neg_cd90pos...
160. 0 cy94_cd45pos_4_C06_S...
161. 0 cy94_cd45pos_4_D08_S...
162. 0 cy94_cd45pos_4_G03_S...
163. 0 cy94_cd45pos_4_G08_S...
164. 0 cy94_cd45pos_4_H05_S...
165. 0 cy94_cd45pos_A07_S10...
166. 0 cy94_cd45pos_B10_S11...
167. 0 cy94_cd45pos_C09_S12...
168. 0 cy94_cd45pos_C11_S13...
169. 0 cy94_cd45pos_D07_S13...
170. 0 cy94_cd45pos_D11_S14...
171. 0 cy94_cd45pos_F03_S15...
172. 0 cy94_cd45pos_F05_S16...
173. 0 cy94_cd45pos_F11_S16...
174. 0 cy94_cd45pos_G05_S17...
175. 0 cy94_cd45pos_H04_S18...
176. 0 CY94CD45POS_1_B06_S1...
177. 0 CY94CD45POS_1_C05_S1...
178. 0 CY94CD45POS_1_E02_S1...
179. 0 CY94CD45POS_1_F07_S1...
180. 0 CY94CD45POS_1_F10_S1...
181. 0 CY94CD45POS_1_G12_S1...
182. 0 CY94CD45POS_1_H05_S1...
183. 1 cy58-1-CD45-pos-C05-...
184. 1 cy60_1_cd_45_pos_3_C...
185. 1 cy60_1_cd_45_pos_3_C...
186. 1 cy60_1_cd_45_pos_3_D...
187. 1 cy60_1_cd_45_pos_3_E...
188. 1 cy60_1_cd_45_pos_3_F...
189. 1 cy60_1_cd_45_pos_3_G...
190. 1 cy60_1_cd_45_pos_3_G...
191. 1 cy60_1_cd_45_pos_3_G...
192. 1 cy60_1_cd_45_pos_3_H...
193. 1 cy60_1_cd_45_pos_3_H...
194. 1 cy60_1_cd_45_pos_4_A...
195. 1 cy60_1_cd_45_pos_4_D...
196. 1 cy60_1_cd_45_pos_4_D...
197. 1 cy60_1_cd_45_pos_4_G...
198. 1 cy60_1_cd_45_pos_HC_...
199. 1 cy60_1_cd_45_pos_HC_...
200. 1 cy60_1_cd_45_pos_HC_...
201. 1 cy60_1_cd_45_pos_HC_...
202. 1 cy60_1_cd_45_pos_HC_...
203. 1 cy60_1_cd_45_pos_HC_...
204. 1 cy60_1_cd_45_pos_HC_...
205. 1 cy60_1_cd_45_pos_HC_...
206. 1 cy60_1_cd_45_pos_HC_...
207. 1 cy60_1_cd_45_pos_HC_...
208. 1 cy60_1_cd_45_pos_HC_...
209. 1 cy60_1_cd_45_pos_HC_...
210. 1 cy60_1_cd_45_pos_HC_...
211. 1 cy60_1_cd_45_pos_HC_...
212. 1 cy60_1_cd_45_pos_HC_...
213. 1 cy60_1_cd_45_pos_HC_...
214. 1 cy60_1_cd_45_pos_HC_...
215. 1 cy60_1_cd_45_pos_HC_...
216. 1 cy60_1_cd_45_pos_HC_...
217. 1 cy60_1_cd_45_pos_HC_...
218. 1 cy60_1_cd_45_pos_HC_...
219. 1 cy60_1_cd_45_pos_HC_...

220. 1 cy60_1_cd_45_pos_HC_...
221. 1 cy60_1_cd_45_pos_HC_...
222. 1 cy60_1_cd_45_pos_HC_...
223. 1 cy60_1_cd_45_pos_HC_...
224. 1 cy60_1_cd_45_pos_HC_...
225. 1 CY65_NEG_E_AGAACATT_...
226. 1 Cy67-CD45pos-S2-B6_S...
227. 1 Cy67-CD45pos-S2-C12_...
228. 1 Cy67-CD45pos-S2-G2_S...
229. 1 Cy67-CD45pos-S2-G7_S...
230. 1 Cy67-CD45pos-S2-H10_...
231. 1 Cy72_CD45_A04_S676_c...
232. 1 Cy72_CD45_B09_S693_c...
233. 1 Cy72_CD45_C03_S699_c...
234. 1 Cy72_CD45_C06_S702_c...
235. 1 Cy72_CD45_D02_S710_c...
236. 1 Cy72_CD45_D03_S711_c...
237. 1 Cy72_CD45_G03_S747_c...
238. 1 Cy72_CD45_G08_S752_c...
239. 1 Cy72_CD45_H02_S758_c...
240. 1 cy72-CD45-pos-A02-S8...
241. 1 cy72-CD45-pos-B01-S8...
242. 1 cy72-CD45-pos-C05-S8...
243. 1 cy72-CD45-pos-D04-S9...
244. 1 cy72-CD45-pos-E10-S9...
245. 1 cy72-CD45-pos-F02-S9...
246. 1 cy72-CD45-pos-H04-S9...
247. 1 Cy74_CD45_C03_S411_c...
248. 1 Cy74_CD45_F10_S454_c...
249. 1 cy78-CD45-neg-2-A08-...
250. 1 cy79-p1-CD45-pos-PD1...
251. 1 cy79-p1-CD45-pos-PD1...
252. 1 cy79-p1-CD45-pos-PD1...
253. 1 cy79-p1-CD45-pos-PD1...
254. 1 cy79-p1-CD45-pos-PD1...
255. 1 cy79-p3-CD45-pos-PD1...
256. 1 cy79-p3-CD45-pos-PD1...
257. 1 cy79-p3-CD45-pos-PD1...
258. 1 cy79-p3-CD45-pos-PD1...
259. 1 cy79-p3-CD45-pos-PD1...
260. 1 cy79-p3-CD45-pos-PD1...
261. 1 cy79-p4-CD45-pos-PD1...
262. 1 cy80-CD45-neg-B04-S4...
263. 1 cy80-CD45-neg-D02-S4...
264. 1 cy80-Cd45-pos-Pd1-ne...
265. 1 cy80-Cd45-pos-Pd1-ne...
266. 1 cy80-Cd45-pos-Pd1-ne...
267. 1 cy80-Cd45-pos-Pd1-ne...
268. 1 cy80-Cd45-pos-Pd1-ne...
269. 1 cy80-Cd45-pos-Pd1-ne...
270. 1 cy80-Cd45-pos-Pd1-ne...
271. 1 cy80-Cd45-pos-Pd1-ne...
272. 1 cy80-Cd45-pos-Pd1-ne...
273. 1 cy80-Cd45-pos-Pd1-ne...
274. 1 cy80-Cd45-pos-Pd1-ne...
275. 1 cy80-Cd45-pos-PD1-po...
276. 1 cy80-Cd45-pos-PD1-po...
277. 1 Cy81_FNA_CD45_F12_S2...
278. 1 Cy81_FNA_CD45_H05_S2...
279. 1 cy82-CD45-pos-1-F01-...
280. 1 cy84_Primary_CD45_po...
281. 1 cy84_Primary_CD45_po...
282. 1 cy84_Primary_CD45_po...
283. 1 cy84_Primary_CD45_po...
284. 1 cy88_cd_45_pos_B11_S...
285. 1 cy88_cd_45_pos_F06_S...
286. 1 cy88_cd45pos_5_D02_S...
287. 1 cy88_cd45pos_5_D03_S...
288. 1 CY88CD45_150813_B11_...
289. 1 CY88CD45POS_7_C03_S2...
290. 1 CY89A_CD45_POS_10_B1...
291. 1 CY89A_CD45_POS_10_E1...
292. 1 CY89A_CD45_POS_4_A03...
293. 1 CY89A_CD45_POS_4_C11...
294. 1 CY89A_CD45_POS_4_E08...
295. 1 CY89A_CD45_POS_4_G05...
296. 1 CY89A_CD45_POS_4_H06...
297. 1 CY89A_CD45_POS_6_A02...
298. 1 CY89A_CD45_POS_6_A10...
299. 1 CY89A_CD45_POS_6_C12...
300. 1 CY89A_CD45_POS_6_D08...
301. 1 CY89A_CD45_POS_6_G01...
302. 1 CY89A_CD45_POS_6_G07...
303. 1 CY89A_Core_15_A05_S5...
304. 1 CY89A_Core_15_A09_S9...
305. 1 CY89A_Core_15_B01_S1...
306. 1 CY89A_Core_15_C04_S2...
307. 1 CY89A_Core_15_C12_S3...
308. 1 CY89A_Core_15_D04_S4...
309. 1 CY89A_Core_15_D06_S4...
310. 1 CY89A_Core_15_D11_S4...
311. 1 CY89A_Core_15_E04_S5...
312. 1 CY89A_Core_15_F05_S6...
313. 1 CY89COREQ1_B10_S310_...
314. 1 CY89COREQ1_C08_S320_...
315. 1 CY89COREQ1_E03_S339_...
316. 1 CY89COREQ1_E07_S343_...
317. 1 CY89COREQ1_G06_S366_...
318. 1 CY89COREQ1_G10_S370_...
319. 1 CY89COREQ1_G11_S371_...
320. 1 CY89COREQ1_H02_S374_...
321. 1 CY89FNA_C06_S222_com...
322. 1 CY89FNA_E07_S247_com...
323. 1 CY94_CD45NEG_CD90POS...
324. 1 cy94_cd45neg_cd90pos...
325. 1 cy94_cd45neg_cd90pos...
326. 1 cy94_cd45neg_cd90pos...
327. 1 cy94_cd45pos_4_B04_S...
328. 1 cy94_cd45pos_4_B10_S...
329. 1 cy94_cd45pos_4_D12_S...
330. 1 cy94_cd45pos_4_E09_S...
331. 1 cy94_cd45pos_B01_S10...
332. 1 cy94_cd45pos_B02_S11...
333. 1 CY94CD45POS_1_C06_S1...
334. 1 CY94CD45POS_1_D03_S1...
335. 1 CY94CD45POS_1_E08_S1...
336. 1 CY94CD45POS_1_F08_S1...
337. 1 CY94CD45POS_1_F11_S1...
338. 1 CY94CD45POS_1_G08_S1...
339. 1 CY94CD45POS_1_G10_S1...
340. 1 CY94CD45POS_1_H03_S1...
341. 2 cy60_1_cd_45_pos_3_A...
342. 2 cy60_1_cd_45_pos_3_A...
343. 2 cy60_1_cd_45_pos_3_B...
344. 2 cy60_1_cd_45_pos_3_D...
345. 2 cy60_1_cd_45_pos_3_E...
346. 2 cy60_1_cd_45_pos_3_F...
347. 2 cy60_1_cd_45_pos_4_A...
348. 2 cy60_1_cd_45_pos_4_E...
349. 2 cy60_1_cd_45_pos_4_G...
350. 2 cy60_1_cd_45_pos_HC_...
351. 2 cy60_1_cd_45_pos_HC_...
352. 2 cy60_1_cd_45_pos_HC_...
353. 2 cy60_1_cd_45_pos_HC_...
354. 2 cy60_1_cd_45_pos_HC_...
355. 2 cy60_1_cd_45_pos_HC_...
356. 2 Cy67-CD45pos-S2-F2_S...
357. 2 Cy67-CD45pos-S2-F6_S...
358. 2 Cy72_CD45_A05_S677_c...
359. 2 Cy72_CD45_F10_S742_c...
360. 2 Cy72_CD45_H05_S761_c...
361. 2 cy72-CD45-pos-G07-S9...
362. 2 Cy74_CD45_B02_S398_c...
363. 2 Cy74_CD45_B08_S404_c...
364. 2 Cy74_CD45_D08_S428_c...
365. 2 Cy74_CD45_H07_S475_c...
366. 2 cy74-CD45-pos-D03-S7...
367. 2 cy74-CD45-pos-E07-S7...
368. 2 cy74-CD45-pos-F02-S7...
369. 2 cy79-p1-CD45-pos-PD1...
370. 2 cy79-p1-CD45-pos-PD1...
371. 2 cy79-p1-CD45-pos-PD1...
372. 2 cy79-p1-CD45-pos-PD1...
373. 2 cy79-p1-CD45-pos-PD1...
374. 2 cy79-p1-CD45-pos-PD1...
375. 2 cy79-p1-CD45-pos-PD1...
376. 2 cy79-p1-CD45-pos-PD1...
377. 2 cy79-p1-CD45-pos-PD1...
378. 2 cy79-p1-CD45-pos-PD1...
379. 2 cy79-p1-CD45-pos-PD1...
380. 2 cy79-p1-CD45-pos-PD1...
381. 2 cy79-p3-CD45-pos-PD1...
382. 2 cy79-p3-CD45-pos-PD1...
383. 2 cy79-p3-CD45-pos-PD1...
384. 2 cy79-p3-CD45-pos-PD1...
385. 2 cy79-p3-CD45-pos-PD1...
386. 2 cy79-p3-CD45-pos-PD1...
387. 2 cy79-p3-CD45-pos-PD1...
388. 2 cy79-p3-CD45-pos-PD1...
389. 2 cy79-p3-CD45-pos-PD1...
390. 2 cy79-p3-CD45-pos-PD1...
391. 2 cy79-p3-CD45-pos-PD1...
392. 2 cy79-p3-CD45-pos-PD1...
393. 2 cy79-p3-CD45-pos-PD1...
394. 2 cy79-p3-CD45-pos-PD1...
395. 2 cy79-p3-CD45-pos-PD1...
396. 2 cy79-p5-CD45-pos-PD1...
397. 2 cy80-CD45-neg-C10-S8...
398. 2 cy80-CD45-neg-H01-S4...
399. 2 cy80-Cd45-pos-Pd1-ne...
400. 2 cy80-Cd45-pos-Pd1-ne...
401. 2 cy80-Cd45-pos-Pd1-ne...
402. 2 cy80-Cd45-pos-Pd1-ne...
403. 2 cy80-Cd45-pos-Pd1-ne...
404. 2 cy80-Cd45-pos-Pd1-ne...
405. 2 cy80-Cd45-pos-Pd1-ne...
406. 2 cy84_Primary_CD45_po...
407. 2 cy84_Primary_CD45_po...
408. 2 cy84_Primary_CD45_po...
409. 2 cy84-Met-CD45-pos-H0...
410. 2 CY88CD45POS_2_G07_S4...
411. 2 CY88CD45POS_7_G03_S2...
412. 2 CY89A_CD45_POS_10_A1...
413. 2 CY89A_CD45_POS_4_A11...
414. 2 CY89A_CD45_POS_4_B02...
415. 2 CY89A_CD45_POS_4_B05...
416. 2 CY89A_CD45_POS_4_B11...
417. 2 CY89A_CD45_POS_4_C12...
418. 2 CY89A_CD45_POS_4_F01...
419. 2 CY89A_CD45_POS_4_F06...
420. 2 CY89A_CD45_POS_4_F10...
421. 2 CY89A_CD45_POS_4_G09...
422. 2 CY89A_CD45_POS_6_A06...
423. 2 CY89A_CD45_POS_6_A11...
424. 2 CY89A_CD45_POS_6_B05...
425. 2 CY89A_CD45_POS_6_B07...
426. 2 CY89A_CD45_POS_6_B09...
427. 2 CY89A_CD45_POS_6_C04...
428. 2 CY89A_CD45_POS_6_D07...
429. 2 CY89A_CD45_POS_6_F05...
430. 2 CY89A_CD45_POS_6_G08...
431. 2 CY89A_CD45_POS_6_H09...
432. 2 CY89A_Core_15_A10_S1...
433. 2 CY89A_Core_15_B09_S2...
434. 2 CY89A_Core_15_C03_S2...
435. 2 CY89A_Core_15_F04_S6...
436. 2 CY89A_Core_15_G02_S7...
437. 2 CY89A_Core_15_G04_S7...
438. 2 CY89COREQ1_B08_S308_...
439. 2 CY89COREQ1_C02_S314_...
440. 2 CY89COREQ1_C07_S319_...
441. 2 CY89COREQ1_C12_S324_...
442. 2 CY89COREQ1_E05_S341_...
443. 2 CY89COREQ1_E11_S347_...
444. 2 CY89COREQ1_F05_S353_...
445. 2 CY89COREQ1_G07_S367_...
446. 2 CY89COREQ1_G09_S369_...
447. 2 CY89COREQ1_H03_S375_...
448. 2 CY89COREQ1_H10_S382_...
449. 2 CY89FNA_A10_S202_com...
450. 2 CY89FNA_C09_S225_com...
451. 2 CY89FNA_E08_S248_com...
452. 2 CY89FNA_F03_S255_com...
453. 2 CY94_CD45NEG_CD90POS...
454. 2 CY94_CD45NEG_CD90POS...

455. 2 cy94_cd45neg_cd90pos...
456. 2 cy94_cd45neg_cd90pos...
457. 2 cy94_cd45pos_4_B09_S...
458. 2 cy94_cd45pos_4_B12_S...
459. 2 cy94_cd45pos_4_C03_S...
460. 2 cy94_cd45pos_4_C04_S...
461. 2 cy94_cd45pos_4_D06_S...
462. 2 cy94_cd45pos_4_D07_S...
463. 2 cy94_cd45pos_4_G06_S...
464. 2 cy94_cd45pos_4_H11_S...
465. 2 cy94_cd45pos_B12_S12...
466. 2 cy94_cd45pos_C03_S12...
467. 2 cy94_cd45pos_F12_S16...
468. 2 cy94_cd45pos_G01_S16...
469. 2 cy94_cd45pos_H09_S18...
470. 2 CY94CD45POS_1_A05_S1...
471. 2 CY94CD45POS_1_A10_S1...
472. 2 CY94CD45POS_1_A12_S1...
473. 2 CY94CD45POS_1_B01_S1...
474. 2 CY94CD45POS_1_D07_S1...
475. 2 CY94CD45POS_1_E05_S1...
476. 2 CY94CD45POS_1_E07_S1...
477. 2 CY94CD45POS_1_E09_S1...
478. 2 CY94CD45POS_1_E10_S1...
479. 2 CY94CD45POS_1_F05_S1...
480. 2 CY94CD45POS_1_F09_S1...
481. 3 cy60_1_cd_45_pos_3_D...
482. 3 cy60_1_cd_45_pos_3_D...
483. 3 cy60_1_cd_45_pos_3_G...
484. 3 cy60_1_cd_45_pos_4_B...
485. 3 cy60_1_cd_45_pos_4_B...
486. 3 cy60_1_cd_45_pos_4_D...
487. 3 cy60_1_cd_45_pos_4_D...
488. 3 cy60_1_cd_45_pos_4_E...
489. 3 cy60_1_cd_45_pos_4_E...
490. 3 cy60_1_cd_45_pos_4_G...
491. 3 cy60_1_cd_45_pos_4_H...
492. 3 cy60_1_cd_45_pos_4_H...
493. 3 cy60_1_cd_45_pos_HC_...
494. 3 cy60_1_cd_45_pos_HC_...
495. 3 cy60_1_cd_45_pos_HC_...
496. 3 cy60_1_cd_45_pos_HC_...
497. 3 cy60_1_cd_45_pos_HC_...
498. 3 cy60_1_cd_45_pos_HC_...
499. 3 cy60_1_cd_45_pos_HC_...
500. 3 cy60_1_cd_45_pos_HC_...
501. 3 Cy67-CD45pos-S2-A5_S...
502. 3 Cy67-CD45pos-S2-C10_...
503. 3 Cy67-CD45pos-S2-C7_S...
504. 3 Cy67-CD45pos-S2-E11_...
505. 3 Cy67-CD45pos-S2-F5_S...
506. 3 Cy67-CD45pos-S2-G9_S...
507. 3 Cy71_CD45_H05_S569_c...
508. 3 Cy72_CD45_A03_S675_c...
509. 3 Cy72_CD45_A07_S679_c...
510. 3 Cy72_CD45_D05_S713_c...
511. 3 Cy72_CD45_E09_S729_c...
512. 3 Cy72_CD45_F04_S736_c...
513. 3 Cy72_CD45_G09_S753_c...
514. 3 cy72-CD45-pos-D12-S9...
515. 3 cy74-CD45-pos-G04-S7...
516. 3 cy79-p1-CD45-pos-PD1...
517. 3 cy79-p1-CD45-pos-PD1...
518. 3 cy79-p1-CD45-pos-PD1...
519. 3 cy79-p1-CD45-pos-PD1...
520. 3 cy79-p1-CD45-pos-PD1...
521. 3 cy79-p3-CD45-pos-PD1...
522. 3 cy79-p3-CD45-pos-PD1...
523. 3 cy80-CD45-neg-C08-S4...
524. 3 cy80-CD45-neg-F10-S4...
525. 3 cy80-Cd45-pos-Pd1-ne...
526. 3 cy80-Cd45-pos-Pd1-ne...
527. 3 cy80-Cd45-pos-Pd1-ne...
528. 3 cy80-Cd45-pos-Pd1-ne...
529. 3 cy80-Cd45-pos-Pd1-ne...
530. 3 cy80-Cd45-pos-Pd1-ne...
531. 3 cy80-Cd45-pos-Pd1-ne...
532. 3 cy80-Cd45-pos-Pd1-ne...
533. 3 cy80-Cd45-pos-Pd1-ne...
534. 3 cy80-Cd45-pos-Pd1-ne...
535. 3 cy82-CD45-pos-1-A04-...
536. 3 cy82-CD45-pos-1-B12-...
537. 3 cy84_Primary_CD45_po...
538. 3 cy84_Primary_CD45_po...
539. 3 cy84_Primary_CD45_po...
540. 3 cy84_Primary_CD45_po...
541. 3 cy84_Primary_CD45_po...
542. 3 cy84_Primary_CD45_po...
543. 3 cy84_Primary_CD45_po...
544. 3 cy84_Primary_CD45_po...
545. 3 cy84_Primary_CD45_po...
546. 3 cy84_Primary_CD45_po...
547. 3 cy84-Met-CD45-pos-B0...
548. 3 cy84-Met-CD45-pos-H0...
549. 3 cy84-Met-CD45-pos-H1...
550. 3 cy88_cd45pos_5_G04_S...
551. 3 CY89A_CD45_POS_4_E06...
552. 3 CY89A_CD45_POS_4_F11...
553. 3 CY89A_CD45_POS_6_D01...
554. 3 CY89A_CD45_POS_6_F07...
555. 3 CY89A_Core_15_B08_S2...
556. 3 CY89A_Core_15_B10_S2...
557. 3 CY89A_Core_15_D02_S3...
558. 3 CY89A_Core_15_E06_S5...
559. 3 CY89A_Core_15_E11_S5...
560. 3 CY89A_Core_15_H11_S9...
561. 3 CY89COREQ1_B06_S306_...
562. 3 CY89COREQ1_F08_S356_...
563. 3 CY89COREQ1_H01_S373_...
564. 3 CY89FNA_E05_S245_com...
565. 3 CY89FNA_G05_S269_com...
566. 3 CY94_CD45NEG_CD90POS...
567. 3 CY94_CD45NEG_CD90POS...
568. 3 cy94_cd45neg_cd90pos...
569. 3 cy94_cd45pos_4_D04_S...
570. 3 cy94_cd45pos_4_E10_S...
571. 3 cy94_cd45pos_4_G04_S...
572. 3 cy94_cd45pos_B06_S11...
573. 3 cy94_cd45pos_C08_S12...
574. 3 cy94_cd45pos_F09_S16...
575. 3 cy94_cd45pos_G04_S17...
576. 3 CY94CD45POS_1_A04_S1...
577. 3 CY94CD45POS_1_A06_S1...
578. 4 cy58-1-CD45-pos-C01-...
579. 4 cy60_1_cd_45_pos_3_B...
580. 4 cy60_1_cd_45_pos_3_G...
581. 4 cy60_1_cd_45_pos_HC_...
582. 4 cy60_1_cd_45_pos_HC_...
583. 4 cy60_1_cd_45_pos_HC_...
584. 4 cy80-Cd45-pos-Pd1-ne...
585. 4 cy82-CD45-pos-2-G12-...
586. 4 cy82-CD45-pos-3-G11-...
587. 4 cy88_cd_45_pos_E05_S...
588. 4 cy88_cd_45_pos_F05_S...
589. 4 CY88CD45POS_2_G05_S4...
590. 4 CY88CD45POS_7_C05_S2...
591. 4 CY88CD45POS_7_D03_S2...
592. 4 CY88CD45POS_7_F05_S2...
593. 4 CY89A_CD45_POS_4_B03...
594. 4 CY89A_CD45_POS_6_D06...
595. 4 CY89A_CD45_POS_6_G06...
596. 4 CY89A_Core_15_F06_S6...
597. 4 CY94_CD45NEG_CD90POS...
598. 4 CY94CD45POS_1_H04_S1...

10 Appendix - Unused genes

The followings genes were not used because they could not be mapped to the internal gene symbols.

1. LOC653712
2. GPR98
3. BSN-AS2
4. LOC728040
5. LOC100216546
6. PROSC
7. FLJ26850
8. KIAA1199
9. EPT1
10. TMEM180
11. C11orf93
12. GLUD1P7
13. IPW
14. LOC338758
15. LINC00597
16. AGPHD1
17. DKFZP434I0714
18. LOC100133091
19. C11orf73
20. ERBB2IP
21. RNU6-33
22. LOC729603
23. FLJ42709
24. C19orf55
25. FONG
26. LOC654342
27. RNU6-34
28. FLJ45974
29. LOC100132707
30. FLJ39739
31. BAGE4
32. LINC00675
33. PP14571
34. LOC284344
35. LOC100506172
36. EMR1
37. LOC729177
38. LOC100527964
39. LOC100128252
40. C1orf145
41. ECRP
42. LOC440311
43. LOC400752
44. LOC338799
45. LOC100132735
46. LOC653486
47. LOC392232
48. LINC00577
49. LOC340073
50. C15orf60
51. LOC574538
52. LRRC16B
53. FLJ13224
54. C7orf53
55. LOC100505474
56. LOC100133161
57. LPPR4
58. LOC100129046
59. ZMYM6NB
60. RNU6-79
61. LINC00516
62. MS4A8B
63. LOC100130155
64. LOC284412
65. LOC729852
66. KIAA0368
67. LOC100289673
68. LOC100128993
69. C2orf53
70. MGC34796
71. FOLR4
72. PARK2
73. GPR124
74. ACPL2
75. LOC728724
76. LOC649133
77. SERF2-C15ORF63
78. LOC285593
79. LOC285627
80. EFCAB4A
81. CCDC129
82. LOC100500773
83. C11orf57
84. WIBG
85. FLJ34503
86. FLJ41200
87. 7-Sep
88. KIAA1045
89. FAM73B
90. LOC399715
91. LOC100144597
92. LOC727915
93. BET3L
94. C15orf26
95. SNORD50A
96. LOC100270746
97. FAM134A
98. FLJ13197
99. FAM22F
100. C4orf32
101. LOC392196
102. SKIV2L2
103. FKSG29
104. 2-Sep
105. LOC100289187
106. OBFC1
107. C14orf79
108. LOC100128420
109. FAM134C
110. LOC493754
111. POU4F1-AS1
112. C16orf11
113. LOC284837
114. LOC285972
115. KIAA1239
116. C11orf92
117. C21orf33
118. BRE
119. TOMM70A
120. LOC100507003
121. PAR-SN
122. MGC39372
123. MGC27382
124. HFE2
125. TMEM133
126. LOC731779
127. LOC100128593
128. LOC100507537
129. LOC387723
130. LOC401109
131. SNAR-A10
132. DOPEY1
133. LOC253039
134. LOC283922
135. BREA2
136. FLJ42875
137. RABL5
138. LOC100133957
139. LOC100506054
140. LOC644961
141. LOC100506190
142. LOC100507389
143. C1orf86
144. ILF3-AS1
145. HRSP12
146. KIAA1751
147. MIR219-2
148. PHOSPHO2-KLHL23
149. LOC154761
150. LOC653160
151. PCNA-AS1
152. NUDT4P1
153. SNAR-A7
154. RTDR1
155. LOC441155
156. FAM127C
157. FAM109A
158. LOC257358
159. FP588
160. C20orf24
161. LOC285484
162. ZFP106
163. TCEB3CL
164. LOC728323
165. LOC646813
166. LINC00260
167. FDPSL2A
168. LOC100169752
169. RNU6-83
170. C14orf182
171. LOC339442
172. HP07349
173. OR9G9
174. LOC100130894
175. C20orf201
176. C9orf37
177. TMEM66
178. MT1IP
179. LEPRE1
180. LOC150776
181. LOC100507299
182. C21orf88
183. PAR4
184. LOC100506474
185. PPAP2C
186. CTSL1P8
187. C11orf34
188. FLJ31813
189. LINC00696
190. LOC100507140
191. LOC646938
192. UFD1L
193. FLJ25363
194. SLC22A20
195. LOC415056
196. CCDC104
197. LOC100128568
198. LYRM5
199. KIAA1524
200. HDGFRP3
201. LOC100132356
202. LOC100289495
203. FLJ45513
204. LOC100505841
205. DDX26B
206. LOC100499405
207. LOC100506136
208. LOC338963
209. XAGE1C
210. LOC442459
211. LOC283174
212. LOC643201
213. LOC400654
214. HOXA10-HOXA9
215. PMS2L2
216. SNORD81
217. LOC645434
218. SPANXB2
219. LOC100132077
220. 7-Mar
221. LOC100130992
222. C1orf110
223. HIAT1
224. DEFB131
225. RQCD1
226. GAGE2D
227. RFPL1-AS1
228. C5orf54
229. LOC100507373
230. PET112
231. C9orf117
232. LOC100287834
233. C3orf27
234. FAM25B
235. C9orf114
236. LOC732275
237. C21orf15
238. LOC643623
239. LOC100506025
240. LOC390660
241. KIAA1737
242. LOC100422737
243. PAPD5
244. LOC646268
245. AGAP8
246. LOC442132
247. FAM105A
248. LOC100505624
249. LOC285768
250. LOC144742
251. C17orf104
252. LOC644936
253. LPHN1
254. LOC100507433
255. LOC441204
256. LOC645638
257. C14orf1
258. SKP1P2
259. FLJ42102
260. 6-Mar
261. C2orf71
262. C15orf57
263. LOC349160
264. LOC100128338
265. FAM74A2
266. SNORA43
267. LOC100289473
268. LOC100130238
269. LOC100292680
270. C6orf195
271. RAD51L3-RFFL
272. REXO1L1
273. LOC646498
274. STL
275. NPIP
276. DSCR3
277. LOC90834
278. EMCN-IT3
279. C5orf48
280. LOC100507244
281. FAM211B
282. RNU6-67
283. RUNX1-IT1
284. LOC152217
285. APCDD1L-AS1
286. C19orf60
287. LOC283070
288. LOC730091
289. FLJ46066

290. FAM115A
291. DYX1C1
292. LOC339166
293. LOC100507651
294. C1orf213
295. PTPLAD2
296. LOC100130093
297. LOC441461
298. WDR52
299. TMEM2
300. LINC00238
301. FLJ22184
302. LOC100506233
303. LOC286184
304. GPR111
305. LOC441025
306. FAM58A
307. LOC100507472
308. LOC644172
309. FTSJ2
310. PYCRL
311. LOC283332
312. LOC100652768
313. LOC100507564
314. CARKD
315. SMEK2
316. C1orf172
317. SCXA
318. LUST
319. C10orf11
320. LOC286189
321. LOC253044
322. LOC284100
323. PTPLA
324. ZCCHC16
325. NCRNA00185
326. LOC440518
327. MESDC2
328. LOC727896
329. LOC100506343
330. 1-Dec
331. DKFZP434A062
332. FLJ35024
333. LOC100130348
334. LOC100499484-C9ORF174
335. C10orf12
336. CCDC64
337. TMEM14E
338. LOC641515
339. CCDC11
340. C15orf52
341. LOC100506388
342. FAM63B
343. AKR1CL1
344. KIAA2018
345. LOC554223
346. LOC340515
347. LOC100505738
348. LOC645249
349. SNORD31
350. ASAP1-IT1
351. LOC284889
352. LOC100288069
353. CTSL2
354. C4orf52
355. WBSCR22
356. ASUN
357. C1orf168
358. LOC503519
359. C2orf57
360. ADCK4
361. PHF16
362. ERO1L
363. BAGE
364. PPP1R2P3
365. LOC100132146
366. LOC730159
367. CNIH
368. LOC284933
369. MNF1
370. EFHA2
371. 3-Sep
372. DKFZP434K028
373. C5orf4
374. FAM22D
375. METTL21D
376. FLJ40292
377. LOC283038
378. LOC100131691
379. LINC00439
380. SNAR-F
381. LOC340508
382. LOC729737
383. LOC388906
384. NGFRAP1
385. LOC643923
386. LOC100498859
387. SNAR-A1
388. LOC340017
389. LOC440288
390. LOC440900
391. EPB49
392. LOC284788
393. C7orf49
394. GTPBP5
395. LOC100129550
396. ZNF664-FAM101A
397. LOC642366
398. HOXD-AS1
399. 3-Mar
400. C12orf39
401. LOC100130849
402. NARFL
403. INMT-FAM188B
404. C20orf166-AS1
405. FLJ42393
406. LINC00341
407. KIAA1984-AS1
408. FLVCR1-AS1
409. LOC389023
410. C6orf57
411. LOC100272228
412. LOC389895
413. C9orf156
414. AGPAT6
415. LOC100133331
416. LOC100129520
417. FAM21A
418. LOC100507351
419. CSTF3-AS1
420. C6orf211
421. LINC00704
422. ZCCHC6
423. FLJ30679
424. LOC100130231
425. LOC100133050
426. RNU86
427. FAM24B-CUZD1
428. LOC100128770
429. HN1L
430. C10orf128
431. C8orf46
432. ZNF271
433. C19orf52
434. PTPN20A
435. C9orf172
436. TCEB1
437. ITFG3
438. C10orf137
439. LINC00483
440. FAM154A
441. LINC00657
442. C1orf65
443. FAM175B
444. LOC100287879
445. ERO1LB
446. LOC253573
447. LOC729609
448. LOC100652999
449. LOC100130872
450. KGFLP1
451. LOC100190940
452. C10orf129
453. LOC100131635
454. LOC100272216
455. LOC145474
456. C7orf63
457. GATSL1
458. PRAMEF3
459. FLJ41278
460. LPPR1
461. PDIA3P
462. C10orf32-AS3MT
463. C13orf35
464. LOC100131096
465. ZCCHC11
466. LOC440970
467. C16orf80
468. SMCR9
469. LOC100302640
470. LOC100507584
471. ATP5L2
472. LOC283585
473. LOC648987
474. ANKRD32
475. SNORD85
476. LOC646903
477. LOC100288255
478. AGSK1
479. LOC100130673
480. GCN1L1
481. LOC286359
482. LOC440297
483. LEPREL1
484. LINC00035
485. FAM101B
486. PPIAL4B
487. LOC100505812
488. LOC200772
489. LOC283731
490. LOC339975
491. FAM212A
492. AGPAT9
493. FLJ30403
494. AMICA1
495. LOC100129534
496. FAM5C
497. C19orf40
498. LOC100133612
499. LOC202781
500. LOC100507391
501. LOC100499227
502. FAM46B
503. LINC00086
504. LOC100126784
505. CYP3A7-CYP3AP1
506. KIAA1430
507. TSSC1
508. LOC100240734
509. FAM150B
510. LOC158696
511. LOC91450
512. HTT-AS1
513. LOC150197
514. PPAP2A
515. LOC155060
516. FAM183B
517. ATP5B
518. CPSF3L
519. CCDC108
520. PNMAL2
521. FAM27A
522. C19orf45
523. TTC18
524. MRE11A
525. LOC728819
526. LOC647323
527. LOC100271722
528. LOC100288814
529. C10orf76
530. GUCY1B3
531. LOC440563
532. GPR133
533. LOC729506
534. FLJ46300
535. LOC100132062
536. MIR549
537. SGOL1
538. LOC440600
539. GAGE4
540. C11orf85
541. TMEM57
542. GLT25D1
543. C8orf42
544. AA06
545. LOC100506548
546. LOC286190
547. C10orf35
548. LOC100129794
549. TMEM55B
550. MGC16025
551. C20orf196
552. CCL4L1
553. KCNE1L
554. LOC643037
555. C3orf43
556. LOC100133123
557. C16orf52
558. ANKRD20A12P
559. LDOC1L
560. FAM92A1
561. ALS2CR11
562. C4orf40
563. C18orf56
564. LOC100128531
565. LOC100505695
566. LOC100131551
567. C11orf30
568. EFCAB4B
569. FAM60A
570. LOC340357
571. LOC100132352
572. LINC00202-1
573. LOC285548
574. LOC100131564
575. RNY5
576. FLJ33630
577. C7orf29
578. LOC650368
579. SNORD77
580. LOC151484
581. CSN1S2BP
582. LOC100128264
583. GLTSCR1
584. GATM-AS1
585. GPR115
586. PPAPDC1A
587. LOC100505964
588. C22orf29
589. LOC255025
590. LOC100128164
591. C2orf62
592. LOC401127
593. C4orf21
594. LOC283143
595. LOC100144604
596. LOC100130700
597. LINC00617
598. LOC100630923
599. GNB2L1
600. LOC100996291
601. TMEM35
602. C19orf77

603. FLJ35282
604. LOC100507250
605. KIAA1456
606. GBAS
607. SNORD80
608. KLRAP1
609. LOC100506050
610. FAM26E
611. PPY2
612. ATP1A1OS
613. PPYR1
614. LOC400027
615. WDR67
616. ZFP112
617. LOC100652772
618. LOC644554
619. C11orf63
620. LOC731223
621. LINC00152
622. SNAR-B2
623. LOC389247
624. C21orf37
625. MIR3607
626. LOC100133669
627. LOC100631378
628. LOC100132111
629. LOC284080
630. FLJ44511
631. LOC100129138
632. LOC100134259
633. FRG1B
634. SNAR-A3
635. NAPRT1
636. LOC375295
637. C7orf34
638. FAM65C
639. MKI67IP
640. LOC284294
641. ATP5C1
642. FLJ45079
643. LOC348761
644. LOC256021
645. LINC00264
646. PVRL3
647. LOC100505865
648. MGEA5
649. LINC00633
650. AHCTF1P1
651. APITD1
652. LOC100128714
653. MIR1270-2
654. UTP11L
655. SDCCAG3
656. WAPAL
657. LOC642846
658. ZNF645
659. LOC643339
660. C12orf69
661. SPANXE
662. LOC728537
663. FAM134B
664. LOC643648
665. LOC389332
666. LOC285878
667. C4orf22
668. LOC93622
669. FLJ40288
670. LOC255130
671. LOC145783
672. LOC93432
673. KIAA1033
674. FLJ36000
675. AOC4
676. KIAA1609
677. LOC100132078
678. LOC285740
679. CN5H6.4
680. KIAA0020
681. C19orf10
682. LOC100506241
683. LOC283299
684. LOC152225
685. LOC642852
686. DSCR6
687. LOC728558
688. C4orf29
689. SLMO1
690. LOC256880
691. FLJ38576
692. C21orf59
693. TENC1
694. MYEOV2
695. HOXA-AS4
696. LOC440356
697. C1orf151-NBL1
698. C6orf1
699. MIR1270-1
700. LOC389043
701. FLI1-AS1
702. LOC399744
703. PLK1S1
704. IL8
705. EMR2
706. DOPEY2
707. C15orf38
708. LOC100128398
709. LOC157381
710. LOC400680
711. LOC100131234
712. CSRP2BP
713. LOC652276
714. LOC100506207
715. LOC220729
716. C1orf180
717. LOC100133286
718. LOC100288911
719. C6orf170
720. LOC728024
721. LOC100286793
722. LOC154092
723. LOC158376
724. SRG7
725. LOC284395
726. LOC100287225
727. IKBKAP
728. LINC00094
729. LOC643802
730. FLJ46361
731. LOC100506585
732. DUS2L
733. LOC100506804
734. LINC00340
735. LOC100287314
736. LOC100507577
737. ATP5A1
738. ATP5J2
739. TRIM49D1P
740. LOC146880
741. C14orf183
742. PPP1R2P9
743. HMHA1
744. GPR97
745. ZNF790-AS1
746. CXorf31
747. WHAMMP1
748. LOC90246
749. C12orf5
750. FLJ44313
751. SNAR-A4
752. LOC388813
753. LOC100507091
754. SNORA34
755. LINC00087
756. LOC79015
757. LOC101055625
758. LOC100129620
759. LOC728752
760. LOC100506421
761. MKL2
762. RNU6-53
763. LOC400084
764. LOC100506082
765. ZNRD1-AS1
766. KIAA1731
767. DGCR14
768. CIRH1A
769. PRAC
770. NT5C3
771. CLK2P
772. LOC145845
773. KIAA0125
774. C10orf131
775. DAK
776. LOC100653515
777. LOC285419
778. CCRL1
779. LOC286367
780. C19orf69
781. MYCL1
782. LOC643406
783. LOC100144602
784. C14orf142
785. VWA9
786. KIAA1462
787. LOC100287072
788. CSDAP1
789. LOC152578
790. LOC100130370
791. LPPR5
792. C3orf55
793. GAREML
794. LOC149086
795. C19orf21
796. PSIMCT-1
797. FLJ43663
798. LOC81691
799. GPR123
800. C17orf103
801. LOC151009
802. C17orf70
803. MGC45922
804. MAGEA10-MAGEA5
805. LOC284276
806. LOC100288122
807. DKFZp686O1327
808. KIAA1279
809. LOC646278
810. LOC642236
811. LOC151475
812. C18orf8
813. KIAA2022
814. WASH1
815. RFWD2
816. FAM5B
817. 10-Sep
818. LOC100287015
819. C1orf227
820. LOC286437
821. ACRC
822. C8orf4
823. PCDHB17
824. MT1P2
825. C12orf61
826. C9orf171
827. LOC100272217
828. LAMB2P1
829. LOC100134868
830. LOC283692
831. LOC284260
832. 5-Mar
833. LOC283214
834. C7orf76
835. MEF2BNB-MEF2B
836. GPR64
837. LOH12CR1
838. LOC100996455
839. AQPEP
840. GPR112
841. LOC285629
842. LOC100133985
843. FLJ39639
844. LINC00669
845. GATS
846. DPCR1
847. WDR85
848. INTS4L2
849. LOC729911
850. IQCF4
851. HTA
852. MLL4
853. LINS
854. PRG1
855. LOC148413
856. LOC388152
857. LOC387895
858. LOC402779
859. LOC90499
860. ENTHD2
861. ZNF259
862. RNU6-66
863. LOC339505
864. RPL19P12
865. LOC440434
866. ZNF818P
867. C18orf62
868. WBSCR17
869. LOC100505875
870. SYT14L
871. LOC729966
872. LOC100131257
873. LOC730102
874. 1-Mar
875. LOC613038
876. LOC286083
877. LOC100130451
878. SUV420H2
879. MIR511-1
880. HDHD1
881. DHFRL1
882. NBLA00301
883. LOC100505619
884. LOC100506422
885. LOC100129722
886. LOC729176
887. LOC400043
888. FDX1L
889. BCMO1
890. LOC728342
891. LOC643723
892. LOC654433
893. LOC100289561
894. TCEB3C
895. LOC100130691
896. C16orf55
897. CCDC111
898. FLJ11235
899. MTVR2
900. LOC100287792
901. GAGE12I
902. GLTSCR1L
903. LOC100131047
904. LOC643770
905. SPANXF1
906. C20orf26
907. PEG3-AS1
908. LOC147646
909. FAM188B
910. CCBL1
911. PPAP2B
912. QTRTD1
913. GNN
914. PAR5
915. FAM194A

916. LOC440896
917. HSD52
918. LOC100505648
919. LOC728730
920. RLTPR
921. LOC100505549
922. C8orf56
923. LOC400684
924. GPER
925. LOC100506368
926. EEF1E1-MUTED
927. 1-Sep
928. C1orf192
929. LOC100130950
930. SNORA39
931. TMEM48
932. C10orf68
933. ATP5E
934. PCNXL2
935. AZI1
936. C4orf26
937. LOC339862
938. LOC100268168
939. LOC100131138
940. HYALP1
941. ZAK
942. LOC441601
943. LOC401557
944. ZNF788
945. TISP43
946. FAM45B
947. LOC100133461
948. MGC16275
949. ZNF205-AS1
950. LINC00651
951. SCAND3
952. LOC100134317
953. C1orf27
954. KIAA1009
955. BZRAP1
956. ZCCHC5
957. C6orf123
958. LOC283914
959. LOC286370
960. SPATA31A2
961. LOC649330
962. LEPREL2
963. LOC400620
964. FIGF
965. CXXC11
966. METTL20
967. KIAA1704
968. KGFLP2
969. FLJ42627
970. C7orf62
971. MRS2P2
972. LOC100507384
973. CYP2D7P1
974. CYP2B7P1
975. CSDA
976. LOC349196
977. FLJ46284
978. C10orf40
979. FAM154B
980. SNORD76
981. LOC150381
982. SETD8
983. MGC21881
984. RPS17L
985. KIAA1656
986. WDR96
987. RRP7B
988. ADC
989. MLL3
990. C21orf49
991. LOC100287534
992. LOC400940
993. MGC16121
994. HIATL2
995. FLJ35390
996. SOLH
997. FTSJD1
998. NHP2L1
999. FLJ39051
1000. LOC100130357
1001. LINC00548
1002. FLJ33360
1003. LOC100506810
1004. LOC100129083
1005. C7orf41
1006. ICT1
1007. SMCR7
1008. USMG5
1009. RNU6-6
1010. TMEM5
1011. MIR511-2
1012. LOC100288432
1013. LOC400958
1014. MTERFD1
1015. LOC401164
1016. PRSS3P2
1017. LECT1
1018. LOC100130776
1019. LOC100129935
1020. LOC100129518
1021. LOC284661
1022. WDR52-AS1
1023. LOC100192426
1024. LOC729987
1025. LOC642929
1026. SCARNA9L
1027. GPR128
1028. LOC646214
1029. LOC727982
1030. LOC150622
1031. MGC34034
1032. LOC100507634
1033. PRMT10
1034. KIAA0146
1035. LOC100288974
1036. BRWD1-IT2
1037. LOC100287042
1038. ATP5J
1039. KIAA1967
1040. LOC255512
1041. LOC388692
1042. LOC100132247
1043. LOC729683
1044. LHFP
1045. C21orf7
1046. C7orf55
1047. DKFZp686K1684
1048. C22orf32
1049. PTPLB
1050. HGC6.3
1051. LOC101101776
1052. LOC100506195
1053. LOC282997
1054. LOC283867
1055. C9orf53
1056. SELV
1057. SELM
1058. LOC730811
1059. SEPW1
1060. FAM205B
1061. LOC257396
1062. ELTD1
1063. C21orf90
1064. RBAK-LOC389458
1065. LOC388948
1066. C11orf84
1067. LOC100289341
1068. LOC643441
1069. KIAA1598
1070. LINC00673
1071. MTL5
1072. INADL
1073. LOC339524
1074. PLAC1L
1075. 11-Mar
1076. LOC150185
1077. LOC100507206
1078. FLJ38109
1079. 6-Sep
1080. SNAR-C2
1081. LOC100131289
1082. PVRL4
1083. LOC389705
1084. LOC100505718
1085. RNU6-57
1086. LOC100289019
1087. LINC00277
1088. MIR219-1
1089. LOC100288181
1090. LOC550643
1091. LOC401242
1092. C22orf28
1093. LOC100294145
1094. C5orf45
1095. FAM178A
1096. 14-Sep
1097. LOC149950
1098. C20orf195
1099. LOC100133267
1100. LOC285547
1101. LOC284454
1102. BAI3
1103. LOC100127888
1104. SOGA2
1105. GPR116
1106. LOC100507300
1107. LOC339240
1108. C16orf59
1109. DISC2
1110. LOC339666
1111. MLL
1112. LOC100506071
1113. LOC641367
1114. GAGE7
1115. LOC100289509
1116. LGALS17A
1117. LOC254559
1118. LOC100130581
1119. ZNF812
1120. PPAPDC3
1121. LOC284551
1122. LOC100507117
1123. LOC100130899
1124. LOC728716
1125. LOC644669
1126. LPPR2
1127. NUPR1L
1128. C1orf51
1129. LRRC3-AS1
1130. LOC338817
1131. CCDC109B
1132. LOC158435
1133. LOC100499484
1134. LARGE
1135. LOC728606
1136. LOC341056
1137. FLJ37505
1138. FRMPD2P1
1139. LOC389791
1140. LOC100144603
1141. LOC100506895
1142. ALPPL2
1143. ZFYVE20
1144. BLOC1S1-RDH5
1145. CCDC79
1146. DKFZP434H168
1147. LINC00263
1148. C12orf68
1149. MIR3648
1150. LOC100289230
1151. LOC729444
1152. LOC646168
1153. LOC727924
1154. DKFZp451B082
1155. RNU6-72
1156. LOC284009
1157. ATP5EP2
1158. FAM26F
1159. LOC100505478
1160. PVRL2
1161. LOC100505933
1162. SNORA3
1163. LOC400657
1164. LOC730227
1165. B3GALTL
1166. FAM179A
1167. SNAR-H
1168. C1orf95
1169. LOC100505545
1170. SNORD114-8
1171. BAGE5
1172. CCDC19
1173. LOC284648
1174. FAM103A1
1175. SMCR7L
1176. FAM195B
1177. PHF17
1178. LOC144486
1179. FAM101A
1180. LOC100287177
1181. SSX8
1182. ATP5O
1183. LOC100130954
1184. SDPR
1185. GRIK1-AS2
1186. CTSL1
1187. LOC100128822
1188. CASC5
1189. FAM46A
1190. CCDC101
1191. LOC100134368
1192. EPN2-IT1
1193. LOC100862671
1194. LOC100131655
1195. KIAA1467
1196. LOC644838
1197. LOC283440
1198. LOC389641
1199. LOC90784
1200. C6orf165
1201. KIAA1468
1202. LOC400794
1203. AGXT2L2
1204. CCDC135
1205. ABP1
1206. FLJ46257
1207. GOLGA8I
1208. LOC388242
1209. GTF2H2D
1210. LOC100270679
1211. LOC286442
1212. SNORA80
1213. LOC646736
1214. LOC286114
1215. SCARNA27
1216. SNAR-A2
1217. RSBN1L-AS1
1218. LOC100505702
1219. LOC100129345
1220. LOC284798
1221. LSAMP-AS3
1222. FBXO18
1223. LOC100132215
1224. LOC613037
1225. LOC100130452
1226. LOC100505540
1227. LOC100506134
1228. LOC644145

1229. LOC101054525
1230. PVRL3-AS1
1231. REREP3
1232. ZNF487P
1233. GRAMD3
1234. LOC606724
1235. LOC100289092
1236. ATP5G1
1237. SPTY2D1-AS1
1238. LOC645513
1239. LOC100288079
1240. CTSL1P2
1241. SNORA42
1242. MTERF
1243. LOC401397
1244. LOC100288524
1245. ATP5G2
1246. LOC283856
1247. LOC100996307
1248. LOC401324
1249. CRHR1-IT1
1250. LOC100130557
1251. SGK110
1252. NS3BP
1253. LOC100507463
1254. LOC100132741
1255. LOC96610
1256. GRAMD2
1257. LOC649395
1258. CCDC41
1259. C6orf70
1260. LOC401463
1261. LOC100506023
1262. LOC286238
1263. LOC100128682
1264. C2orf44
1265. FLJ33534
1266. C20orf118
1267. GAGE2B
1268. FLJ14186
1269. LOC645355
1270. FAM46D
1271. LOC286177
1272. LOC100129617
1273. SUV420H1
1274. LOC100505666
1275. LOC401052
1276. DOM3Z
1277. LOC100129858
1278. FAM175A
1279. C16orf62
1280. C7orf60
1281. CXCR7
1282. ATPBD4-AS1
1283. DKFZp566F0947
1284. LOC100506083
1285. NCRUPAR
1286. CXorf23
1287. WDR65
1288. LOC100505761
1289. WDR16
1290. LOC285540
1291. LOC100130744
1292. LOC100130987
1293. LOC100288748
1294. SNAR-B1
1295. SLMO2
1296. LOC728175
1297. LOC100128750
1298. LOC100506472
1299. SNAR-C5
1300. LOC100499183
1301. LOC254100
1302. LOC100130476
1303. NADKD1
1304. HN1
1305. FAM96A
1306. MFI2
1307. LOC100505806
1308. LOC100505776
1309. PPAPDC1B
1310. LOC100289361
1311. C10orf114
1312. C17orf62
1313. GYLTL1B
1314. CHDC2
1315. LOC148696
1316. LOC648691
1317. C20orf112
1318. MINOS1P1
1319. XAGE1E
1320. SNORA45
1321. FLJ12334
1322. DKFZp686D0853
1323. LINC00493
1324. C17orf74
1325. LOC149134
1326. FAM203A
1327. LOC647859
1328. ATPIF1
1329. PAK7
1330. KC6
1331. LOC100507156
1332. LOC440905
1333. LOC653786
1334. SNAR-A5
1335. PAPD7
1336. LOC100506795
1337. FAM150A
1338. LOC100506321
1339. C1orf177
1340. KIAA1377
1341. VIMP
1342. USP17L1P
1343. NPIPL3
1344. LOC100505622
1345. LOC653653
1346. SEPT7L
1347. CRAMP1L
1348. LOC339803
1349. LOC100287944
1350. LOC154449
1351. EMR3
1352. C11orf48
1353. C9orf69
1354. LOC283177
1355. C20orf166
1356. NEURL
1357. LOC645752
1358. LOC439994
1359. LINC00176
1360. MIR4482-1
1361. FAM27L
1362. LOC100129726
1363. STRA13
1364. LOC100507194
1365. LOC285074
1366. KIRREL
1367. LOC145837
1368. LINC00312
1369. LOC286186
1370. C9orf123
1371. LOC401980
1372. C1orf170
1373. 11-Sep
1374. LOC100505676
1375. LOC100288637
1376. LOC100132273
1377. C12orf23
1378. LOC100505839
1379. LOC400548
1380. MGC16142
1381. SNORD79
1382. GAGE8
1383. ATPBD4
1384. RNU6-69
1385. BMS1P5
1386. KCNMB2-IT1
1387. C18orf61
1388. TMEM30C
1389. TMEM110
1390. BAIAP2-AS1
1391. LOC339894
1392. WBSCR16
1393. MLLT4
1394. C1orf200
1395. C19orf80
1396. NARR
1397. LOC100507173
1398. FAM115C
1399. LOC646719
1400. C11orf75
1401. LOC727849
1402. RAB7L1
1403. TTLL13
1404. C1orf101
1405. TEX40
1406. SNAR-D
1407. LOC374443
1408. FLJ42351
1409. LOC646999
1410. LOC401497
1411. ERICH1-AS1
1412. RNU6-52
1413. PP7080
1414. LOC541471
1415. LOC728377
1416. LOC646329
1417. LOC100131060
1418. NDNL2
1419. LOC100506599
1420. FAM194B
1421. LOC100129361
1422. LOC388849
1423. LOC400558
1424. CCRN4L
1425. LOC100128787
1426. MAFG-AS1
1427. LOC285441
1428. LOC100286922
1429. LOC286135
1430. LOC440461
1431. KIAA0196
1432. FAM188A
1433. LOC100506122
1434. LOC100130417
1435. METTL10
1436. GPR126
1437. LOC100506451
1438. LOC100287632
1439. LOC283335
1440. LOC100507547
1441. BRE-AS1
1442. C14orf80
1443. LOC113230
1444. PTCHD2
1445. 9-Sep
1446. LOC100303749
1447. TCEB3
1448. C8orf22
1449. LOC100289650
1450. CCBL2
1451. C14orf166
1452. FAM226A
1453. LOC100129027
1454. GTDC2
1455. LOC100506385
1456. LACE1
1457. C16orf88
1458. DFNB31
1459. LOC100129427
1460. C1orf140
1461. LOC339874
1462. IRG1
1463. LOC494141
1464. TCEB3B
1465. ORAOV1
1466. DFNA5
1467. CCDC164
1468. IGJ
1469. LOC100499194
1470. C21orf54
1471. LOC100505912
1472. 4-Sep
1473. LOC339822
1474. LOC283194
1475. FAM86A
1476. LOC643669
1477. LOC255654
1478. KIAA0247
1479. C8orf47
1480. LOC391322
1481. DEFB109P1B
1482. LOC100128239
1483. SLC24A6
1484. FAM65B
1485. LOC401074
1486. SPG20OS
1487. LOC100505633
1488. C16orf13
1489. PION
1490. LOC728084
1491. LOC100507032
1492. APITD1-CORT
1493. LOC100216545
1494. LOC100873065
1495. C8orf40
1496. LOC100144595
1497. PAPL
1498. SHFM1
1499. LOC643837
1500. LOC100507053
1501. LOC100505658
1502. LOC283693
1503. LOC100131089
1504. LINC00202-2
1505. LOC344967
1506. LOC283403
1507. SNAR-A14
1508. LOC339535
1509. CECR6
1510. SNAR-A12
1511. LOC84931
1512. UBE2Q2P3
1513. CRSP8P
1514. LOC100507387
1515. NIM1
1516. LOC400891
1517. SMA4
1518. LOC400685
1519. LOC284757
1520. MRPL42P5
1521. SNORD74
1522. TRAPPC2P1
1523. LOC284865
1524. LOC100287846
1525. LOC221122
1526. SEPN1
1527. LOC100188947
1528. LOC440910
1529. LOC100289137
1530. PRHOXNB
1531. CXorf30
1532. LOC100129931
1533. LOC730101
1534. FAM64A
1535. FAM21C
1536. C19orf59
1537. LIMS3-LOC440895
1538. PER4
1539. LINC00568
1540. LOC440028
1541. PCNXL3

1542. FLJ34208
1543. SNAR-C4
1544. FAM96B
1545. MGC45800
1546. KIAA1715
1547. FLJ16171
1548. MLLT4-AS1
1549. LOC440704
1550. CTAGE15P
1551. DKFZp779M0652
1552. LOC1720
1553. GPR89C
1554. PRSS46
1555. LOC100132781
1556. FKBP1A-SDCBP2
1557. LOC100129175
1558. ANXA8L2
1559. XRCC6BP1
1560. LOC440243
1561. SLMO2-ATP5E
1562. FLJ20518
1563. C15orf59
1564. AURKAPS1
1565. LOC100505679
1566. C10orf107
1567. LOC285889
1568. LOC100131496
1569. LOC254099
1570. FAIM3
1571. LOC100129055
1572. LOC399753
1573. M1
1574. SNAR-G1
1575. LOC402160
1576. LOC339807
1577. CCDC132
1578. LOC100129480
1579. LOC285501
1580. LOC100216479
1581. LOC100507066
1582. AGXT2L1
1583. FLJ14107
1584. LOC254896
1585. RNU6-76
1586. LOC644649
1587. ZNF767
1588. CCDC176
1589. LOC653501
1590. PAPD4
1591. LOC650226
1592. FAM127A
1593. TMPRSS4-AS1
1594. UQCC
1595. CCDC23
1596. LOC729080
1597. ALMS1P
1598. LOC389033
1599. LOC255167
1600. LOC91948
1601. C11orf83
1602. ZNF663
1603. MIR203
1604. LOC100294362
1605. PAR1
1606. LINC00478
1607. FBXO22-AS1
1608. LOC440894
1609. SNAR-C1
1610. FLJ45340
1611. LOC728431
1612. LOC100507118
1613. LOC100130075
1614. LOC100652770
1615. RCAN3AS
1616. LOC731424
1617. DKFZP686I15217
1618. MFSD7
1619. SNORD103A
1620. C1orf173
1621. LINC00441
1622. RNU6-28
1623. LOC339568
1624. PRAMEF16
1625. TSG1
1626. FLJ37453
1627. RSG1
1628. C19orf26
1629. FLJ16779
1630. LOC100505978
1631. LOC100507424
1632. LOC283683
1633. METTL21B
1634. GPR144
1635. FAM132A
1636. C2orf43
1637. LOC729013
1638. LOC92249
1639. SKINTL
1640. LOC100652909
1641. FLJ26245
1642. KAL1
1643. GPR113
1644. C10orf118
1645. SNAR-A8
1646. LOC100288123
1647. C3orf45
1648. LOC100130301
1649. GM140
1650. LOC100132354
1651. LOC100379224
1652. C5orf55
1653. LOC100507377
1654. MIR4520A
1655. PIR-FIGF
1656. KIAA1984
1657. LOC100093698
1658. C4orf6
1659. PIDD
1660. CT64
1661. C7orf73
1662. MGC2752
1663. SRPR
1664. DCDC5
1665. LOC285696
1666. MLL2
1667. C12orf70
1668. SF3B14
1669. LOC100506688
1670. FKBP9L
1671. C9orf169
1672. C1orf228
1673. C2orf47
1674. APOBEC3A_B
1675. LOC100131434
1676. RP1-177G6.2
1677. LOC728554
1678. LOC100506801
1679. LPHN2
1680. ZUFSP
1681. LOC100505876
1682. LOC441009
1683. C10orf32
1684. LOC339788
1685. LOC100505918
1686. DEFB130
1687. LOC286059
1688. LOC550113
1689. PVRL1
1690. GSTTP1
1691. LEPREL4
1692. FLJ12825
1693. LOC100507334
1694. AKD1
1695. LOC100505495
1696. TUSC5
1697. C20orf111
1698. 10-Mar
1699. LOC730183
1700. 5-Sep
1701. LOC399815
1702. ATP5I
1703. LOC283663
1704. LOC158434
1705. LOC100506013
1706. SNORD59B
1707. LOC729739
1708. LINC00515
1709. C21orf119
1710. SNAR-I
1711. C6orf164
1712. LOC100129250
1713. LOC285819
1714. LOC158572
1715. ACPT
1716. AIM1L
1717. LOC100506746
1718. LOC440040
1719. RGAG4
1720. C14orf169
1721. SSX9
1722. DUX2
1723. LOC340094
1724. ATP5J2-PTCD1
1725. LOC100129316
1726. ATHL1
1727. C14orf105
1728. FLJ21408
1729. TMEM257
1730. LOC338651
1731. RNU6-35
1732. C2orf82
1733. KIAA1407
1734. TRIM49D2P
1735. LOC100288778
1736. LOC100130855
1737. H2BFXP
1738. WTH3DI
1739. DKFZP434L187
1740. LOC115110
1741. NAT6
1742. LOC283761
1743. PRUNE
1744. SNORD75
1745. HCG26
1746. LOC100506844
1747. LOC494127
1748. JHDM1D
1749. KLHL7-AS1
1750. CYBASC3
1751. LOC100506035
1752. MLK7-AS1
1753. C14orf159
1754. LOC100506124
1755. LOC646762
1756. LOC400927
1757. DIEXF
1758. LOC100130000
1759. LOC441666
1760. LOC100506403
1761. SETD5-AS1
1762. FLJ30838
1763. MB21D1
1764. LOC100130480
1765. 9-Mar
1766. LOC642423
1767. LOC401321
1768. C3orf37
1769. TMEM194B
1770. LOC100630918
1771. PROL1
1772. LOC728739
1773. C7orf13
1774. LOC441454
1775. LINC00521
1776. C7orf45
1777. LOC344887
1778. LOC100506393
1779. C9orf142
1780. 2-Mar
1781. XAGE2B
1782. FAM108C1
1783. LOC645166
1784. FLJ39080
1785. LOC201651
1786. HNRPDL
1787. LOC100271832
1788. SEPP1
1789. C17orf96
1790. LOC100506730
1791. C9orf174
1792. CENPVP2
1793. LOC100130539
1794. LOC643529
1795. C15orf55
1796. LOC100506274
1797. FLJ37035
1798. LOC729020
1799. KIAA0195
1800. LOC284385
1801. LOC285084
1802. FLJ45445
1803. DKFZp434L192
1804. LOC100507600
1805. LOC100131094
1806. C18orf42
1807. MRP63
1808. LOC100505989
1809. LOC100128881
1810. PPAPDC2
1811. LOC100134229
1812. LOC100131067
1813. BAI2
1814. SPDYE2L
1815. MST4
1816. GDEP
1817. NHEG1
1818. LOC154872
1819. FAM196A
1820. LOC100505782
1821. LOC100652739
1822. EMR4P
1823. MGC15885
1824. FLJ27352
1825. RNMTL1
1826. TARP
1827. APOA1BP
1828. SC5DL
1829. LOC494558
1830. LPPR3
1831. HIATL1
1832. LOC100131825
1833. LOC283587
1834. LRRC16A
1835. MKL1
1836. C17orf61-PLSCR3
1837. LOC100128554
1838. C1orf186
1839. PNMA6D
1840. LOC100505768
1841. ANP32A-IT1
1842. LOC100505795
1843. C15orf37
1844. LOC285033
1845. LOC143666
1846. C21orf67
1847. SNORA17
1848. LOC100132832
1849. C5orf42
1850. PP12613
1851. C15orf27
1852. NARG2
1853. LOC541473
1854. LOC554206

1855. C9orf91
1856. FLJ40194
1857. C1orf85
1858. ATP5F1
1859. LOC440117
1860. LOC254128
1861. MGC2889
1862. MLF1IP
1863. CT60
1864. SNAR-A6
1865. FLJ16341
1866. CTAGE5
1867. PRH1-PRR4
1868. LOC152742
1869. LOC100129917
1870. GJA9-MYCBP
1871. FAM73A
1872. WHSC1
1873. LOC729970
1874. LOC283688
1875. LRRC33
1876. C19orf43
1877. WHSC1L1
1878. AGAP7
1879. RNU6-78
1880. FAM159A
1881. PTRF
1882. LOC100506469
1883. UPK3BL
1884. LOC202181
1885. LOC642426
1886. LOC100507346
1887. LOC100128176
1888. C17orf85
1889. LRRC48
1890. SPG20
1891. LINC00162
1892. RNU6-81
1893. C14orf166B
1894. FAM108A1
1895. FAM195A
1896. LSMD1
1897. UG0898H09
1898. C17orf72
1899. LOC100507489
1900. KIAA0226L
1901. SMA5
1902. LOC440925
1903. EP400NL
1904. 12-Sep
1905. NBPF16
1906. LOC100507462
1907. LOC286467
1908. FAM22G
1909. C2orf61
1910. LOC407835
1911. LOC153684
1912. LOC285762
1913. ATP5H
1914. CECR5
1915. LOC100271836
1916. MGC57346
1917. LOC440700
1918. LOC100505817
1919. LOC442028
1920. FLJ42969
1921. LOC653513
1922. VPRBP
1923. LOC100132891
1924. LOC100506990
1925. C17orf105
1926. CXorf64
1927. LOC100129961
1928. BZRAP1-AS1
1929. FAS-AS1
1930. FAM211A
1931. LOC392364
1932. LOC150568
1933. GPR110
1934. LOC344595
1935. LOC441455
1936. CCDC64B
1937. LOC644656
1938. LOC400456
1939. LOC63930
1940. KIAA1429
1941. LOC388796
1942. CCDC94
1943. LOC100499489
1944. ADRBK1
1945. PCDP1
1946. GMCL1P1
1947. RNU6-71
1948. LOC100128076
1949. LOC646743
1950. MESDC1
1951. SMIM16
1952. LOC100287036
1953. LOC729121
1954. LINC00684
1955. ATP5G3
1956. C14orf37
1957. CGB
1958. LOC284581
1959. BAGE3
1960. LOC643714
1961. LOC100130298
1962. LOC100129034
1963. LOC100507362
1964. LOC100133445
1965. CTBP1-AS1
1966. LOC100130880
1967. GSTTP2
1968. BMS1P6
1969. KIAA0922
1970. LOC100335030
1971. FLJ25758
1972. LOC100130015
1973. GPR56
1974. C16orf93
1975. LOC100505783
1976. CEBPA-AS1
1977. XGPY2
1978. LOC153910
1979. LOC728613
1980. LOC643486
1981. LOC100009676
1982. C5orf27
1983. C19orf35
1984. SGK494
1985. LOC340074
1986. LOC100130705
1987. SNORA76
1988. FLJ27354
1989. MIR3545
1990. C12orf36
1991. C3orf65
1992. LOC100506874
1993. LOC731275
1994. FLJ41649
1995. FTSJD2
1996. FAM46C
1997. C16orf3
1998. LOC284950
1999. LOC100506305
2000. LOC400655
2001. C14orf2
2002. LOC145820
2003. FAM127B
2004. N6AMT2
2005. KIAA1432
2006. GAGE6
2007. NRD1
2008. LOC440173
2009. C22orf43
2010. LOC389634
2011. LOC728875
2012. LOC100507410
2013. GAGE2C
2014. LINC00854
2015. NBPF24
2016. EFTUD1P1
2017. C1orf106
2018. FAM65A
2019. LOC100133920
2020. C17orf76-AS1
2021. C14orf23
2022. PRR24
2023. PTPLAD1
2024. LOC650293
2025. LOC643355
2026. LOC157273
2027. LINC00085
2028. TXLNG2P
2029. MIR664
2030. C5orf28
2031. MURC
2032. LOC339622
2033. DFNB59
2034. LOC286297
2035. C1orf63
2036. C17orf59
2037. LOC100129636
2038. LOC644189
2039. FAM105B
2040. LOC728407
2041. LOC100505659
2042. C9orf41
2043. MFI2-AS1
2044. C12orf52
2045. LOC388553
2046. ST7-OT3
2047. LINC00338
2048. LOC100506314
2049. DKFZp434J0226
2050. C1orf64
2051. MIR486
2052. LOC646862
2053. PCNX
2054. D21S2088E
2055. LOC100506668
2056. NOTCH2NL
2057. ZNF724P
2058. MAGOH2
2059. GATSL3
2060. LOC388942
2061. AIM1
2062. LOC100508120
2063. FAM21B
2064. IFLTD1
2065. SNAR-A11
2066. KDM5B-AS1
2067. KIAA1244
2068. MGC72080
2069. C3orf17
2070. HOXC-AS5
2071. LOC100507205
2072. UNQ6975
2073. SNAR-A13
2074. LOC100128573
2075. C11orf35
2076. CD97
2077. LOC729732
2078. SNORD44
2079. SMEK1
2080. LOC729041
2081. LOC441242
2082. LOC340113
2083. C10orf10
2084. SCXB
2085. SEPT5-GP1BB
2086. FLJ44635
2087. LOC100507254
2088. LOC284023
2089. DARC
2090. FLJ22447
2091. SPRNP1
2092. PNMA6C
2093. LOC146513
2094. C1orf233
2095. MIR2964A
2096. LOC100506713
2097. C11orf82
2098. LOC100506497
2099. LOC730441
2100. LOC643542
2101. SELK
2102. LOC100132287
2103. FLJ22763
2104. LOC644248
2105. ZNF542
2106. LOC100288846
2107. FCGR1C
2108. ATP5L
2109. LOC100128675
2110. WBP5
2111. KIAA0907
2112. LOC100288570
2113. FLJ10038
2114. FOXD4L2
2115. LOC100129924
2116. TMEM8C
2117. FLJ43879
2118. LOC100507217
2119. PDDC1
2120. CCDC53
2121. DBC1
2122. LOC642361
2123. LOC100507501
2124. FAM109B
2125. CECR5-AS1
2126. LOC100506123
2127. SGOL1-AS1
2128. FLJ46446
2129. LOC389906
2130. LIMS3L
2131. LOC595101
2132. WBSCR27
2133. FLJ23867
2134. SELT
2135. EFTUD1
2136. RGAG1
2137. LOC646471
2138. C9orf96
2139. CCDC90A
2140. C9orf89
2141. MTERFD2
2142. LOC441081
2143. TCEB2
2144. LOC100506963
2145. LOC100506229
2146. GPR125
2147. LOC100507632
2148. MEF2BNB
2149. FLJ31485
2150. KIAA0430
2151. LOC284998
2152. LOC100505716
2153. LOC440300
2154. LOC100506710
2155. XAGE1D
2156. LOC100506100
2157. LOC116437
2158. LOC100129213
2159. LOC401010
2160. C10orf54
2161. LOC284751
2162. LOC100131626
2163. LOC100287704
2164. LOC646626
2165. FLJ43681
2166. LOC100506384
2167. CXorf22

2168. LOC100505835
2169. C13orf45
2170. LOC285758
2171. AHSA2
2172. SNORD103B
2173. FAM91A2
2174. LOC100652791
2175. LOC100130331
2176. ATP5D
2177. LINC00693
2178. PTPN20B
2179. LOC643733
2180. KIAA1919
2181. C22orf26
2182. TOP1P2
2183. LOC100505687
2184. CXorf61
2185. GSG2
2186. GOLGA6L5
2187. RNU6-16
2188. GLTSCR2
2189. GPR114
2190. C4orf27
2191. LOC641746
2192. LOC100506394
2193. FYB
2194. FLJ42289
2195. LOC619207
2196. C12orf44
2197. MIR4520B
2198. SLED1
2199. KIAA0317
2200. FLJ41350
2201. LOC148145
2202. C9orf173
2203. OR8G2
2204. RNU6-64
2205. METTL12
2206. PCDHB18
2207. TAAR3
2208. PLEKHM1P
2209. LOC730668
2210. SLC35E2
2211. EFHA1
2212. FLJ31306
2213. C17orf66
2214. KIAA1161
2215. LOC401320
2216. LOC550112
2217. LOC100507266
2218. LOC285000
2219. BAI1
2220. C17orf89
2221. GATSL2
2222. FLJ37201
2223. MIR3687
2224. LOC728989
2225. LOC284379
2226. LOC285847
2227. HNRPLL
2228. LOC201617
2229. LOC100132831
2230. LOC649352
2231. LOC285577
2232. LOC100507443
2233. C7orf72
2234. LOC100128505
2235. LOC151171
2236. LOC283710
2237. CCDC37
2238. LOC728228
2239. LOC100287010
2240. LOC375196
2241. PRAMEF21
2242. LPHN3
2243. SSFA2
2244. LOC100506655
2245. FAM63A
2246. C1orf114
2247. TTC40
2248. CECR1
2249. PPP2R4
2250. LOC100271702
2251. LOC643401
2252. HEATR8-TTC4
2253. YAE1D1
2254. CCDC163P
2255. FLJ46906
2256. LOC729059
2257. PCNXL4
2258. LOC100128054
2259. KIAA1644
2260. CT49
2261. CXorf28
2262. C10orf2
2263. LOC440335
2264. SPATA31A4
2265. TCEB3CL2
2266. LOC146481
2267. LOC728743
2268. CCDC74B-AS1
2269. FAM179B
2270. LOC389458
2271. LOC100131320
2272. ALS2CR8
2273. LOC100506776
2274. LOC728463
2275. SRCRB4D
2276. SSX6
2277. LOC100506834
2278. MCIN
2279. CXorf27
2280. HDGFRP2
2281. LOC553103
2282. MINA
2283. PHF15
2284. MLL5
2285. CXorf48
2286. TTTY9A
2287. LOC100128288
2288. 4-Mar
2289. KIAA0226
2290. SNAR-E
2291. LOC442497
2292. C6orf7
2293. PKI55
2294. FLJ40852
2295. SNAR-A9
2296. SNAR-G2
2297. C14orf64
2298. DYX1C1-CCPG1
2299. LOC100506060
2300. LOC729950
2301. LOC645949
2302. FAM108B1
2303. LOC440895
2304. KIAA0101
2305. MIR143HG
2306. LOC339298
2307. HEATR2
2308. LOC147093
2309. C11orf70
2310. SMIM11
2311. SNORD29
2312. HNRNPU-AS1
2313. LOC643387
2314. C21orf128
2315. LOC389765
2316. C8orf12
2317. PROSAPIP1
2318. C3orf72
2319. LOC340107
2320. SNORD78
2321. LOC390705
2322. THEG5
2323. GUCY1A3
2324. PRKCDBP
2325. LOC100129269
2326. SQRDL
2327. MIR644B
2328. KIAA0141
2329. FLJ20021
2330. CCBP2
2331. FAM22A
2332. KIAA1683
2333. LOC100133315
2334. LOC285692
2335. LOC728392
2336. LOC727677
2337. IPO11-LRRC70
2338. LOC100130264
2339. C15orf43
2340. LOC100131726
2341. LOC339529
2342. FAM26D
2343. C9orf9
2344. LOC200726
2345. LOC151174
2346. LOC284688
2347. 8-Mar
2348. LOC285626
2349. FLJ35946
2350. LINC00116
2351. C1orf111
2352. LOC440354
2353. LOC401177
2354. MGC27345
2355. NUPL1
2356. LOC255411
2357. CCDC144C
2358. LOC100288842
2359. LINC00282
2360. LOC100289656
2361. SNORD47
2362. REG1P
2363. LOC399829
2364. CTAGE6P
2365. NACAP1
2366. RTFDC1
2367. LOC100507557
2368. HMP19
2369. TGIF2-C20orf24
2370. FAM212B
2371. CCDC42B
2372. FAM196B
2373. FLJ33581
2374. LOC100131347
2375. CT45A4
2376. LOC100506085
2377. LOC100270804
2378. LOC728218
2379. GOLGA6L7P
2380. CCDC147
2381. MTERFD3
2382. TMEM27
2383. KIAA1875
2384. FLJ31662
2385. B3GNT1
2386. LOC100129148
2387. LOC100130964
2388. LOC100130275
2389. ZHX1-C8ORF76
2390. LOC100288198
2391. UTS2D
2392. LOC645212
2393. C1QTNF9B-AS1
2394. LOC100129216
2395. C7orf10
2396. LOC100128946
2397. FAM35A
2398. PRKRIR
2399. LOC100240735
2400. UNQ6494
2401. ATP5SL
2402. SGK223
2403. LOC100506178
2404. LOC100616530
2405. SNORD119
2406. T
2407. LOC284632
2408. RNU6-19
2409. LOC100128361
2410. LOC100288346
2411. LOC284578
2412. AATK-AS1
2413. FLJ35424
2414. PTGER4P2-CDK2AP2P2
2415. LOC728012
2416. PNMAL1
2417. DEFB109P1
2418. MIR3676
2419. 2-Mar
2420. SNAR-C3
2421. MFSD4
2422. LOC100505715
2423. LOC100506714
2424. C5orf20
2425. LOC100190986
2426. BRD7P3
2427. MGC12916
2428. HOXB-AS5
2429. MGC32805
2430. LOC388499
2431. 8-Sep
2432. TMEM194A
2433. LOC100289511
2434. GLT25D2
2435. LOC100127983
2436. ACN9
2437. SNORA50
2438. WBSCR28
2439. FLJ36777
2440. LOC149373
2441. TMEM55A
2442. FLJ25328
2443. KIAA1804
2444. C6orf25
2445. LOC728190
2446. ADCK3
2447. FAM159B
2448. LILRA3
2449. SELRC1
2450. C1orf204
2451. SGOL2
2452. OR8U8
2453. 15-Sep
2454. CENPC1
2455. GAGE5
2456. GAREM
2457. C11orf31
2458. LOC401134
2459. KIAA0947
2460. GLTPD1
2461. LOC148709
2462. LOC150935
2463. C8orf69
2464. HPVC1
2465. CCDC67
2466. KIAA0754
2467. LOC284801
2468. SGK196
2469. FLJ41941
2470. LOC339593
2471. C6orf147
2472. DKFZP586I1420
2473. CENPVP1
2474. TNFAIP8L2-SCNM1
2475. SMEK3P
2476. 1-Mar
2477. LOC286094
2478. LOC101059948
2479. C14orf101
2480. ADRBK2
2481. LOC100093631
2482. SELO