

Gene list, biased for failed cluster, ranked by expression ratio

index	gene	Qvalue	expr. ratio
0	45 Ptn	1.41E-123	1.8238716
1	24 Cnn1	2.36E-154	1.6329619
2	48 Thy1	1.88E-121	1.358164
3	134 Spp1	1.91E-56	1.3159794
4	85 Penk	1.54E-83	1.3023243
5	3 Cd248	0	1.2481177
6	144 Cxcl14	5.66E-55	1.1522155
7	4 Nrp1	5.56E-300	1.1191838
8	13 S100a4	1.05E-198	1.025448
9	7 Lrrc32	1.44E-258	1.008577
10	399 Des	3.57E-24	0.96018034
11	20 Serpine1	3.30E-165	0.88035834
12	202 Postn	2.23E-41	0.86265266
13	35 Col3a1	3.76E-137	0.85800046
14	28 Lbh	6.01E-148	0.8578299
15	11 Col1a2	9.91E-213	0.8183242
16	33 Ncam1	9.13E-140	0.8152544
17	122 Crabp1	2.38E-60	0.80788314
18	15 Col6a2	1.66E-195	0.80260175
19	0 Bgn	0	0.7877368
20	53 Itga5	2.49E-118	0.7792204
21	17 Col6a1	2.48E-174	0.7771924
22	54 Mmp2	3.65E-118	0.76958513
23	55 Gm2115	9.63E-118	0.75683784
24	91 Grem2	3.20E-79	0.74670357
25	34 Col6a3	1.65E-138	0.73729974
26	27 Cspg4	3.68E-148	0.73649156
27	14 Timp1	3.05E-197	0.7326941
28	37 Serpinf1	4.82E-134	0.7303582
29	62 Csf1	1.78E-104	0.7217334
30	36 Alcam	4.52E-134	0.71518016
31	57 Tagln	2.51E-116	0.7075857
32	22 Fbln2	1.46E-160	0.702906
33	63 Tm4sf1	1.43E-103	0.69748867
34	5 Vim	9.17E-273	0.68374294
35	201 Dkk2	1.97E-41	0.65614265
36	6 Sparc	6.72E-259	0.6560036
37	771 Dlk1	3.96E-13	0.6417561
38	51 Adam19	3.53E-120	0.62459457
39	39 Tnc	1.26E-132	0.6240308
40	49 Fbn1	2.69E-121	0.61997455
41	18 Col1a1	8.52E-171	0.61778086
42	19 Loxl1	1.10E-168	0.6161147

43	38 Col5a2	9.27E-133	0.6103807
44	209 Adm	6.50E-40	0.5763153
45	68 Cpxm1	8.51E-97	0.57462585
46	71 Anxa1	1.56E-93	0.5688677
47	181 Tgfb3	5.71E-45	0.5666639
48	112 Csrp1	8.77E-66	0.5610813
49	188 Gata3	4.54E-44	0.5528447
50	72 Oaf	6.58E-93	0.54024976
51	61 Thbs1	4.97E-108	0.5310837
52	87 Col12a1	1.15E-82	0.52885324
53	126 Pappa	1.93E-58	0.5268087
54	77 Meg3	3.94E-88	0.52371126
55	305 Aqp1	1.82E-30	0.52078015
56	199 Lmod1	1.08E-41	0.5200748
57	286 Tgfb1	9.06E-32	0.5102921
58	150 Cdc42ep3	1.68E-53	0.51023996
59	118 Slit2	6.57E-63	0.50813824
60	119 Htr1b	2.37E-62	0.50254864
61	86 Wisp1	2.66E-83	0.5011394
62	198 Sfrp1	1.04E-41	0.49819475
63	43 Col5a1	1.27E-126	0.49338788
64	90 Raph1	1.68E-79	0.49237692
65	113 Flnc	1.10E-65	0.48868477
66	89 Zyx	1.28E-79	0.48828712
67	67 Mrc2	3.54E-97	0.48713714
68	78 Cdh11	7.34E-88	0.4850554
69	423 Acta2	5.68E-23	0.47463503
70	40 Fstl1	4.17E-132	0.47243315
71	285 Ptgs2	6.27E-32	0.46708968
72	255 Myl9	2.99E-34	0.46389252
73	186 Jade1	2.85E-44	0.46377715
74	88 Fscn1	3.32E-80	0.46188933
75	149 Prkcdp	1.14E-53	0.45980817
76	152 Col8a1	8.76E-53	0.45545954
77	125 Malat1	8.70E-59	0.45242223
78	501 H19	5.99E-20	0.44694963
79	1256 Acta1	4.30E-08	0.44613057
80	111 Vcl	5.99E-66	0.4458287
81	153 Cyp51	2.35E-52	0.44310555
82	179 Soat1	5.72E-46	0.44224256
83	105 Lpp	8.78E-68	0.43611687
84	116 Tpm2	3.53E-64	0.4332249
85	160 Tubb2b	3.23E-51	0.43243715
86	140 Pdpn	1.04E-55	0.4322164
87	94 Colec12	1.45E-77	0.43221104

88	103	Prrx1	5.55E-68	0.43146
89	475	Cemip	1.05E-20	0.4243028
90	282	Gpc3	2.70E-32	0.4238794
91	123	Nptx2	1.32E-59	0.41840866
92	99	Rbms3	2.02E-69	0.41379163
93	124	Loxl3	1.80E-59	0.41327387
94	213	Enah	3.82E-39	0.4124993
95	233	Efemp1	4.23E-37	0.40799835
96	130	Ebf1	5.19E-57	0.40690047
97	465	Mcam	2.41E-21	0.40682754
98	205	Mfap5	1.26E-40	0.4047479
99	932	Igf2	2.93E-11	0.40354636
100	258	Tns1	4.33E-34	0.40208957
101	161	Arhgdib	3.55E-51	0.39763013
102	187	Mfap4	2.86E-44	0.39639258
103	84	Rcn3	5.55E-84	0.3937679
104	93	Slc6a6	1.14E-77	0.38734463
105	148	Fam198b	4.60E-54	0.38519993
106	114	Ptpn	1.11E-65	0.38472593
107	220	Gas6	1.58E-38	0.38429973
108	514	Map1b	1.62E-19	0.38412854
109	536	Cst3	1.03E-18	0.38205364
110	447	Thbs2	3.19E-22	0.38138756
111	223	Cav1	1.90E-38	0.3801639
112	154	Fermt2	3.47E-52	0.38008633
113	462	CellTag.UTR	2.07E-21	0.37912634
114	208	Tmem119	6.01E-40	0.3761352
115	121	Mfap2	5.74E-61	0.37433973
116	197	Dnm3os	1.00E-41	0.37329692
117	170	Cyth3	1.57E-48	0.3731016
118	135	Fosl2	2.07E-56	0.37272042
119	191	Jun	5.80E-43	0.36995006
120	92	Efemp2	6.46E-79	0.3699454
121	173	Unc5b	2.08E-47	0.36531135
122	310	Scd2	4.69E-30	0.36277592
123	127	Trib2	3.48E-58	0.36250812
124	50	Lmna	6.00E-121	0.36162898
125	1366	Ctla2a	2.73E-07	0.36050713
126	225	Dkk3	3.11E-38	0.3588643
127	612	Loxl2	1.87E-16	0.35863966
128	164	Abcg2	4.90E-50	0.35733333
129	175	Sh3kbp1	2.38E-47	0.3573132
130	165	Pcdh19	5.02E-50	0.35332334
131	137	Ly6e	4.85E-56	0.34641242
132	352	Thsd7a	3.53E-27	0.34628728

133	490	Flt1	2.05E-20	0.34565985
134	605	Gja1	1.16E-16	0.34541053
135	485	Errfi1	1.49E-20	0.34402236
136	1035	Fmod	5.96E-10	0.34354466
137	239	Crabp2	1.63E-36	0.3433804
138	158	Zeb2	1.26E-51	0.3406958
139	98	Pls3	7.08E-70	0.34046978
140	131	Atp2b1	5.34E-57	0.33988494
141	263	Htra1	1.05E-33	0.3382043
142	193	Metnl	1.25E-42	0.33817205
143	226	B4galt5	4.66E-38	0.3361874
144	174	Pdgfrb	2.13E-47	0.33469802
145	476	Lrrc15	1.06E-20	0.3346758
146	2474	Ankrd1	0.00203655	0.3333802
147	163	Tead1	2.34E-50	0.32508788
148	171	Slit3	3.95E-48	0.32494742
149	623	Gjb2	2.94E-16	0.32450882
150	280	Wbscr17	2.07E-32	0.3234061
151	145	Ehd2	8.52E-55	0.32264158
152	172	Fgfr1	7.35E-48	0.32260156
153	283	Tnfaip2	2.85E-32	0.32052046
154	242	Fdps	2.47E-36	0.31816074
155	987	Gpx3	1.26E-10	0.31786263
156	953	Fst	5.61E-11	0.31621605
157	79	Serpinh1	3.34E-86	0.31495076
158	633	Fhl1	6.00E-16	0.312157
159	42	Lgals1	2.78E-127	0.31191984
160	222	Lsp1	1.71E-38	0.31113645
161	253	Klhdc8a	7.35E-35	0.31096023
162	230	Man2a1	2.42E-37	0.31036982
163	1382	Hmgcs1	3.84E-07	0.30952325
164	200	St3gal1	1.62E-41	0.30946094
165	259	Foxs1	5.26E-34	0.3091098
166	228	Tubb6	6.43E-38	0.3086969
167	847	Nptx1	2.42E-12	0.30818042
168	274	Col5a3	1.15E-32	0.3079737
169	596	Akap12	7.81E-17	0.30755326
170	320	Snai1	1.17E-29	0.30294997
171	301	Celf2	1.29E-30	0.3017369
172	241	Hs2st1	2.45E-36	0.30079088
173	509	Ngfrap1	1.05E-19	0.30005687
174	342	Mmp23	8.31E-28	0.29908025
175	760	Insig1	2.26E-13	0.2950147
176	947	Lum	4.68E-11	0.29419822
177	410	Sacs	8.78E-24	0.29312345

178	245	Ifitm3	5.66E-36	0.2922746
179	334	Inhba	2.57E-28	0.2914782
180	459	Igfbp6	1.55E-21	0.28607434
181	269	Fasn	6.25E-33	0.2856297
182	192	Itprl2	9.16E-43	0.28503585
183	206	Pdrg1	2.65E-40	0.2843864
184	3277	Cck	0.02447497	0.28300172
185	433	Has2	1.11E-22	0.28160593
186	383	Dpysl3	4.76E-25	0.28148848
187	353	Nuak1	3.99E-27	0.2808274
188	494	Idi1	2.76E-20	0.28022888
189	217	Map1a	7.51E-39	0.27921367
190	471	Gpc4	4.32E-21	0.27729094
191	227	Mxra8	6.43E-38	0.2766231
192	582	Trps1	2.00E-17	0.27450228
193	133	Ckap4	1.44E-56	0.27141258
194	588	Msmo1	3.21E-17	0.27110505
195	232	Hcfc1r1	3.21E-37	0.27066147
196	214	Apbb1ip	4.03E-39	0.26950926
197	303	Aebp1	1.47E-30	0.26921844
198	622	Chst2	2.90E-16	0.2688174
199	296	Tpbg	6.86E-31	0.26880425
200	337	9-Sep	3.82E-28	0.26722333

Gene list, biased for the reprogrammed cluster, ranked by expression ratio

index	gene	Qvalue	expr. ratio
0	2 FoxA1.HNF4a	0	-1.822802
1	76 Igfbp2	3.94E-88	-1.2413404
2	1 2200002D01l	0	-1.229738
3	21 Mt2	1.97E-161	-1.084298
4	74 Areg	2.84E-90	-1.0361192
5	25 Rbp1	1.60E-151	-0.93838835
6	23 Anxa8	2.97E-160	-0.903612
7	80 Krt19	1.45E-85	-0.8899765
8	10 Gsto1	4.61E-213	-0.87239087
9	60 Ldhb	6.70E-111	-0.8289341
10	30 Lox	1.20E-145	-0.816883
11	294 Col2a1	5.31E-31	-0.8060583
12	9 Aldh2	2.16E-246	-0.7881032
13	444 Clu	2.52E-22	-0.7666078
14	83 Mt1	5.42E-84	-0.7599184
15	44 S100a13	1.04E-125	-0.7391748
16	615 Mmp13	2.13E-16	-0.7217105
17	16 Cgref1	1.55E-183	-0.6831571
18	31 Fbln5	1.46E-143	-0.67679954
19	12 Gss	2.79E-199	-0.65645045
20	180 Igfbp4	4.67E-45	-0.61790955
21	81 Mdm2	1.95E-85	-0.61746806
22	56 Dstn	1.78E-116	-0.6053551
23	46 Cstb	1.70E-123	-0.6032603
24	66 Cd9	1.07E-98	-0.5967747
25	41 Stard10	1.22E-127	-0.59585434
26	32 Cib1	2.46E-143	-0.58207786
27	1092 Nupr1	3.09E-09	-0.5615745
28	143 Mgp	3.45E-55	-0.56002825
29	75 Ppa1	3.78E-89	-0.5597874
30	109 Gxylt2	2.90E-66	-0.5597813
31	65 Mgst3	6.03E-100	-0.55190486
32	82 Rdh10	2.17E-85	-0.5514845
33	26 Spr	2.86E-150	-0.5474331
34	1138 Angptl4	6.78E-09	-0.52983916
35	236 Ngf	9.47E-37	-0.52960885
36	2048 Col10a1	0.0002505	-0.5202485
37	132 Apoe	1.43E-56	-0.50946575
38	117 Ctsl	4.52E-64	-0.5073809
39	59 Siva1	4.57E-112	-0.5048584
40	69 Slc25a1	3.53E-95	-0.5035025
41	104 Uap1l1	7.17E-68	-0.50345385
42	8 S100a6	1.42E-256	-0.50026613

43	73 Paics	2.27E-92	-0.49689636
44	115 Timp3	3.51E-65	-0.49274033
45	293 Ereg	5.12E-31	-0.4909944
46	506 Il33	7.21E-20	-0.48980677
47	156 Cyp1b1	4.06E-52	-0.48527884
48	284 Ndnf	3.29E-32	-0.47728822
49	120 Dcxr	7.97E-62	-0.47687972
50	64 Ghitm	1.76E-102	-0.47292095
51	176 Fam101b	3.04E-47	-0.46386188
52	95 Spint2	7.23E-75	-0.46235123
53	454 Tnfrsf11b	7.38E-22	-0.4623101
54	128 Plaur	4.88E-58	-0.45875257
55	834 Msln	1.71E-12	-0.44877687
56	167 Aif1l	3.12E-49	-0.4481288
57	401 S100a7a	4.34E-24	-0.43939766
58	110 Crip2	3.38E-66	-0.43615472
59	139 Fam213a	8.96E-56	-0.42735252
60	231 Lif	2.42E-37	-0.42679176
61	52 Anxa5	5.99E-119	-0.42459717
62	58 Gpx4	1.91E-115	-0.41885564
63	936 Apoa1	3.41E-11	-0.41772822
64	189 Hes6	7.56E-44	-0.4118575
65	2772 Mmp3	0.00606599	-0.40508327
66	218 Ugp2	1.06E-38	-0.40356794
67	47 Rps27l	1.42E-121	-0.4008222
68	138 Col11a1	5.91E-56	-0.3985868
69	146 Tuft1	2.71E-54	-0.39795873
70	70 Anxa3	6.75E-94	-0.39690062
71	1239 Krt18	3.39E-08	-0.3927661
72	151 Bpgm	8.40E-53	-0.3904912
73	155 Tmcc3	3.49E-52	-0.38841185
74	183 Tshz1	1.82E-44	-0.38309786
75	29 Tceb2	1.99E-146	-0.38212612
76	178 Sdc1	4.74E-46	-0.37812486
77	453 Hsp90b1	5.65E-22	-0.3725172
78	194 Arhgef5	1.25E-42	-0.3692264
79	169 Mcm6	6.17E-49	-0.36828074
80	304 Parm1	1.66E-30	-0.36680385
81	311 Agpat4	6.08E-30	-0.36369026
82	262 Phlda1	7.52E-34	-0.36279783
83	428 Dusp1	9.22E-23	-0.3615675
84	1331 Kng1	1.56E-07	-0.35995382
85	548 Hspa5	2.25E-18	-0.35562932
86	207 Hacd2	3.02E-40	-0.3552346
87	129 Hint1	1.25E-57	-0.35099703

88	247	Rictor	6.78E-36	-0.3500812
89	162	Chp1	3.63E-51	-0.34938404
90	102	Calm1	4.07E-69	-0.34420595
91	327	Tspan13	1.56E-28	-0.34344518
92	212	Fam43a	1.20E-39	-0.34190544
93	107	Mlec	1.24E-66	-0.34102064
94	307	Ezr	2.40E-30	-0.33616298
95	417	Gadd45g	4.04E-23	-0.33469403
96	203	Tmtc3	4.83E-41	-0.3336519
97	271	Flnb	8.52E-33	-0.33283192
98	380	Junb	3.88E-25	-0.33101994
99	579	Pgf	1.46E-17	-0.3306536
100	238	Laptn4b	1.53E-36	-0.3290701
101	184	Slc9a3r1	2.44E-44	-0.32760823
102	240	Fam107b	2.19E-36	-0.32222778
103	1941	U90926	0.00012705	-0.3216454
104	347	Amotl2	1.56E-27	-0.31999305
105	893	Cfap46	8.66E-12	-0.31936577
106	216	Avpi1	6.03E-39	-0.31717446
107	295	Marcksl1	5.48E-31	-0.31160176
108	393	Col27a1	1.62E-24	-0.31111318
109	100	Edf1	3.81E-69	-0.3097719
110	142	Cpe	2.48E-55	-0.30722892
111	394	Trim7	1.75E-24	-0.30664322
112	221	Rapgef6	1.60E-38	-0.30450535
113	332	Plxdc2	2.18E-28	-0.30274883
114	190	Calml4	1.63E-43	-0.30230966
115	556	Upk1b	3.19E-18	-0.301745
116	106	Prdx1	5.86E-67	-0.3015024
117	479	Slc20a1	1.26E-20	-0.30059594
118	456	F11r	1.17E-21	-0.29978403
119	185	Ago2	2.52E-44	-0.29923826
120	277	Etnk1	1.32E-32	-0.29495057
121	606	Olfml2b	1.16E-16	-0.29458803
122	315	Cltb	6.98E-30	-0.29402167
123	244	Sulf2	5.06E-36	-0.29390907
124	373	Ano1	4.20E-26	-0.29342967
125	157	Cox7c	1.08E-51	-0.29284734
126	251	Cd109	2.02E-35	-0.29077953
127	96	Tmsb10	4.45E-72	-0.2900869
128	391	S100a1	1.39E-24	-0.2894296
129	375	Pdia6	1.04E-25	-0.28524637
130	268	Ctsz	3.77E-33	-0.2844838
131	299	Fbln1	7.90E-31	-0.28295392
132	355	Spats2l	6.43E-27	-0.2822328

133	313 Fam210b	6.92E-30	-0.2805856
134	250 Ajuba	2.01E-35	-0.28017002
135	318 Tkfc	1.10E-29	-0.27937746
136	450 Abhd2	4.59E-22	-0.27897426
137	564 Creld2	6.18E-18	-0.27862218
138	377 Nrip1	3.00E-25	-0.2779419
139	389 Lipa	1.23E-24	-0.2776003
140	761 Nfatc1	2.28E-13	-0.27731377
141	616 Sod3	2.35E-16	-0.27703407
142	397 Tubb4b	3.31E-24	-0.2769201
143	234 Golim4	7.41E-37	-0.27640727
144	159 Cox6b1	1.85E-51	-0.27596325
145	136 Atp5k	2.81E-56	-0.27530548
146	486 Pid1	1.49E-20	-0.27281085
147	252 Hras	4.78E-35	-0.2727933
148	257 Akr7a5	3.42E-34	-0.27249724
149	290 Cdk2ap2	3.60E-31	-0.2685404
150	686 Hes1	1.36E-14	-0.26844677
151	256 Ubb	3.41E-34	-0.2679827
152	326 Plekhh2	1.47E-28	-0.26691464
153	275 Map1lc3b	1.17E-32	-0.2650405
154	429 Vnn1	9.68E-23	-0.26478797
155	297 Nbeal1	6.95E-31	-0.26458538
156	449 Tpp1	3.71E-22	-0.2642808
157	166 Eif6	5.63E-50	-0.26425403
158	182 Ccng1	1.79E-44	-0.26422945
159	237 Ppp2r1a	1.00E-36	-0.26385182
160	358 Ctsh	7.92E-27	-0.26293796
161	569 Tnfrsf23	7.58E-18	-0.26253736
162	587 H2-K1	2.50E-17	-0.26210365
163	699 C2cd4a	2.49E-14	-0.26170114
164	371 Prdx6	3.06E-26	-0.261117
165	108 Uqcr11	1.30E-66	-0.26035556
166	409 Hspa13	8.50E-24	-0.25976035
167	348 Ndufb6	2.23E-27	-0.25948918
168	97 Ndufa2	1.93E-70	-0.25896204
169	195 Uqcrh	3.63E-42	-0.25706685
170	362 Mcc	9.47E-27	-0.25595108
171	744 Epha4	1.16E-13	-0.25520977
172	243 Arf3	3.08E-36	-0.25390142
173	828 Trp53inp1	1.62E-12	-0.25341845
174	336 Atp6v1d	2.95E-28	-0.25293767
175	329 Eif2b2	1.78E-28	-0.25238803
176	276 Vill	1.20E-32	-0.25212386
177	560 Lrpap1	4.74E-18	-0.25207666

178	498 Mtap	4.21E-20	-0.25189131
179	101 Cox4i1	3.94E-69	-0.25144494
180	314 Ctnnb1	6.92E-30	-0.25084746
181	279 Dst	1.91E-32	-0.25068855
182	323 Scp2	2.40E-29	-0.25067884
183	147 Rps16	4.59E-54	-0.25001
184	177 Tnfrsf12a	6.04E-47	-0.2496235
185	427 Ptk2	9.14E-23	-0.2481727
186	388 Atp6v0b	1.17E-24	-0.24787818
187	561 C1s1	4.97E-18	-0.24711734
188	367 Dnajb6	1.26E-26	-0.2468107
189	598 Hs6st2	8.42E-17	-0.24649279
190	330 Vamp8	1.88E-28	-0.24620718
191	617 Pygb	2.46E-16	-0.24555132
192	229 Cox7a2	2.27E-37	-0.24436952
193	414 Twsg1	2.12E-23	-0.24389583
194	266 G3bp2	1.44E-33	-0.24382395
195	363 Txn1	1.05E-26	-0.24378748
196	437 Lrp10	1.75E-22	-0.24219322
197	1209 Cxcl15	2.45E-08	-0.24176428
198	504 Elf4	6.64E-20	-0.24061546
199	500 Tmbim4	5.68E-20	-0.24043004
200	496 Cd82	3.24E-20	-0.23948185