

### Supplementary Table S2-BCC Transcripts

Entrez GeneID	Gene Symbol	Gene Description	fold change
21333	Tac1	Tachykinin 1	13.8
13175	Dcamk1	Doublecortin and calcium/calmodulin-dependent protein kinase-like 1	6.53
68730	Dus1l	Dihydrouridine synthase 1-like ( <i>S. cerevisiae</i> )	5.88
16451	Jak1	Janus kinase 1	4.12
215351	Senp6	SUMO/sentrin specific peptidase 6	3.82
216618	Ccdc104	Coiled-coil domain containing 104	3.53
13205	Ddx3x	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 3, X-linked	3.49
15251	Hif1a	Hypoxia inducible factor 1, alpha subunit	3.26
51810	Hnrpu	Heterogeneous nuclear ribonucleoprotein U	3.16
21808	Tgfb2	Transforming growth factor, beta 2	3.13
12916	Crem	CAMP responsive element modulator	3.09
101490	Inpp5f	Inositol polyphosphate-5-phosphatase F	3.05
66912	Bzw2	Basic leucine zipper and W2 domains 2	3.02
11938	Atp2a2	ATPase, Ca <sup>++</sup> transporting, cardiac muscle, slow twitch 2	3.01
16573	Kif5b	Kinesin family member 5B	3
52502	Carhsp1	Calcium regulated heat stable protein 1	2.99
72289	Malat1	Metastasis associated lung adenocarcinoma transcript 1 (non-coding RNA)	2.98
17112	Tm4sf1	Transmembrane 4 superfamily member 1	2.96
26950	Vsnl1	Visinin-like 1	2.94
18619	Enk	Enk	2.94
170719	Oxr1	Oxidation resistance 1	2.94
15519	Hsp90aa1	Heat shock protein 90kDa alpha (cytosolic), class A member 1	2.88
218952	Plekhc1	Pleckstrin homology domain containing, family C (with FERM domain) member 1	2.88
93762	Smarca5	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 5	2.85

19983	Rpl5	Ribosomal protein L5	2.82
18148	Npm1	Nucleophosmin 1	2.78
53379	Hnrpa2b1	Heterogeneous nuclear ribonucleoprotein A2/B1	2.77
215449	Rap1b	RAS related protein 1b	2.77
319448	Fndc3a	Fibronectin type III domain containing 3a	2.75
13684	Eif4e	Eukaryotic translation initiation factor 4E	2.75
20254	Scg2	Secretogranin II	2.74
13690	Eif4g2	Eukaryotic translation initiation factor 4, gamma 2	2.74
19346	Rab6	RAB6, member RAS oncogene family	2.73
15481	Hspa8	Heat shock protein 8	2.73
71799	Ptcd1	Pentatricopeptide repeat domain 1	2.71
76299	Txndc4	Thioredoxin domain containing 4 (endoplasmic reticulum)	2.7
380684	Nefh	Neurofilament, heavy polypeptide	2.67
67154	Mtdh	Metadherin	2.67
74117	Actr3	ARP3 actin-related protein 3 homolog (yeast)	2.66
22027	Hsp90b1	Heat shock protein 90kDa beta (Grp94), member 1	2.66
217869	Eif5	Eukaryotic translation initiation factor 5	2.61
56397	Morf4l2	Mortality factor 4 like 2	2.6
12653	Chgb	Chromogranin B	2.59
16412	Itgb1	Integrin beta 1 (fibronectin receptor beta)	2.59
57377	Gcs1	Glucosidase 1	2.59
67437	Ssr3	Signal sequence receptor, gamma	2.57
56258	Hnrph2	Heterogeneous nuclear ribonucleoprotein H2	2.57
71514	Sfpq	Splicing factor proline/glutamine rich (polypyrimidine tract binding protein associated)	2.56
19244	Ptp4a2	Protein tyrosine phosphatase 4a2	2.55
17149	Magoh	Mago-nashi homolog, proliferation-associated (Drosophila)	2.55

12313	Calm1	Calmodulin 1	2.54
52666	D10Ert610e	DNA segment, Chr 10, ERATO Doi 610, expressed	2.53
20102	Rps4x	Ribosomal protein S4, X-linked	2.53
75423	Arl5a	ADP-ribosylation factor-like 5A	2.53
110960	Tars	Threonyl-tRNA synthetase	2.51
212712	Satb2	Special AT-rich sequence binding protein 2	2.5
20005	Rpl9	Ribosomal protein L9	2.5
13681	Eif4a1	Eukaryotic translation initiation factor 4A1	2.49
18458	Pabpc1	Poly A binding protein, cytoplasmic 1	2.49
50771	Atp9b	ATPas, class II, type 9B	2.49
50933	Uchl3	Ubiquitin carboxyl-terminal esterase L3 (ubiquitin thiolesterase)	2.47
71994	Cnn3	Calponin 3, acidic	2.47
67529	Fgfr1op2	FGFR1 oncogene partner 2	2.46
330938	Dixdc1	DIX domain containing 1	2.46
326618	Tpm4	Tropomyosin 4	2.45
12469	Cct8	Chaperonin subunit 8 (theta)	2.44
21761	Morf4l1	Mortality factor 4 like 1	2.44
76709	Arpc2	Actin related protein 2/3 complex, subunit 2	2.44
15289	Hmgb1	High mobility group box 1	2.42
21873	Tjp2	Tight junction protein 2	2.42
50926	Hnrpd1	Heterogeneous nuclear ribonucleoprotein D-like	2.42
226757	Wdr26	WD repeat domain 26	2.41
53324	Narp	Narp	2.41
54375	Azin1	Antizyme inhibitor 1	2.41
226982	Eif5b	Eukaryotic translation initiation factor 5B	2.38
66882	Bzw1	Basic leucine zipper and W2 domains 1	2.38

56543	Kcnd3	Potassium voltage-gated channel, Shal-related family, member 3	2.38
13207	Ddx5	DEAD (Asp-Glu-Ala-Asp) box polypeptide 5	2.37
67160	Eef1g	Eukaryotic translation elongation factor 1 gamma	2.37
20848	Stat3	Signal transducer and activator of transcription 3	2.36
107508	Eprs	Glutamyl-prolyl-tRNA synthetase	2.36
66645	Pspc1	Paraspeckle protein 1	2.34
11843	Arf4	ADP-ribosylation factor 4	2.33
74838	Narg1	NMDA receptor-regulated gene 1	2.33
12314	Calm2	Calmodulin 2	2.32
67891	Rpl4	Ribosomal protein L4	2.31
15502	Dnaja1	DnaJ (Hsp40) homolog, subfamily A, member 1	2.31
22712	Zfp54	Zinc finger protein 54	2.31
59069	Tpm3	Tropomyosin 3, gamma	2.3
16211	Kpnb1	Karyopherin (importin) beta 1	2.28
13627	Eef1a1	Eukaryotic translation elongation factor 1 alpha 1	2.28
15382	Hnrpa1	Heterogeneous nuclear ribonucleoprotein A1	2.28
57874	Ptlad1	Protein tyrosine phosphatase-like A domain containing 1	2.28
19877	Rock1	Rho-associated coiled-coil containing protein kinase 1	2.27
14827	Pdia3	Protein disulfide isomerase associated 3	2.27
14852	Gspt1	G1 to S phase transition 1	2.27
13669	Eif3s10	Eukaryotic translation initiation factor 3, subunit 10 (theta)	2.26
18139	Zfml	Zinc finger, matrin-like	2.26
69276	Tloc1	Translocation protein 1	2.26
67302	Zc3h13	Zinc finger CCCH type containing 13	2.25
640703	EG640703	Predicted gene, EG640703	2.24
12461	Cct2	Chaperonin subunit 2 (beta)	2.24

66870	Serbp1	Serpine1 mRNA binding protein 1	2.23
76295	Atp11b	ATPase, Class VI, type 11B	2.22
78257	Lrrc9	Leucine rich repeat containing 9	2.22
15526	Hspa9a	Heat shock protein 9A	2.22
68240	Rpa3	Replication protein A3	2.22
56354	Dnajc7	DnaJ (Hsp40) homolog, subfamily C, member 7	2.21
19046	Ppp1cb	Protein phosphatase 1, catalytic subunit, beta isoform	2.21
13665	Eif2s1	Eukaryotic translation initiation factor 2, subunit 1 alpha	2.2
667666	LOC667666	Similar to reduced expression 2	2.19
26900	Ddx3y	DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, Y-linked	2.19
66105	Ube2d3	Ubiquitin-conjugating enzyme E2D 3 (UBC4/5 homolog, yeast)	2.19
19921	Rpl19	Ribosomal protein L19	2.18
108989	Tpr	Translocated promoter region	2.18
353172	Gars	Glycyl-tRNA synthetase	2.18
56445	Dnaja2	DnaJ (Hsp40) homolog, subfamily A, member 2	2.18
20384	Sfrs5	Splicing factor, arginine/serine-rich 5 (SRp40, HRS)	2.18
81898	Sf3b1	Splicing factor 3b, subunit 1	2.18
75302	Asx2	Additional sex combs like 2 (Drosophila)	2.18
66244	Sdccag1	Serologically defined colon cancer antigen 1	2.17
66335	Atp6v1c1	ATPase, H <sup>+</sup> transporting, lysosomal V1 subunit C1	2.17
232087	Mat2a	Methionine adenosyltransferase II, alpha	2.17
19652	Rbm3	RNA binding motif protein 3	2.17
28030	Gfm1	G elongation factor, mitochondrial 1	2.16
56403	Syncrip	Synaptotagmin binding, cytoplasmic RNA interacting protein	2.16
19896	Rpl10a	Ribosomal protein L10A	2.16
66177	Ubl5	Ubiquitin-like 5	2.15

216739	Acsl6	Acyl-CoA synthetase long-chain family member 6	2.15
276770	Eif5a	Eukaryotic translation initiation factor 5A	2.14
67869	Paip2	Polyadenylate-binding protein-interacting protein 2	2.14
22134	Tgoln1	Trans-golgi network protein	2.14
18738	Pitpna	Phosphatidylinositol transfer protein, alpha	2.13
17975	Ncl	Nucleolin	2.13
14618	Gjb1	Gap junction membrane channel protein beta 1	2.12
26413	Mapk1	Mitogen activated protein kinase 1	2.12
20191	Ryr2	Ryanodine receptor 2, cardiac	2.12
22589	Atrx	Alpha thalassemia/mental retardation syndrome X-linked homolog (human)	2.12
59027	Pbef1	Pre-B-cell colony-enhancing factor 1	2.11
12038	Bche	Butyrylcholinesterase	2.11
239528	Eif2c2	Eukaryotic translation initiation factor 2C, 2	2.1
381199	Tmem151	Transmembrane protein 151	2.09
26554	Cul3	Cullin 3	2.09
170763	Zfp87	Zinc finger protein 87	2.09
224902	Safb2	Scaffold attachment factor B2	2.09
17463	Psmc7	Proteasome (prosome, macropain) 26S subunit, non-ATPase, 7	2.09
11787	Apbb2	Amyloid beta (A4) precursor protein-binding, family B, member 2	2.08
76815	Ndp52	Nuclear domain 10 protein 52	2.08
12306	Anxa2	Annexin A2	2.08
69020	Zfp707	Zinc finger protein 707	2.08
67533	Ppifbp1	PTPRF interacting protein, binding protein 1 (liprin beta 1)	2.08
117198	Ivns1abp	Influenza virus NS1A binding protein	2.08
666841	LOC666841	Hypothetical protein LOC666841	2.08
19330	Rab18	RAB18, member RAS oncogene family	2.07

54214	Golga4	Golgi autoantigen, golgin subfamily a, 4	2.06
73274	Gpbp1	GC-rich promoter binding protein 1	2.06
22413	Wnt2	Wingless-related MMTV integration site 2	2.06
24109	Ubl3	Ubiquitin-like 3	2.06
240753	Plekha6	Pleckstrin homology domain containing, family A member 6	2.05
19876	Robo1	Roundabout homolog 1 (Drosophila)	2.05
269593	Luzp1	Leucine zipper protein 1	2.04
19656	Rbmxrt	RNA binding motif protein, X chromosome retrogene	2.04
22631	Ywhaz	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide	2.04
65960	Twsg1	Twisted gastrulation homolog 1 (Drosophila)	2.04
22004	Tpm2	Tropomyosin 2, beta	2.04
226757	Wdr26	WD repeat domain 26	2.03
12724	Clcn2	Chloride channel 2	2.03
229663	Csde1	Cold shock domain containing E1, RNA binding	2.03
71912	Jsrp1	Junctional sarcoplasmic reticulum protein 1	2.02
18412	Sqstm1	Sequestosome 1	2.02
54633	Pqbp1	Polyglutamine binding protein 1	2.02
12818	Col14a1	Procollagen, type XIV, alpha 1	2.02
22003	Tpm1	Tropomyosin 1, alpha	2.01
70356	St13	Suppression of tumorigenicity 13	2.01
66661	Srp72	Signal recognition particle 72	2.01
17755	Mtap1b	Microtubule-associated protein 1 B	2.01
19317	Qk	Quaking	2.01
22223	Uchl1	Ubiquitin carboxy-terminal hydrolase L1	2.01
319939	Tns3	Tensin 3	2.01
78134	Gpr23	G protein-coupled receptor 23	2.01

21857	Timp1	Tissue inhibitor of metalloproteinase 1	2.01
20226	Sars	Seryl-aminoacyl-tRNA synthetase	2.01
56347	Eif3s8	Eukaryotic translation initiation factor 3, subunit 8	2
101861	Ints4	Integrator complex subunit 4	2
24128	Xrn2	5'-3' exoribonuclease 2	2
56307	Metap2	Methionine aminopeptidase 2	1.99
12798	Cnn2	Calponin 2	1.99