

Supplementary Table 1:

Genes found in different comparisons are listed. UCN = Unigene Cluster Number; # occurrence = the number of times the gene has been found in the overlaps of the particular area from Figure 2; factor dif = is the fold difference found between the observed and expected number of occurrences of the gene. 1) Genes found in area 1 from Figure 2; these genes are found down-regulated in breast samples and up-regulated in prostate samples. 2) Genes found in area 2 from Figure 2; these genes are down-regulated in metastatic prostate samples and are also found down-regulated in BRCA mutated or metastatic breast tumours. 3) Genes found in the overlap between “stromal processes” (genes expressed higher in prostate stromal cells as compared to epithelial cells) and genes down in BRCA mutated breast cancer and metastatic prostate samples (see Figure 4).

Genes area 1 figure2					Gene
UCN	# occurrence	factor dif	Name		
Hs.349961	22	46.8	ribosomal protein L6		RPL6
Hs.3297	24	38.9	ribosomal protein S27a		RPS27A
Hs.83715	80	36.7	Sjogren syndrome antigen B (autobantigen La)		SSB
Hs.155396	52	35.7	nuclear factor (erythroid-derived 2)-like 2		NFE2L2
Hs.78065	30	32.7	complement component 7		C7
Hs.184108	28	20.0	ribosomal protein L21		RPL21
Hs.194148	18	20.0	v-yes-1 Yamaguchi sarcoma viral oncogene homolog 1		YES1
Hs.180946	36	19.1	ribosomal protein L5		RPL5
Hs.301819	30	16.3	zinc finger protein 146		ZNF146
Hs.184014	24	14.6	ribosomal protein L31		RPL31
Hs.106673	42	14.5	eukaryotic translation initiation factor 3, subunit 6 (48kD)		EIF3S6
Hs.8146	45	14.4	translocation protein 1		TLOC1
Hs.239489	18	12.5	TIA1 cytotoxic granule-associated RNA-binding protein		TIA1
Hs.14838	60	12.2	likely ortholog of mouse NPC derived proline rich protein 1		FLJ10773
Hs.343877	24	9.7	hypothetical protein FLJ20039		FLJ20039
Hs.197540	32	9.4	hypoxia-inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor)		HIF1A
Hs.83916	27	9.4	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 5 (13kD, B13)		NDUFA5
Hs.79914	128	9.3	lumican		LUM
Hs.82110	20	9.2	PC4 and SFRS1 interacting protein 2		PSIP2
Hs.109694	24	8.5	KIAA1451 protein		KIAA1451
Hs.283978	21	8.3	Homo sapiens PRO2751 mRNA, complete cds		
Hs.6838	56	8.0	ras homolog gene family, member E		ARHE
Hs.8769	60	7.3	brain cell membrane protein 1		BCMP1
Hs.196384	24	7.2	prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase)		PTGS2
Hs.183773	24	7.1	golgi autoantigen, golgin subfamily a, 4		GOLGA4
Hs.35094	20	6.8	extracellular matrix protein 2, female organ and adipocyte specific		ECM2
Hs.74615	25	6.4	platelet-derived growth factor receptor, alpha polypeptide		PDGFRA
Hs.169756	24	6.2	complement component 1, s subcomponent		C1S
Hs.29287	18	6.2	retinoblastoma-binding protein 8		RBBP8
Hs.109439	20	5.0	osteoglycin (osteoinductive factor, mimecan)		OGN
Hs.814	42	5.0	major histocompatibility complex, class II, DP beta 1		HLA-DPB1
Hs.131255	26	4.3	ubiquinol-cytochrome c reductase binding protein		UQCRB
Hs.3314	30	3.8	selenoprotein P, plasma, 1		SEPP1
Hs.78993	18	3.7	IQ motif containing GTPase activating protein 2		IQGAP2
Hs.620	48	3.6	bullous pemphigoid antigen 1 (230/240kD)		BPAG1
Hs.50421	24	3.4	likely ortholog of mouse coiled coil forming protein 1		KIAA0203
Hs.308026	18	3.3	major histocompatibility complex, class II, DR beta 5		HLA-DRB5

Genes area 2 figure 2

UCN	# occurrence	factor dif	Name	Gene
Hs.77899	62	19.0	tropomyosin 1 (alpha)	TPM1
Hs.93005	129	18.9	slug (chicken homolog), zinc finger protein	SLUG
Hs.103724	42	15.4	peripheral myelin protein 22	PMP22
Hs.119206	45	14.5	insulin-like growth factor binding protein 7	IGFBP7
Hs.37682	34	14.4	retinoic acid receptor responder (tazarotene induced) 2	RARRES2
Hs.80988	42	13.9	collagen, type VI, alpha 3	COL6A3
Hs.198862	39	13.9	fibulin 2	FBLN2
Hs.234680	27	13.0	fer-1 (C.elegans)-like 3 (myoferlin)	FER1L3
Hs.74615	32	12.0	platelet-derived growth factor receptor, alpha polypeptide	PDGFRA
Hs.76252	47	11.7	endothelin receptor type A	EDNRA
Hs.85112	28	11.1	insulin-like growth factor 1 (somatomedin C)	IGF1
Hs.94795	44	10.9	Homo sapiens, clone IMAGE:3140802, mRNA	
Hs.1298	108	10.8	membrane metallo-endopeptidase (neutral endopeptidase, enkephalinase, CALLA, CD10)	MME
Hs.111779	65	9.9	secreted protein, acidic, cysteine-rich (osteonectin)	SPARC
Hs.83164	35	9.6	collagen, type XV, alpha 1	COL15A1
Hs.173159	26	9.5	transforming, acidic coiled-coil containing protein 1	TACC1
Hs.139851	96	9.5	caveolin 2	CAV2
Hs.326035	63	9.4	early growth response 1	EGR1
Hs.8966	29	9.2	tumor endothelial marker 8	TEM8
Hs.119571	75	9.1	collagen, type III, alpha 1 (Ehlers-Danlos syndrome type IV, autosomal dominant)	COL3A1
Hs.168640	63	8.8	ankylosis, progressive (mouse) homolog	ANKH
Hs.87409	55	8.8	thrombospondin 1	THBS1
Hs.82112	49	8.5	interleukin 1 receptor, type I	IL1R1
Hs.290070	30	8.3	gelsolin (amyloidosis, Finnish type)	GSN
Hs.239069	159	7.9	four and a half LIM domains 1	FHL1
Hs.2025	155	7.9	transforming growth factor, beta 3	TGFB3
Hs.24950	35	7.9	regulator of G-protein signalling 5	RGS5
Hs.8136	27	7.4	endothelial PAS domain protein 1	EPAS1
Hs.4909	47	6.8	dickkopf (Xenopus laevis) homolog 3	DKK3
Hs.245188	143	6.4	tissue inhibitor of metalloproteinase 3 (Sorsby fundus dystrophy, pseudoinflammatory)	TIMP3
Hs.96063	31	6.3	insulin receptor substrate 1	IRS1
Hs.78225	48	6.1	annexin A1	ANXA1
Hs.30250	44	6.0	v-maf musculoaponeurotic fibrosarcoma (avian) oncogene homolog	MAF
Hs.169756	42	5.9	complement component 1, s subcomponent	C1S
Hs.75586	26	5.7	cyclin D2	CCND2
Hs.169300	45	5.7	transforming growth factor, beta 2	TGFB2
Hs.287820	69	5.4	fibronectin 1	FN1
Hs.79069	44	5.4	cyclin G2	CCNG2
Hs.31297	36	5.3	duodenal cytochrome b	FLJ23462
Hs.166994	45	5.1	FAT tumor suppressor (Drosophila) homolog	FAT
Hs.183	28	5.1	Duffy blood group	FY
Hs.2936	36	5.0	matrix metalloproteinase 13 (collagenase 3)	MMP13
Hs.279009	72	4.7	matrix Gla protein	MGP
Hs.178112	56	4.7	DNA segment, single copy probe LNS-CAI/LNS-CAII (deleted in polyposis)	D5S346
Hs.82432	83	4.6	KIAA0089 protein	KIAA0089
Hs.289114	108	4.5	hexabrachion (tenascin C, cytotactin)	HXB
Hs.3314	71	4.5	selenoprotein P, plasma, 1	SEPP1
Hs.230	77	4.5	fibromodulin	FMOD
Hs.49597	27	4.4	retinoic acid induced 2	RAI2
Hs.267182	142	4.3	T-box 3 (ulnar mammary syndrome)	TBX3
Hs.119301	44	4.0	S100 calcium-binding protein A10 (annexin II ligand, calpactin I, light polypeptide (p11))	S100A10
Hs.154654	78	3.8	cytochrome P450, subfamily I (dioxin-inducible), polypeptide 1 (glaucoma 3, primary infantile)	CYP1B1
Hs.82163	109	3.6	monoamine oxidase B	MAOB
Hs.169946	88	3.6	GATA-binding protein 3	GATA3
Hs.1940	72	3.4	crystallin, alpha B	CRYAB
Hs.278581	39	3.4	fibroblast growth factor receptor 2 (bacteria-expressed kinase, keratinocyte growth factor receptor,	FGFR2
Hs.9795	48	3.4	acyl-Coenzyme A oxidase 2, branched chain	ACOX2
Hs.75360	53	3.3	carboxypeptidase E	CPE
Hs.214982	30	3.3	laminin, gamma 1 (formerly LAMB2)	LAMC1
Hs.76307	55	3.1	neuroblastoma, suppression of tumorigenicity 1	NBL1

Genes responsible for the overlap found between stromal processes and :**Breast BRCA pos**

UCN	Name	Gene
Hs.115770	tumor necrosis factor (ligand) superfamily, member 11	TNFSF11
Hs.1334	v-myb avian myeloblastosis viral oncogene homolog	MYB
Hs.136348	osteoblast specific factor 2 (fasciclin I-like)	OSF-2
Hs.155545	37 kDa leucine-rich repeat (LRR) protein	P37NB
Hs.1619	achaete-scute complex (Drosophila) homolog-like 1	ASCL1
Hs.245188	tissue inhibitor of metalloproteinase 3 (Sorsby fundus dystrophy, pseudoinflammatory)	TIMP3
Hs.274404	plasminogen activator, tissue	PLAT
Hs.287820	fibronectin 1	FN1
Hs.28783	KIAA1223 protein	KIAA1223
Hs.3314	selenoprotein P, plasma, 1	SEPP1
Hs.351875	cytochrome c oxidase subunit VIc	COX6C
Hs.56023	brain-derived neurotrophic factor	BDNF
Hs.7358	hypothetical protein FLJ13110	FLJ13110
Hs.74471	gap junction protein, alpha 1, 43kD (connexin 43)	GJA1
Hs.750	fibrillin 1 (Marfan syndrome)	FBN1
Hs.75929	cadherin 11, type 2, OB-cadherin (osteoblast)	CDH11
Hs.81800	chondroitin sulfate proteoglycan 2 (versican)	CSPG2
Hs.82128	trophoblast glycoprotein	TPBG
Hs.82772	collagen, type XI, alpha 1	COL11A1
Hs.86368	calmegin	CLGN
Hs.89626	parathyroid hormone-like hormone	PTHLH

Prostate META

UCN	Name	Gene
Hs.13351	LanC (bacterial lantibiotic synthetase component C)-like 1	LANCL1
Hs.154654	cytochrome P450, subfamily I (dioxin-inducible), polypeptide 1 (glaucoma 3, primary infantile)	CYP1B1
Hs.169756	complement component 1, s subcomponent	C1S
Hs.239069	four and a half LIM domains 1	FHL1
Hs.245188	tissue inhibitor of metalloproteinase 3 (Sorsby fundus dystrophy, pseudoinflammatory)	TIMP3
Hs.287820	fibronectin 1	FN1
Hs.289114	hexabrachion (tenascin C, cytotactin)	HXB
Hs.297753	vimentin	VIM
Hs.31297	duodenal cytochrome b	FLJ23462
Hs.3314	selenoprotein P, plasma, 1	SEPP1
Hs.75350	vinculin	VCL
Hs.77273	ras homolog gene family, member A	ARHA
Hs.90408	neogenin (chicken) homolog 1	NEO1