

## Supplementary table1:

### Upregulated genes in CTSB<sup>+0</sup> versus wild-type co-cultures of primary tumor cells and BMDM

Genes were filtered according to the criteria: BH q-value  $\leq 0.05$  (unpaired Bayes t-test) and an effect size  $> 2$ . Probe ID: Affymetrix Identifier; FDR: False discovery rate.

Probe ID	Gene Description	Gene Symbol	Effect Size	FDR
10541496	microfibrillar associated protein 5	Mfap5	3.74	6.72E-06
10532346	purinergic receptor P2X, ligand-gated ion channel, 2	P2rx2	3.34	1.14E-02
10568536	carboxypeptidase X 2 (M14 family)	Cpxm2	3.20	2.40E-07
10404132	cytidine monophospho-N-acetylneuraminic acid hydroxylase	Cmah	3.13	1.06E-03
10529091	general transcription factor IIIC, polypeptide 2, beta	Gtf3c2	3.09	3.99E-06
10360415	gremlin 2 homolog, cysteine knot superfamily ( <i>Xenopus laevis</i> )	Grem2	3.09	4.24E-06
10604542	heparan sulfate 6-O-sulfotransferase 2	Hs6st2	3.03	6.37E-06
10581013	cadherin 11	Cdh11	2.97	3.68E-07
10555323	procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha polypeptide III	P4ha3	2.94	2.42E-06
10525989	G protein-coupled receptor 133	Gpr133	2.94	4.24E-06
10416406	5-hydroxytryptamine (serotonin) receptor 2A	Htr2a	2.91	4.44E-05
10375175	slit homolog 3 ( <i>Drosophila</i> )	Slit3	2.86	6.55E-06
10379228	nitric oxide synthase 2, inducible	Nos2	2.81	3.45E-02
10600024	G-protein-coupled receptor 50	Gpr50	2.73	9.57E-02
10438904	leucine rich repeat containing 15	Lrrc15	2.71	2.36E-06
10520452	interleukin 6	Il6	2.71	1.61E-03
10549222	branched chain aminotransferase 1, cytosolic	Bcat1	2.70	7.01E-07
10601659	sushi-repeat-containing protein, X-linked 2	Srpx2	2.69	6.21E-06
10365983	lumican	Lum	2.68	8.58E-07
10598251	diacylglycerol kinase kappa	Dgkk	2.67	1.37E-02
10487937	prokineticin receptor 2	Prokr2	2.65	1.23E-04
10585588	chondroitin sulfate proteoglycan 4	Cspg4	2.63	3.24E-06
10398075	serine (or cysteine) peptidase inhibitor, clade A, member 3N	Serpina3n	2.58	3.76E-06
10345791	interleukin 1 receptor-like 1	Il1rl1	2.57	1.89E-04
10563706	MAS-related GPR, member A9	Mrgpra9	2.56	1.81E-02
10585438	cellular retinoic acid binding protein I	Crabp1	2.52	3.24E-06
10351491	olfactomedin-like 2B	Olfml2b	2.47	9.27E-05
10375360	early B-cell factor 1	Ebf1	2.46	2.50E-06
10559667	interleukin 11	Il11	2.44	2.72E-04
10544573	leucine rich repeat containing 61 : retinoic acid receptor responder (tazarotene induced) 2	Rarres2 : Lrrc61	2.44	1.49E-05
10348632	twist homolog 2 ( <i>Drosophila</i> )	Twist2	2.43	1.31E-04
10553833	necdin	Ndn	2.41	9.72E-05
10514177	basonuclin 2	Bnc2	2.40	2.16E-04

10365974	decorin	Dcn	2.38	3.24E-06
10486102	G protein-coupled receptor 176	Gpr176	2.37	2.13E-04
10571142	G protein-coupled receptor 124	Gpr124	2.33	1.20E-03
10462507	3'-phosphoadenosine 5'-phosphosulfate synthase 2	Papss2	2.33	1.38E-03
10458663	dihydropyrimidinase-like 3	Dpysl3	2.32	1.14E-03
10594044	immunoglobulin superfamily containing leucine-rich repeat	Islr	2.32	2.86E-04
10409579	chemokine (C-X-C motif) ligand 14	Cxcl14	2.32	5.77E-05
10595324	5-hydroxytryptamine (serotonin) receptor 1B	Htr1b	2.32	5.49E-03
10375614	glutamine fructose-6-phosphate transaminase 2	Gfpt2	2.31	1.25E-04
10458894	lysyl oxidase	Lox	2.31	4.54E-04
10483081	fibroblast activation protein	Fap	2.30	6.06E-05
10447951	thrombospondin 2	Thbs2	2.29	8.26E-07
10594066	lysyl oxidase-like 1	Loxl1	2.29	5.71E-05
10375402	a disintegrin and metallopeptidase domain 19 (meltrin beta)	Adam19	2.29	1.64E-03
10563077	reticulocalbin 3, EF-hand calcium binding domain	Rcn3	2.27	6.82E-07
10416215	lysyl oxidase-like 2	Loxl2	2.25	2.16E-04
10427290	homeobox C8	Hoxc8	2.25	1.27E-05
10440019	transmembrane protein 45a	Tmem45a	2.24	2.49E-04
10536220	collagen, type I, alpha 2	Col1a2	2.23	8.97E-06
10358561	hemicentin 1	Hmcn1	2.22	2.12E-04
10576235	dipeptidase 1 (renal)	Dpep1	2.22	1.27E-04
10555174	leucine rich repeat containing 32	Lrrc32	2.21	6.06E-05
10563597	serum amyloid A 3	Saa3	2.18	6.65E-02
10349947	fibromodulin	Fmod	2.17	2.16E-04
10435948	coiled-coil domain containing 80	Ccdc80	2.17	9.44E-06
10381898	mannose receptor, C type 2	Mrc2	2.16	4.11E-04
10359624	paired related homeobox 1	Prrx1	2.16	6.72E-06
10380419	collagen, type I, alpha 1	Col1a1	2.15	2.02E-05
10593123	transgelin	Tagln	2.15	6.55E-06
10531724	placenta-specific 8	Plac8	2.15	1.03E-04
10346882	a disintegrin and metallopeptidase domain 23	Adam23	2.13	2.16E-04
10375751	a disintegrin-like and metallopeptidase (reprolysin type) with thrombospondin type 1 motif, 2	Adamts2	2.11	6.06E-05
10485198	tetraspanin 18	Tspan18	2.11	5.49E-04
10484463	serine (or cysteine) peptidase inhibitor, clade G, member 1	Serping1	2.10	2.67E-04
10475643	fibroblast growth factor 7	Fgf7	2.09	1.38E-04
10376778	microfibrillar-associated protein 4 : mitogen-activated protein kinase 7	Mapk7 : Mfap4	2.08	6.06E-05
10433114	integrin alpha 5 (fibronectin receptor alpha)	Itga5	2.08	1.07E-04
10358587	hemicentin 1	Hmcn1	2.08	2.66E-03
10373912	oncostatin M	Osm	2.07	9.66E-02
10501608	vascular cell adhesion molecule 1	Vcam1	2.07	8.35E-04
10363735	early growth response 2	Egr2	2.05	7.59E-04
10556616	transmembrane channel-like gene family 5	Tmc5	2.05	8.55E-02

10379524	chemokine (C-C motif) ligand 11	Ccl11	2.04	1.47E-03
10349157	serine (or cysteine) peptidase inhibitor, clade B, member 2	Serpinb2	2.03	2.40E-02
10370210	collagen, type VI, alpha 1	Col6a1	2.03	1.88E-03
10359929	discoidin domain receptor family, member 2	Ddr2	2.02	7.34E-04
10351400	family with sequence similarity 78, member B	Fam78b	2.02	4.01E-04
10398420	microRNA 382	Mir382	2.02	2.93E-03
10423080	C1q and tumor necrosis factor related protein 3	C1qtnf3	2.02	4.43E-03
10519983	fibrinogen-like protein 2	Fgl2	2.02	2.42E-04
10592719	OAF homolog (Drosophila)	Oaf	2.01	4.40E-04
10351293	dermatopontin	Dpt	2.00	1.64E-03