

Table 3. Gene Expression Profile in E13.5 CR Cells

No.	gene name	abbreviated name	GenBank No.	category	ratio (P2/E13.5)	E13.5		
						ratio (CR/non-CR)	signal	
							CR	non-CR
1	LIM homeobox protein 1	Lhx1	NM_008498	transcription regulator/nuclear protein	0.30	323	2431	8
2	transformation related protein 73	p73	AK014503	transcription regulator/nuclear protein	0.76	51	5298	104
3	early B-cell factor 3	Ebf3	AK014058	transcription regulator/nuclear protein	0.59	47	4141	88
4	p21(cyclin-dependent kinase inhibitor 1A)	p21	AK007630	transcription regulator/nuclear protein	0.22	29	5090	176
5	LIM homeobox protein 5	Lhx5	NM_008499	transcription regulator/nuclear protein	0.71	16	1534	96
6	early B-cell factor 2	Ebf2	NM_010095	transcription regulator/nuclear protein	0.19	14	3253	225
7	RNA binding motif, single stranded interacting protein 1	Rbms1	NM_020296	transcription regulator/nuclear protein	1.54	8.1	1033	127
8	nuclear receptor subfamily 2, group F, member 2	Nr2f2	U07635	transcription regulator/nuclear protein	0.64	8.0	3438	427
9	zinc finger protein of the cerebellum 5	Zic5	BM199323	transcription regulator/nuclear protein	0.56	7.2	1599	223
10	bruno-like 4, RNA binding protein	Brunol4	BB748921	transcription regulator/nuclear protein	1.60	6.8	1580	231
11	zinc finger protein of the cerebellum 1	Zic1	BB361162	transcription regulator/nuclear protein	0.95	6.3	4862	772
12	forkhead box O3	Foxo3	BB364488	transcription regulator/nuclear protein	0.63	6.2	1825	294
13	kruppel-like factor 7	Klf7	AF338369	transcription regulator/nuclear protein	0.78	6.0	2885	485
14	histone deacetylase 11	Hdac11	BC016208	transcription regulator/nuclear protein	0.97	5.4	1728	322
15	testis expressed gene 264	Tex264	BC002248	extracellular signaling molecule	1.2	76	2371	31
16	glia derived nexin precursor	Gdn	NM_009255	extracellular signaling molecule	0.06	36	3508	98
17	reelin	Reln	NM_011261	extracellular signaling molecule	0.90	18	17912	1019
18	matrix metalloproteinase 2	Mmp2	BF147716	extracellular signaling molecule	0.58	11	1868	172
19	sulfatase 2	Sulf2	AK008108	extracellular signaling molecule	0.11	6.3	1902	300
20	EGF-like repeats and discordin I-like domains 3	Edil3	BB377340	extracellular signaling molecule	2.4	6.1	1087	179
21	thrombospondin-like gene homolog	Tslh	BG067392	extracellular signaling molecule	0.11	6.1	1252	207
22	four jointed box 1	Fjx1	NM_010218	extracellular signaling molecule	0.51	5.1	2695	530
23	calcium channel, voltage-dependent, alpha 2/delta subunit 2	Cacna2d2	AF247139	receptor/channel/transmembrane protein	0.91	113	8995	80
24	unc-5 homolog 2	Unc5h2	BG065285	receptor/channel/transmembrane protein	1.0	23	3247	142
25	calcium channel, voltage dependent, alpha 2/delta subunit 3	Cacna2d3	NM_009785	receptor/channel/transmembrane protein	0.98	16	2169	132
26	sodium channel, voltage-gated beta-3 subunit	Scn3b	BE951842	receptor/channel/transmembrane protein	1.0	14	4523	333
27	high temperature-Induced Dauer formation HID-1	Hid1	BC024617	receptor/channel/transmembrane protein	0.92	13	1294	103
28	chemokine (C-X-C motif) receptor 4	Cxcr4	D87747	receptor/channel/transmembrane protein	0.98	12	1081	87
29	lymphocyte antigen 6 complex, locus H	Ly6h	NM_011837	receptor/channel/transmembrane protein	1.0	9.9	4442	448
30	antigen identified by monoclonal antibody MRC OX-2	Mox2	AF004023	receptor/channel/transmembrane protein	2.7	9.8	2282	233
31	plexin D1	Plxd1	BC019530	receptor/channel/transmembrane protein	0.88	9.0	2544	282
32	tumor necrosis factor receptor superfamily, member 21	Tnfrsf21	BG972377	receptor/channel/transmembrane protein	1.4	7.4	2006	271
33	neurotrimin	Hnt	AK018085	receptor/channel/transmembrane protein	1.7	7.1	1089	154
34	BNP receptor	Binpr	AK009669	receptor/channel/transmembrane protein	1.2	7.0	2085	297
35	potassium channel, subfamily K, member 2	Kcnk2	NM_010607	receptor/channel/transmembrane protein	1.3	6.7	1542	231
36	contactin associated protein-like 2	Cntnap2	BE651445	receptor/channel/transmembrane protein	2.6	6.0	2226	371
37	chemokine orphan receptor 1	Cmkor1	BC015254	receptor/channel/transmembrane protein	0.01	5.8	3138	544
38	type I transmembrane receptor (seizure-related protein)	Psk1	BC011475	receptor/channel/transmembrane protein	1.3	5.7	1321	230
39	calcium channel, voltage-dependent, gamma subunit 4	Cacng4	BB333636	receptor/channel/transmembrane protein	0.12	5.6	2138	382
40	glycerophosphodiester phosphodiesterase 3 homolog	Gp3h	BC024955	receptor/channel/transmembrane protein	0.88	5.6	1446	260
41	delta/notch-like EGF-related receptor	Dner	AF370126	receptor/channel/transmembrane protein	0.89	5.3	3576	675
42	protein C20orf103 homolog precursor	6330527O06Rik	BC004791	trafficking/organelle protein	0.01	107	1257	12
43	sialyltransferase 7E	Siat7e	AB028840	trafficking/organelle protein	0.75	32	1899	59
44	proprotein convertase subtilisin/kexin type 1 inhibitor	Pcsk1n	AF181560	trafficking/organelle protein	2.2	13	2317	179
45	calretinin	Calr	BC017646	intracellular signaling molecule	1.8	109	5080	47
46	mab-21-like 1	Mab21l1	AF228913	intracellular signaling molecule	0.80	61	1330	22
47	down syndrome critical region gene 1-like 1	Dscr1l1	AB061524	intracellular signaling molecule	0.78	36	7656	214
49	protein kinase, cAMP dependent regulatory, type I beta	Prkar1b	BB274009	intracellular signaling molecule	2.4	10	2925	281
50	SPRY domain-containing SOCS box protein SSB-1	Ssb1	AI596360	intracellular signaling molecule	0.25	6.9	1804	263
51	calcium regulated heat stable protein 1	Carhsp1	NM_025821	intracellular signaling molecule	0.23	6.7	3517	525
52	dapper homolog 1, antagonist of beta-catenin	Dact1	NM_021532	intracellular signaling molecule	0.59	6.3	5485	869
53	adenylate cyclase 2	Adecy2	AV025455	intracellular signaling molecule	1.9	5.7	1492	260
54	stathmin-like 2	Stmn2	BM946869	intracellular signaling molecule	1.5	5.7	6620	1162
55	CXXC finger 5	Cxxc5	NM_133687	intracellular signaling molecule	0.76	5.6	3391	604
56	desmoplakin	Dsp	AV297961	cytoskeletal protein	0.70	27	2590	97
57	erythrocyte protein band 4.1-like 4a	Epb4.114a	NM_013512	cytoskeletal protein	0.80	15	1381	94
58	microtubule-associated protein tau	tau	M18775	cytoskeletal protein	1.4	13	2175	162
48	stathmin-like 4	Stmn4	NM_019675	cytoskeletal protein	0.42	8.8	3326	376
59	growth associated protein 43	Gap43	BB622036	cytoskeletal protein	1.4	8.5	8099	956
60	actin-like 6	Actl6	NM_031404	cytoskeletal protein	0.58	7.3	2305	317
61	ankyrin 3, epithelial	Ank3	BC021657	cytoskeletal protein	0.85	6.6	2387	359
62	internexin neuronal intermediate filament protein, alpha	Ina	BC018383	cytoskeletal protein	0.52	6.4	5049	788
63	3-ketoacyl-CoA thiolase B	Kctb	BC019882	metabolism	0.92	16	1208	75

Sixty-three genes which showed more than 5 times increase in CR cells over non-CR cells at E13.5 are listed. For other explanations, see Fig. 2.