

**Supplementary table 1** Detailed information about the proteins in the prostate cancer & benign tissue (P & b) group

The reported frequency	Gene symbol	Protein name	Differentially expressed
7	DES <sup>1-7</sup>	desmin	Down-regulation
4	ANXA5 <sup>3,5,8,9</sup>	annexin A5	Up-regulation
4	ENO1 <sup>3,8,10,11</sup>	enlace 1, (alpha)	Up-regulation
4	HSPD1 <sup>1,3,4,11</sup>	heat shock 60kDa protein 1 (chaperonin)	Up-regulation
4	SERPINF1 <sup>3,6,12,13</sup>	serpin peptidase inhibitor, clade F (alpha-2 antiplasmin, pigment epithelium derived factor), member 1	1 Up, 2 Down
4	VCL <sup>1,3,7,14</sup>	vinculin	1 Up, 2 Down
3	ACPP <sup>3,6,11</sup>	acid phosphatase, prostate	Up-regulation
3	ANXA3 <sup>3,7,9</sup>	annexin A3	Up-regulation
3	AZGP1 <sup>3,6,12</sup>	alpha-2-glycoprotein 1, zinc-binding	Up-regulation
3	FGG <sup>3,4,15</sup>	fibrinogen gamma chain	1 Up, 1 Down
3	GSN <sup>1,3,15</sup>	gelsolin	2 Up, 1 Down
3	GSTP1 <sup>3,10,14</sup>	glutathione S-transferase pi 1	1 Up, 1 Down
3	HSPA5 <sup>1,3,4</sup>	heat shock 70kDa protein 5	Up-regulation
3	KRT8 <sup>3,4,7</sup>	keratin 8	1 Up, 1 Down
3	PHB <sup>3,4,6</sup>	prohibitin	Up-regulation
3	POSTN <sup>1,6,16</sup>	periostin, osteoblast specific factor	Up-regulation
3	SERPINC1 <sup>3,12,17</sup>	serpin peptidase inhibitor, clade C (antithrombin), member 1	1 Up, 1 Down
3	TPD52 <sup>1,3,17</sup>	tumor protein D52	Up-regulation
3	TPM1 <sup>2,5,7</sup>	tropomyosin 1 (alpha)	1 Up, 1 Down
3	TUBB4B <sup>3,4,6</sup>	tubulin, beta 4B class IVb	Up-regulation
2	AKT1 <sup>9,10</sup>	v-akt murine thymoma viral oncogene homolog 1	-
2	ALDOA <sup>11,16</sup>	aldolase A, fructose-bisphosphate	Up-regulation
2	AMACR <sup>6,13</sup>	alpha-methylacyl-CoA racemase	Up-regulation
2	ANXA1 <sup>3,9</sup>	annexin A1	Up-regulation
2	ANXA7 <sup>3,7</sup>	annexin A7	Up-regulation
2	APCS <sup>7,16</sup>	amyloid P component, serum	Up-regulation
2	APOA1 <sup>4,15</sup>	apolipoprotein A-I	Down-regulation
2	ARHGDI <sup>3,4</sup>	Rho GDP dissociation inhibitor (GDI) alpha	Up-regulation
2	ATP5B <sup>4,6</sup>	ATP synthase, H+ transporting, mitochondrial F1 complex, beta polypeptide	Down-regulation
2	B2M <sup>6,18</sup>	beta-2-microglobulin	Up-regulation

2	CAPG <sup>3,14</sup>	capping protein (actin filament), gelsolin-like	Down-regulation
2	CAV1 <sup>9,13</sup>	caveolin 1, caveolae protein, 22kDa	Down-regulation
2	CKB <sup>4,5</sup>	creatine kinase, brain	Down-regulation
2	CRYZL1 <sup>15,17</sup>	crystallin, zeta (quinone reductase)-like 1	Up-regulation
2	DDAH1 <sup>3,9</sup>	dimethylarginine dimethylaminohydrolase 1	Up-regulation
2	ENDOD1 <sup>15,17</sup>	endonuclease domain containing 1	Up-regulation
2	EZR <sup>3,6</sup>	ezrin	Up-regulation
2	F2 <sup>12,19</sup>	coagulation factor II (thrombin)	1 Up, 1 Down
2	FGB <sup>3,19</sup>	fibrinogen beta chain	1 Up, 1 Down
2	FKBP4 <sup>3,8</sup>	FK506 binding protein 4, 59kDa	1 Up, 1 Down
2	FOLH1 <sup>6,13</sup>	folate hydrolase (prostate-specific membrane antigen) 1	Up-regulation
2	GC <sup>3,15</sup>	group-specific component (vitamin D binding protein)	1 Up, 1 Down
2	GSTM3 <sup>3,14</sup>	glutathione S-transferase mu 3 (brain)	Up-regulation
2	HNRNPH1 <sup>1,3</sup>	heterogeneous nuclear ribonucleoprotein H1 (H)	Up-regulation
2	HNRNPK <sup>3,7</sup>	heterogeneous nuclear ribonucleoprotein K	Up-regulation
2	HP <sup>12,15</sup>	haptoglobin	Down-regulation
2	HSP90AA1 <sup>3,16</sup>	heat shock protein 90kDa alpha (cytosolic), class A member 1	Up-regulation
2	HSPA8 <sup>4,6</sup>	heat shock 70kDa protein 8	Down-regulation
2	HSPA9 <sup>1,4</sup>	heat shock 70kDa protein 9 (mortalin)	Up-regulation
2	HSPB1 <sup>1,3</sup>	heat shock 27kDa protein 1	1 Up, 1 Down
2	HSPG2 <sup>1,15</sup>	heparan sulfate proteoglycan 2	1 Up, 1 Down
2	ILF2 <sup>15,17</sup>	interleukin enhancer binding factor 2	Up-regulation
2	KRT18 <sup>3,4</sup>	keratin 18	Up-regulation
2	KRT19 <sup>3,4</sup>	keratin 19	Up-regulation
2	KRT2 <sup>6,7</sup>	keratin 2	-
2	KRT5 <sup>2,13</sup>	keratin 5	Down-regulation
2	LDHA <sup>11,16</sup>	lactate dehydrogenase A	Up-regulation
2	MCCC2 <sup>6,14</sup>	methylcrotonoyl-CoA carboxylase 2 (beta)	Up-regulation
2	OGN <sup>1,16</sup>	osteoglycin	Down-regulation
2	P4HB <sup>3,4</sup>	prolyl 4-hydroxylase, beta polypeptide	Up-regulation
2	PDIA3 <sup>1,7</sup>	protein disulfide isomerase family A, member 3	Up-regulation
2	PGAM1 <sup>10,11</sup>	phosphoglycerate mutase 1	Up-regulation
2	PSME1 <sup>3,16</sup>	proteasome (prosome, macropain)	Up-regulation

		activator subunit 1 (PA28 alpha)	
2	PSME2 <sup>3,16</sup>	proteasome (prosome, macropain) activator subunit 2 (PA28 beta)	Up-regulation
2	PTGDS <sup>15,19</sup>	prostaglandin D2 synthase 21kDa (brain)	1 Up, 1 Down
2	RFFL <sup>15,17</sup>	ring finger and FYVE-like domain containing E3 ubiquitin protein ligase	Up-regulation
2	S100A9 <sup>2,6</sup>	S100 calcium binding protein A9	Up-regulation
2	SERPINA1 <sup>4,15</sup>	serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1	Down-regulation
2	SERPING1 <sup>6,19</sup>	serpin peptidase inhibitor, clade G (C1 inhibitor), member 1	Down-regulation
2	TF <sup>15,19</sup>	transferrin	1 Up, 1 Down
2	TGM2 <sup>2,3</sup>	transglutaminase 2	Up-regulation
2	THY1 <sup>6,9</sup>	Thy-1 cell surface antigen	Up-regulation
2	TPM2 <sup>4,7</sup>	tropomyosin 2 (beta)	-
2	TYMP <sup>15,17</sup>	thymidine phosphorylase	Down-regulation
2	UMOD <sup>6,15</sup>	uromodulin	Down-regulation
2	VIM <sup>1,5</sup>	vimentin	Down-regulation
2	YWHAQ <sup>6,9</sup>	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta	-
1	A1BG <sup>5</sup>	alpha-1-B glycoprotein	Up-regulation
1	A2ML1 <sup>6</sup>	alpha-2-macroglobulin-like 1	-
1	ABL1 <sup>6</sup>	ABL proto-oncogene 1, non-receptor tyrosine kinase	-
1	ACLY <sup>14</sup>	ATP citrate lyase	Up-regulation
1	ACTC1 <sup>3</sup>	actin, alpha, cardiac muscle 1	Up-regulation
1	ACTG2 <sup>1</sup>	actin, gamma 2, smooth muscle, enteric	Down-regulation
1	ACTN1 <sup>3</sup>	actinin, alpha 1	Up-regulation
1	ADM2 <sup>6</sup>	adrenomedullin 2	-
1	AFM <sup>6</sup>	afamin	-
1	AGR2 <sup>13</sup>	anterior gradient 2	Up-regulation
1	AHNAK <sup>1</sup>	AHNAK nucleoprotein	Down-regulation
1	AHSG <sup>6</sup>	alpha-2-HS-glycoprotein	-
1	ALB <sup>4</sup>	albumin	-
1	ALDH2 <sup>3</sup>	aldehyde dehydrogenase 2 family	Up-regulation
1	ALDH9A1 <sup>3</sup>	aldehyde dehydrogenase 9 family, member A1	Up-regulation
1	AMBp <sup>15</sup>	alpha-1-microglobulin/bikunin precursor	Up-regulation
1	AMY1A <sup>17</sup>	amylase, alpha 1A	-
1	ANXA11 <sup>7</sup>	annexin A11	-

1	ANXA2 <sup>11</sup>	annexin A2	-
1	ANXA4 <sup>4</sup>	annexin A4	-
1	AR <sup>6</sup>	androgen receptor	-
1	ARHGAP1 <sup>3</sup>	Rho GTPase activating protein 1	Up-regulation
1	ATP5A1 <sup>1</sup>	ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subunit 1, cardiac muscle	Up-regulation
1	ATP5C1 <sup>11</sup>	ATP synthase, H+ transporting, mitochondrial F1 complex, gamma polypeptide 1	Up-regulation
1	ATP6V1B2 <sup>3</sup>	ATPase, H+ transporting, lysosomal 56/58kDa, V1 subunit B2	Up-regulation
1	AZU1 <sup>16</sup>	azurocidin 1	Down-regulation
1	BECN1 <sup>10</sup>	beclin 1, autophagy related	Down-regulation
1	BGN <sup>1</sup>	biglycan	Up-regulation
1	BPIFB1 <sup>16</sup>	BPI fold containing family B, member 1	Up-regulation
1	BSG <sup>20</sup>	basigin (Ok blood group)	Up-regulation
1	C3 <sup>12</sup>	complement component 3	Up-regulation
1	C4A <sup>6</sup>	complement component 4A	-
1	C4B <sup>12</sup>	complement component 4B	Up-regulation
1	C5 <sup>6</sup>	complement component 5	-
1	CALD1 <sup>5</sup>	caldesmon 1	Down-regulation
1	CAND1 <sup>16</sup>	cullin-associated and neddylation-dissociated 1	Up-regulation
1	CAPZA1 <sup>3</sup>	capping protein (actin filament) muscle Z-line, alpha 1	Up-regulation
1	CCND2 <sup>13</sup>	cyclin D2	Down-regulation
1	CCR6 <sup>9</sup>	chemokine (C-C motif) receptor 6	Up-regulation
1	CD14 <sup>9</sup>	CD14 molecule	Up-regulation
1	CD151 <sup>20</sup>	CD151 molecule (Raph blood group)	Up-regulation
1	CD276 <sup>9</sup>	CD276 molecule	-
1	CD59 <sup>15</sup>	CD59 molecule, complement regulatory protein	Up-regulation
1	CDCP1 <sup>20</sup>	CUB domain containing protein 1	Up-regulation
1	CDH1 <sup>16</sup>	cadherin 1, type 1, E-cadherin (epithelial)	Up-regulation
1	CFB <sup>6</sup>	complement factor B	-
1	CFL1 <sup>8</sup>	cofilin 1 (non-muscle)	Up-regulation
1	CHGA <sup>6</sup>	chromogranin A (parathyroid secretory protein 1)	-
1	CHMP4B <sup>2</sup>	charged multivesicular body protein 4B	Up-regulation
1	CLDN3 <sup>13</sup>	claudin 3	Up-regulation
1	CLIC1 <sup>3</sup>	chloride intracellular channel 1	Up-regulation

1	CLU <sup>1</sup>	clusterin	Down-regulation
1	CNDP2 <sup>3</sup>	CNDP dipeptidase 2 (metallopeptidase M20 family)	Up-regulation
1	CNN1 <sup>1</sup>	calponin 1, basic, smooth muscle	Down-regulation
1	COL14A1 <sup>5</sup>	collagen, type XIV, alpha 1	Up-regulation
1	COL1A1 <sup>1</sup>	collagen, type I, alpha 1	Down-regulation
1	COL6A1 <sup>1</sup>	collagen, type VI, alpha 1	Down-regulation
1	COL6A2 <sup>3</sup>	collagen, type VI, alpha 2	Up-regulation
1	COL6A3 <sup>1</sup>	collagen, type VI, alpha 3	Down-regulation
1	COPS8 <sup>8</sup>	COP9 signalosome subunit 8	Up-regulation
1	COX5B <sup>1</sup>	cytochrome c oxidase subunit Vb	Up-regulation
1	COX6C <sup>1</sup>	cytochrome c oxidase subunit VIc	Up-regulation
1	CP <sup>6</sup>	ceruloplasmin (ferroxidase)	-
1	CPB2 <sup>16</sup>	carboxypeptidase B2 (plasma)	Up-regulation
1	CPN1 <sup>16</sup>	carboxypeptidase N, polypeptide 1	Up-regulation
1	CRABP1 <sup>6</sup>	cellular retinoic acid binding protein 1	-
1	CRKL <sup>8</sup>	v-crk avian sarcoma virus CT10 oncogene homolog-like	Down-regulation
1	CRP <sup>6</sup>	C-reactive protein, pentraxin-related	-
1	CS <sup>11</sup>	citrate synthase	Up-regulation
1	CXCL16 <sup>6</sup>	chemokine (C-X-C motif) ligand 16	-
1	DCN <sup>1</sup>	decorin	Down-regulation
1	DDAH2 <sup>7</sup>	dimethylarginine dimethylaminohydrolase 2	-
1	DDH2 <sup>10</sup>	Developmental dysplasia of the hip 2	-
1	DKK1 <sup>13</sup>	dickkopf WNT signaling pathway inhibitor 1	Down-regulation
1	DKK3 <sup>6</sup>	dickkopf WNT signaling pathway inhibitor 3	-
1	DSG1 <sup>16</sup>	desmoglein 1	Down-regulation
1	DSP <sup>16</sup>	desmoplakin	Down-regulation
1	ECHS1 <sup>4</sup>	enoyl CoA hydratase, short chain, 1, mitochondrial	Up-regulation
1	EEF1A1 <sup>6</sup>	eukaryotic translation elongation factor 1 alpha 1	-
1	EFS <sup>13</sup>	embryonal Fyn-associated substrate	Down-regulation
1	EGFR <sup>6</sup>	epidermal growth factor receptor	-
1	EHD2 <sup>1</sup>	EH-domain containing 2	Up-regulation
1	EN2 <sup>6</sup>	engrailed homeobox 2	-
1	ENO2 <sup>3</sup>	enolase 2 (gamma, neuronal)	Up-regulation
1	EPHA2 <sup>6</sup>	EPH receptor A2	-
1	ERBB2 <sup>6</sup>	erb-b2 receptor tyrosine kinase 2	-
1	ERG <sup>13</sup>	v-ets avian erythroblastosis virus E26	Up-regulation

		oncogene homolog	
1	EZH2 <sup>6</sup>	enhancer of zeste 2 polycomb repressive complex 2 subunit	-
1	FABP5 <sup>6</sup>	fatty acid binding protein 5	-
1	FASN <sup>13</sup>	fatty acid synthase	Up-regulation
1	FDPS <sup>3</sup>	farnesyl diphosphate synthase	Up-regulation
1	FGA <sup>15</sup>	fibrinogen alpha chain	Up-regulation
1	FLNC <sup>13</sup>	filamin C, gamma	Down-regulation
1	FLOT1 <sup>11</sup>	flotillin 1	-
1	FN1 <sup>6</sup>	fibronectin 1	-
1	FST <sup>6</sup>	follistatin	-
1	FTH1 <sup>2</sup>	ferritin, heavy polypeptide 1	Up-regulation
1	FTL <sup>3</sup>	ferritin, light polypeptide	Up-regulation
1	GDF15 <sup>6</sup>	growth differentiation factor 15	-
1	GDI2 <sup>3</sup>	GDP dissociation inhibitor 2	Up-regulation
1	GLO1 <sup>3</sup>	glyoxalase I	Up-regulation
1	GNAI2 <sup>3</sup>	guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 2	Up-regulation
1	GSTO1 <sup>3</sup>	glutathione S-transferase omega 1	Up-regulation
1	GUCY1A3 <sup>13</sup>	guanylate cyclase 1, soluble, alpha 3	Up-regulation
1	HADHA <sup>6</sup>	hydroxyacyl-CoA dehydrogenase/3-ketoacyl-CoA thiolase/enoyl-CoA hydratase (trifunctional protein), alpha subunit	-
1	HERC2 <sup>19</sup>	HECT and RLD domain containing E3 ubiquitin protein ligase 2	Down-regulation
1	HGFAC <sup>16</sup>	HGF activator	Up-regulation
1	HIST2H2BF <sup>2</sup>	histone cluster 2, H2bf	Down-regulation
1	HNRNPA2B1 <sup>5</sup>	heterogeneous nuclear ribonucleoprotein A2/B1	Down-regulation
1	HNRNPL <sup>14</sup>	heterogeneous nuclear ribonucleoprotein L	Up-regulation
1	HP1BP3 <sup>1</sup>	heterochromatin protein 1, binding protein 3	Up-regulation
1	HPN <sup>13</sup>	hepsin	Up-regulation
1	HPX <sup>12</sup>	hemopexin	Down-regulation
1	HRNR <sup>8</sup>	hornerin	Up-regulation
1	HSP90AB1 <sup>16</sup>	heat shock protein 90kDa alpha (cytosolic), class B member 1	Up-regulation
1	HSP90B1 <sup>6</sup>	heat shock protein 90kDa beta (Grp94), member 1	-
1	HSPA1A <sup>4</sup>	heat shock 70kDa protein 1A	-

1	HSPA1B <sup>3</sup>	heat shock 70kDa protein 1B	Up-regulation
1	HYPK <sup>8</sup>	huntingtin interacting protein K	Down-regulation
1	IDH2 <sup>11</sup>	isocitrate dehydrogenase 2 (NADP+), mitochondrial	Up-regulation
1	IGF1 <sup>16</sup>	insulin-like growth factor 1 (somatomedin C)	Up-regulation
1	IGHA1 <sup>19</sup>	immunoglobulin heavy constant alpha 1	Down-regulation
1	IGHV4-31 <sup>19</sup>	immunoglobulin heavy variable 4-31	Down-regulation
1	IGL <sup>1</sup>	immunoglobulin lambda locus	Down-regulation
1	IL6 <sup>6</sup>	interleukin 6	-
1	IMPDH2 <sup>14</sup>	IMP (inosine 5'-monophosphate) dehydrogenase 2	Up-regulation
1	ITIH4 <sup>15</sup>	inter-alpha-trypsin inhibitor heavy chain family, member 4	Up-regulation
1	JAK2 <sup>6</sup>	Janus kinase 2	-
1	JUP <sup>16</sup>	junction plakoglobin	Down-regulation
1	KHSRP <sup>8</sup>	KH-type splicing regulatory protein	Up-regulation
1	KRT1 <sup>3</sup>	keratin 1	Up-regulation
1	KRT10 <sup>3</sup>	keratin 10	Up-regulation
1	KRT15 <sup>14</sup>	keratin 15	Down-regulation
1	LAMC1 <sup>1</sup>	laminin, gamma 1	Down-regulation
1	LCP1 <sup>16</sup>	lymphocyte cytosolic protein 1 (L-plastin)	Up-regulation
1	LDHB <sup>16</sup>	lactate dehydrogenase B	Up-regulation
1	LIMA1 <sup>6</sup>	LIM domain and actin binding 1	-
1	LMAN2 <sup>15</sup>	lectin, mannose-binding 2	Up-regulation
1	LMNA <sup>6</sup>	lamin A/C	-
1	LPP <sup>1</sup>	LIM domain containing preferred translocation partner in lipoma	Down-regulation
1	LRG1 <sup>6</sup>	leucine-rich alpha-2-glycoprotein 1	-
1	LUM <sup>16</sup>	lumican	Up-regulation
1	MACF1 <sup>19</sup>	microtubule-actin crosslinking factor 1	Down-regulation
1	MASP2 <sup>15</sup>	mannan-binding lectin serine peptidase 2	Up-regulation
1	MDH2 <sup>11</sup>	malate dehydrogenase 2, NAD (mitochondrial)	Up-regulation
1	MMRN1 <sup>16</sup>	multimerin 1	Down-regulation
1	MPO <sup>19</sup>	myeloperoxidase	Down-regulation
1	MSN <sup>14</sup>	moesin	Down-regulation
1	MUC3 <sup>18</sup>	intestinal mucin-like	Up-regulation
1	MYL6 <sup>8</sup>	myosin, light chain 6, alkali, smooth muscle and non-muscle	Down-regulation
1	MYL9 <sup>14</sup>	myosin, light chain 9, regulatory	Down-regulation

1	NDRG1 <sup>3</sup>	N-myc downstream regulated 1	Up-regulation
1	NDUFS1 <sup>3</sup>	NADH dehydrogenase (ubiquinone) Fe-S protein 1, 75kDa (NADH-coenzyme Q reductase)	Up-regulation
1	NPM1 <sup>1</sup>	nucleophosmin (nucleolar phosphoprotein B23, numatrin)	Up-regulation
1	NRP1 <sup>20</sup>	neuropilin 1	Up-regulation
1	NUP107 <sup>3</sup>	nucleoporin 107kDa	Up-regulation
1	OSTF1 <sup>8</sup>	osteoclast stimulating factor 1	Up-regulation
1	PARK7 <sup>3</sup>	parkinson protein 7	Up-regulation
1	PDHB <sup>8</sup>	pyruvate dehydrogenase (lipoamide) beta	Down-regulation
1	PDIA4 <sup>1</sup>	protein disulfide isomerase family A, member 4	Up-regulation
1	PDIA6 <sup>3</sup>	protein disulfide isomerase family A, member 6	Up-regulation
1	PDXK <sup>3</sup>	pyridoxal (pyridoxine, vitamin B6) kinase	Up-regulation
1	PEBP1 <sup>1</sup>	phosphatidylethanolamine binding protein 1	Down-regulation
1	PFDN5 <sup>8</sup>	prefoldin subunit 5	Up-regulation
1	PGA3 <sup>18</sup>	pepsinogen 3, group I (pepsinogen A)	Up-regulation
1	PGC <sup>6</sup>	progastricsin (pepsinogen C)	-
1	PHB2 <sup>1</sup>	prohibitin 2	Up-regulation
1	PKM <sup>9</sup>	pyruvate kinase, muscle	-
1	PLS3 <sup>16</sup>	plastin 3	Up-regulation
1	PON3 <sup>16</sup>	paraoxonase 3	Up-regulation
1	PPA2 <sup>6</sup>	pyrophosphatase (inorganic) 2	-
1	PRDX1 <sup>10</sup>	peroxiredoxin 1	-
1	PRDX2 <sup>7</sup>	peroxiredoxin 2	-
1	PRDX3 <sup>8</sup>	peroxiredoxin 3	Down-regulation
1	PRDX6 <sup>7</sup>	peroxiredoxin 6	-
1	PRKCDBP <sup>1</sup>	protein kinase C, delta binding protein	Down-regulation
1	PSMC5 <sup>11</sup>	proteasome (prosome, macropain) 26S subunit, ATPase, 5	-
1	PTEN <sup>6</sup>	phosphatase and tensin homolog	-
1	PTX3 <sup>6</sup>	pentraxin 3, long	-
1	PYGB <sup>14</sup>	phosphorylase, glycogen; brain	Down-regulation
1	RAB36 <sup>17</sup>	RAB36, member RAS oncogene family	-
1	RND3 <sup>13</sup>	Rho family GTPase 3	Down-regulation
1	RPLP0 <sup>8</sup>	ribosomal protein, large, P0	Up-regulation
1	RPS8 <sup>1</sup>	ribosomal protein S8	Up-regulation
1	SAA1 <sup>12</sup>	serum amyloid A1	Down-regulation

1	SAA4 <sup>16</sup>	serum amyloid A4, constitutive	Up-regulation
1	SBSN <sup>16</sup>	suprabasin	Down-regulation
1	SCFV <sup>19</sup>	single-chain Fv fragment	Down-regulation
1	SDPR <sup>1</sup>	serum deprivation response	Down-regulation
1	SECTM1 <sup>15</sup>	secreted and transmembrane 1	Up-regulation
1	SELENBP1 <sup>7</sup>	selenium binding protein 1	-
1	SEMG1 <sup>6</sup>	semenogelin I	-
1	SERPINA3 <sup>6</sup>	serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 3	-
1	SERPINA5 <sup>13</sup>	serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 5	Down-regulation
1	SERPINB5 <sup>14</sup>	serpin peptidase inhibitor, clade B (ovalbumin), member 5	Down-regulation
1	SERPINE1 <sup>3</sup>	serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1	Up-regulation
1	SFTPB <sup>16</sup>	surfactant protein B	Up-regulation
1	SIM2 <sup>13</sup>	single-minded family bHLH transcription factor 2	Up-regulation
1	SNCG <sup>13</sup>	synuclein, gamma (breast cancer-specific protein 1)	Down-regulation
1	SNRNP200 <sup>4</sup>	small nuclear ribonucleoprotein 200kDa (U5)	-
1	SORBS1 <sup>1</sup>	sorbin and SH3 domain containing 1	Down-regulation
1	SORBS2 <sup>1</sup>	sorbin and SH3 domain containing 2	Down-regulation
1	SORD <sup>1</sup>	sorbitol dehydrogenase	Up-regulation
1	SOX4 <sup>6</sup>	SRY (sex determining region Y)-box 4	-
1	SPON2 <sup>6</sup>	spondin 2, extracellular matrix protein	-
1	SPP1 <sup>19</sup>	secreted phosphoprotein 1	Down-regulation
1	SRC <sup>6</sup>	SRC proto-oncogene, non-receptor tyrosine kinase	-
1	SRSF1 <sup>2</sup>	serine/arginine-rich splicing factor 1	Up-regulation
1	STOML2 <sup>3</sup>	stomatin (EPB72)-like 2	Up-regulation
1	STRAP <sup>3</sup>	serine/threonine kinase receptor associated protein	Up-regulation
1	SVEP1 <sup>16</sup>	sushi, von Willebrand factor type A, EGF and pentraxin domain containing 1	Down-regulation
1	SYTL2 <sup>6</sup>	synaptotagmin-like 2	-
1	TAGLN <sup>3</sup>	transgelin	Up-regulation
1	TCP1 <sup>5</sup>	t-complex 1	Up-regulation
1	TFF3 <sup>13</sup>	trefoil factor 3 (intestinal)	Up-regulation

1	TFG <sup>6</sup>	TRK-fused gene	-
1	TGFB1 <sup>6</sup>	transforming growth factor, beta 1	-
1	THBS2 <sup>16</sup>	thrombospondin 2	Down-regulation
1	TIMP1 <sup>9</sup>	TIMP metallopeptidase inhibitor 1	Down-regulation
1	TKT <sup>11</sup>	transketolase	Up-regulation
1	TLN1 <sup>1</sup>	talin 1	Down-regulation
1	TMIGD1 <sup>17</sup>	transmembrane and immunoglobulin domain containing 1	-
1	TPRSS2 <sup>6</sup>	transmembrane protease, serine 2	-
1	TNC <sup>1</sup>	tenascin C	Down-regulation
1	TP53 <sup>9</sup>	tumor protein p53	Up-regulation
1	TPI1 <sup>3</sup>	triosephosphate isomerase 1	Up-regulation
1	TPT1 <sup>20</sup>	tumor protein, translationally-controlled 1	Up-regulation
1	TRAP1 <sup>14</sup>	TNF receptor-associated protein 1	Up-regulation
1	TTR <sup>15</sup>	transthyretin	Down-regulation
1	TUFM <sup>1</sup>	Tu translation elongation factor, mitochondrial	Up-regulation
1	TXNDC12 <sup>8</sup>	thioredoxin domain containing 12 (endoplasmic reticulum)	Up-regulation
1	UBA1 <sup>1</sup>	ubiquitin-like modifier activating enzyme 1	Up-regulation
1	UCHL1 <sup>10</sup>	ubiquitin carboxyl-terminal esterase L1 (ubiquitin thiolesterase)	-
1	UQCRC2 <sup>11</sup>	ubiquinol-cytochrome c reductase core protein II	Up-regulation
1	UTP18 <sup>17</sup>	UTP18 small subunit (SSU) processome component homolog (yeast)	-
1	WDR1 <sup>7</sup>	WD repeat domain 1	-
1	XRCC6 <sup>3</sup>	X-ray repair complementing defective repair in Chinese hamster cells 6	Up-regulation
1	YWHA <sup>B</sup> <sup>3</sup>	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, beta	Up-regulation
1	YWHA <sup>E</sup> <sup>3</sup>	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon	Up-regulation
1	YWHA <sup>G</sup> <sup>4</sup>	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, gamma	-
1	YWHAZ <sup>3</sup>	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein,	Up-regulation

		zeta	
1	ZBTB7A <sup>10</sup>	zinc finger and BTB domain containing 7A	-
1	ZYX <sup>1</sup>	zyxin	Down-regulation

**Notes:** "1 Up, 2 Down" indicates this protein was once reported as up-regulated and twice reported as down-regulated. "-" indicates literature did not provide expression information. In this table, the frequency with which proteins are reported is not consistent with the frequency of expression because some studies did not provide expression information.

**Supplementary table 2** Detailed information about the proteins in the high & low metastatic tendency of prostate cancer group

The reported frequency	Gene symbol	Protein name	Differentially expressed
4	ACPP <sup>1,5,21,22</sup>	acid phosphatase, prostate	1 Up, 2 Down
4	HSPA5 <sup>1,4,5,23</sup>	heat shock 70kDa protein 5	3 Up, 1 Down
4	VCL <sup>1,2,5,20</sup>	vinculin	2 Up, 2 Down
3	ACTN1 <sup>20,24,25</sup>	actinin, alpha 1	Down-regulation
3	ANXA1 <sup>20,21,25</sup>	annexin A1	1 Up, 1 Down
3	AZGP1 <sup>22,26,27</sup>	alpha-2-glycoprotein 1, zinc-binding	Up-regulation
3	COL6A2 <sup>5,27,28</sup>	collagen, type VI, alpha 2	1 Up, 1 Down
3	DES <sup>1,2,4</sup>	Desmin	Down-regulation
3	FLNA <sup>2,5,20</sup>	filamin A, alpha	Down-regulation
3	LMNA <sup>2,5,11</sup>	lamin A/C	2 Up, 1 Down
3	MDH2 <sup>5,23,25</sup>	malate dehydrogenase 2, NAD (mitochondrial)	2 Up, 1 Down
3	MYH9 <sup>1,20,21</sup>	myosin, heavy chain 9, non-muscle	1 Up, 1 Down
3	TLN1 <sup>1,20,25</sup>	talin 1	1 Up, 1 Down
2	AHNAK <sup>1,20</sup>	AHNAK nucleoprotein	Up-regulation
2	ANPEP <sup>20,25</sup>	alanyl (membrane) aminopeptidase	Down-regulation
2	ANXA11 <sup>20,25</sup>	annexin A11	Up-regulation
2	ANXA3 <sup>20,25</sup>	annexin A3	Down-regulation
2	ANXA5 <sup>5,20</sup>	annexin A5	Up-regulation
2	ANXA7 <sup>20,25</sup>	annexin A7	Up-regulation
2	ARHGDI <sup>4,23</sup>	Rho GDP dissociation inhibitor (GDI) alpha	1 Up, 1 Down
2	ATP5B <sup>4,25</sup>	ATP synthase, H+ transporting, mitochondrial F1 complex, beta polypeptide	1 Up, 1 Down
2	CAPZA1 <sup>5,20</sup>	capping protein (actin filament) muscle Z-line, alpha 1	Up-regulation

2	CNN1 <sup>1,5</sup>	calponin 1, basic, smooth muscle	Down-regulation
2	COL6A1 <sup>2,27</sup>	collagen, type VI, alpha 1	Down-regulation
2	CTSD <sup>2,27</sup>	cathepsin D	Up-regulation
2	EPHA2 <sup>20,28</sup>	EPH receptor A2	-
2	EZR <sup>2,20</sup>	ezrin	Up-regulation
2	GLO1 <sup>2,23</sup>	glyoxalase I	1 Up, 1 Down
2	GSN <sup>2,5</sup>	gelsolin	Down-regulation
2	HSPA1A <sup>4,20</sup>	heat shock 70kDa protein 1A	Down-regulation
2	HSPA8 <sup>4,20</sup>	heat shock 70kDa protein 8	Down-regulation
2	HSPB1 <sup>2,25</sup>	heat shock 27kDa protein 1	1 Up, 1 Down
2	HSPD1 <sup>1,25</sup>	heat shock 60kDa protein 1 (chaperonin)	Up-regulation
2	IGFBP5 <sup>27,28</sup>	insulin-like growth factor binding protein 5	-
2	LGALS3 <sup>5,27</sup>	lectin, galactoside-binding, soluble, 3	Down-regulation
2	LGALS3BP <sup>22,27</sup>	lectin, galactoside-binding, soluble, 3 binding protein	-
2	MYL9 <sup>1,2</sup>	myosin, light chain 9, regulatory	Down-regulation
2	NPM1 <sup>1,23</sup>	nucleophosmin (nucleolar phosphoprotein B23, numatrin)	Up-regulation
2	NUCB1 <sup>25,27</sup>	nucleobindin 1	Down-regulation
2	OGN <sup>5,11</sup>	osteoglycin	Up-regulation
2	P4HB <sup>4,27</sup>	prolyl 4-hydroxylase, beta polypeptide	Down-regulation
2	PAM <sup>27,28</sup>	peptidylglycine alpha-amidating monooxygenase	Up-regulation
2	PDIA3 <sup>1,23</sup>	protein disulfide isomerase family A, member 3	Up-regulation
2	PRDX4 <sup>2,5</sup>	peroxiredoxin 4	Up-regulation
2	SERPINA1 <sup>4,27</sup>	serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1	Down-regulation
2	SFN <sup>21,27</sup>	stratifin	Down-regulation
2	TF <sup>2,21</sup>	transferrin	1 Up, 1 Down
2	TGFB2 <sup>27,28</sup>	transforming growth factor, beta 2	-
2	TIMP1 <sup>21,27</sup>	TIMP metallopeptidase inhibitor 1	Down-regulation
2	TPM3 <sup>20,29</sup>	tropomyosin 3	Up-regulation
2	TUFM <sup>1,24</sup>	Tu translation elongation factor, mitochondrial	Up-regulation
2	VDAC1 <sup>24,25</sup>	voltage-dependent anion channel 1	Up-regulation
1	A1BG <sup>5</sup>	alpha-1-B glycoprotein	Up-regulation
1	ACP1 <sup>29</sup>	acid phosphatase 1, soluble	Up-regulation
1	ACTA1 <sup>2</sup>	actin, alpha 1, skeletal muscle	Down-regulation
1	ACTA2 <sup>20</sup>	actin, alpha 2, smooth muscle, aorta	-
1	ACTB <sup>20</sup>	actin, beta	-
1	ACTN4 <sup>20</sup>	actinin, alpha 4	-
1	ACTR2 <sup>20</sup>	ARP2 actin-related protein 2 homolog	-

		(yeast)	
1	ADAMTS1 <sup>21</sup>	ADAM metallopeptidase with thrombospondin type 1 motif, 1	Down-regulation
1	AGRN <sup>21</sup>	agrin	-
1	AKT1 <sup>23</sup>	v-akt murine thymoma viral oncogene homolog 1	Up-regulation
1	ALB <sup>4</sup>	albumin	Up-regulation
1	ALDH1A3 <sup>25</sup>	aldehyde dehydrogenase 1 family, member A3	Down-regulation
1	ANP32A <sup>25</sup>	acidic (leucine-rich) nuclear phosphoprotein 32 family, member A	Down-regulation
1	ANXA2 <sup>20</sup>	annexin A2	-
1	ANXA4 <sup>5</sup>	annexin A4	Up-regulation
1	ANXA6 <sup>20</sup>	annexin A6	-
1	APEH <sup>25</sup>	acylaminoacyl-peptide hydrolase	Down-regulation
1	APOC3 <sup>26</sup>	apolipoprotein C-III	Up-regulation
1	APP <sup>27</sup>	amyloid beta (A4) precursor protein	-
1	APRT <sup>23</sup>	adenine phosphoribosyltransferase	Down-regulation
1	ARCN1 <sup>2</sup>	archain 1	Down-regulation
1	ARF3 <sup>20</sup>	ADP-ribosylation factor 3	-
1	ARF4 <sup>20</sup>	ADP-ribosylation factor 4	-
1	ARF5 <sup>20</sup>	ADP-ribosylation factor 5	-
1	ARF6 <sup>20</sup>	ADP-ribosylation factor 6	-
1	ARPC2 <sup>20</sup>	actin related protein 2/3 complex, subunit 2, 34kDa	-
1	ARPC3 <sup>20</sup>	actin related protein 2/3 complex, subunit 3, 21kDa	-
1	ARPC4 <sup>20</sup>	actin related protein 2/3 complex, subunit 4, 20kDa	-
1	ARPC5L <sup>20</sup>	actin related protein 2/3 complex, subunit 5-like	-
1	ASPN <sup>1</sup>	asporin	Up-regulation
1	ATP1A1 <sup>20</sup>	ATPase, Na <sup>+</sup> /K <sup>+</sup> transporting, alpha 1 polypeptide	-
1	ATP5H <sup>2</sup>	ATP synthase, H <sup>+</sup> transporting, mitochondrial Fo complex, subunit d	Up-regulation
1	B2M <sup>27</sup>	beta-2-microglobulin	-
1	B3GAT3 <sup>28</sup>	beta-1,3-glucuronyltransferase 3	Up-regulation
1	B4GALT4 <sup>28</sup>	UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 4	Up-regulation
1	BCCIP <sup>25</sup>	BRCA2 and CDKN1A interacting protein	Down-regulation
1	BGN <sup>1</sup>	biglycan	Up-regulation
1	C1S <sup>27</sup>	complement component 1, s	-

		subcomponent	
1	C3 <sup>27</sup>	complement component 3	-
1	CALR <sup>23</sup>	calreticulin	Up-regulation
1	CAP1 <sup>25</sup>	CAP, adenylate cyclase-associated protein 1 (yeast)	Down-regulation
1	CAPRIN1 <sup>25</sup>	cell cycle associated protein 1	Down-regulation
1	CCT2 <sup>2</sup>	chaperonin containing TCP1, subunit 2 (beta)	Up-regulation
1	CCT6A <sup>2</sup>	chaperonin containing TCP1, subunit 6A (zeta 1)	Up-regulation
1	CD59 <sup>28</sup>	CD59 molecule, complement regulatory protein	Up-regulation
1	CDH2 <sup>28</sup>	cadherin 2, type 1, N-cadherin (neuronal)	-
1	CFB <sup>27</sup>	complement factor B	-
1	CFD <sup>27</sup>	complement factor D (adipsin)	-
1	CFL1 <sup>20</sup>	cofilin 1 (non-muscle)	-
1	CHID1 <sup>28</sup>	chitinase domain containing 1	Up-regulation
1	CKB <sup>23</sup>	creatine kinase, brain	Down-regulation
1	CLIC4 <sup>2</sup>	chloride intracellular channel 4	Up-regulation
1	CLTC <sup>20</sup>	clathrin, heavy chain (Hc)	-
1	COL14A1 <sup>5</sup>	collagen, type XIV, alpha 1	Up-regulation
1	COL2A1 <sup>27</sup>	collagen, type II, alpha 1	-
1	COL6A3 <sup>1</sup>	collagen, type VI, alpha 3	Up-regulation
1	COMT <sup>23</sup>	catechol-O-methyltransferase	Down-regulation
1	COTL1 <sup>20</sup>	coactosin-like F-actin binding protein 1	-
1	COX5B <sup>1</sup>	cytochrome c oxidase subunit Vb	Up-regulation
1	CPE <sup>5</sup>	carboxypeptidase E	Down-regulation
1	CS <sup>25</sup>	citrate synthase	Up-regulation
1	CTNNB1 <sup>20</sup>	catenin (cadherin-associated protein), beta 1, 88kDa	-
1	CTNND1 <sup>20</sup>	catenin (cadherin-associated protein), delta 1	-
1	CTSL <sup>27</sup>	cathepsin L	-
1	CTSZ <sup>5</sup>	cathepsin Z	Up-regulation
1	CUL2 <sup>24</sup>	cullin 2	-
1	CXCL3 <sup>27</sup>	chemokine (C-X-C motif) ligand 3	-
1	CYFIP1 <sup>20</sup>	cytoplasmic FMR1 interacting protein 1	-
1	CYR61 <sup>27</sup>	cysteine-rich, angiogenic inducer, 61	-
1	DAG1 <sup>27</sup>	dystroglycan 1 (dystrophin-associated glycoprotein 1)	-
1	DDX3X <sup>25</sup>	DEAD (Asp-Glu-Ala-Asp) box helicase 3, X-linked	Down-regulation
1	DERL1 <sup>24</sup>	derlin 1	-

1	DIP2B <sup>20</sup>	DIP2 disco-interacting protein 2 homolog B (Drosophila)	-
1	DPYSL3 <sup>2</sup>	dihydropyrimidinase-like 3	Down-regulation
1	DRG1 <sup>25</sup>	developmentally regulated GTP binding protein 1	Up-regulation
1	DSTN <sup>20</sup>	destrin (actin depolymerizing factor)	-
1	DYNC1H1 <sup>20</sup>	dynein, cytoplasmic 1, heavy chain 1	-
1	ECH1 <sup>2</sup>	enoyl CoA hydratase 1, peroxisomal	Up-regulation
1	ECHS1 <sup>4</sup>	enoyl CoA hydratase, short chain, 1, mitochondrial	Down-regulation
1	EDIL3 <sup>20</sup>	EGF-like repeats and discoidin I-like domains 3	-
1	EHD1 <sup>20</sup>	EH-domain containing 1	-
1	EHD4 <sup>20</sup>	EH-domain containing 4	-
1	EIF2B2 <sup>25</sup>	eukaryotic translation initiation factor 2B, subunit 2 beta, 39kDa	Down-regulation
1	EIF2S2 <sup>25</sup>	eukaryotic translation initiation factor 2, subunit 2 beta, 38kDa	Up-regulation
1	EIF3A <sup>25</sup>	eukaryotic translation initiation factor 3, subunit A	Up-regulation
1	EPRS <sup>23</sup>	glutamyl-prolyl-tRNA synthetase	Down-regulation
1	ERP29 <sup>2</sup>	endoplasmic reticulum protein 29	Up-regulation
1	FABP5 <sup>2</sup>	fatty acid binding protein 5	Up-regulation
1	FAM3C <sup>25</sup>	family with sequence similarity 3, member C	Down-regulation
1	FARSA <sup>25</sup>	phenylalanyl-tRNA synthetase, alpha subunit	Up-regulation
1	FARSB <sup>25</sup>	phenylalanyl-tRNA synthetase, beta subunit	Up-regulation
1	FBLN1 <sup>27</sup>	fibulin 1	-
1	FGA <sup>1</sup>	fibrinogen alpha chain	Down-regulation
1	FGG <sup>4</sup>	fibrinogen gamma chain	Down-regulation
1	FLNB <sup>20</sup>	filamin B, beta	-
1	FLNC <sup>20</sup>	filamin C, gamma	-
1	FN1 <sup>27</sup>	fibronectin 1	-
1	FOLH1 <sup>22</sup>	folate hydrolase (prostate-specific membrane antigen) 1	-
1	FSCN1 <sup>20</sup>	fascin actin-bundling protein 1	-
1	FSTL1 <sup>27</sup>	follistatin-like 1	-
1	FTL <sup>2</sup>	ferritin, light polypeptide	Up-regulation
1	FUS <sup>24</sup>	FUS RNA binding protein	-
1	G6PD <sup>5</sup>	glucose-6-phosphate dehydrogenase	Down-regulation
1	GALNT2 <sup>27</sup>	polypeptide	-

		N-acetylgalactosaminyltransferase 2	
1	GALNT6 <sup>27</sup>	polypeptide N-acetylgalactosaminyltransferase 6	-
1	GBA <sup>28</sup>	glucosidase, beta, acid	Up-regulation
1	GDF15 <sup>27</sup>	growth differentiation factor 15	-
1	GGCT <sup>2</sup>	gamma-glutamylcyclotransferase	Up-regulation
1	GLUD1 <sup>1</sup>	glutamate dehydrogenase 1	Up-regulation
1	GNAI2 <sup>20</sup>	guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 2	-
1	GPD1 <sup>4</sup>	glycerol-3-phosphate dehydrogenase 1 (soluble)	Down-regulation
1	GPI <sup>25</sup>	glucose-6-phosphate isomerase	Down-regulation
1	GRN <sup>27</sup>	granulin	-
1	GSTM2 <sup>2</sup>	glutathione S-transferase mu 2 (muscle)	Down-regulation
1	GSTP1 <sup>2</sup>	glutathione S-transferase pi 1	Down-regulation
1	H1F0 <sup>1</sup>	H1 histone family, member 0	Down-regulation
1	HAGH <sup>5</sup>	hydroxyacylglutathione hydrolase	Up-regulation
1	HEXB <sup>2</sup>	hexosaminidase B (beta polypeptide)	Up-regulation
1	HMGB1 <sup>29</sup>	high mobility group box 1	Up-regulation
1	HNRNPA3 <sup>23</sup>	heterogeneous nuclear ribonucleoprotein A3	Down-regulation
1	HNRNPC <sup>2</sup>	heterogeneous nuclear ribonucleoprotein C (C1/C2)	Up-regulation
1	HNRNPD <sup>25</sup>	heterogeneous nuclear ribonucleoprotein D (AU-rich element RNA binding protein 1, 37kDa)	Up-regulation
1	HNRNPH1 <sup>1</sup>	heterogeneous nuclear ribonucleoprotein H1 (H)	Up-regulation
1	HP <sup>26</sup>	haptoglobin	Up-regulation
1	HPR <sup>2</sup>	haptoglobin-related protein	Down-regulation
1	HSP90AA1 <sup>20</sup>	heat shock protein 90kDa alpha (cytosolic), class A member 1	-
1	HSP90AB1 <sup>20</sup>	heat shock protein 90kDa alpha (cytosolic), class B member 1	-
1	HSP90B1 <sup>23</sup>	heat shock protein 90kDa beta (Grp94), member 1	Up-regulation
1	HSPA9 <sup>24</sup>	heat shock 70kDa protein 9 (mortalin)	-
1	HSPE1 <sup>1</sup>	heat shock 10kDa protein 1	Up-regulation
1	HSPG2 <sup>27</sup>	heparan sulfate proteoglycan 2	-
1	HTRA1 <sup>28</sup>	HtrA serine peptidase 1	Up-regulation
1	ICAM1 <sup>28</sup>	intercellular adhesion molecule 1	-
1	IGFBP2 <sup>27</sup>	insulin-like growth factor binding protein 2,	-

		36kDa	
1	IGFBP4 <sup>28</sup>	insulin-like growth factor binding protein 4	-
1	IGFBP6 <sup>27</sup>	insulin-like growth factor binding protein 6	-
1	IGHG1 <sup>5</sup>	immunoglobulin heavy constant gamma 1 (G1m marker)	Down-regulation
1	IL6 <sup>27</sup>	interleukin 6	-
1	IMPA1 <sup>2</sup>	inositol(myo)-1(or 4)-monophosphatase 1	Up-regulation
1	INHBA <sup>27</sup>	inhibin, beta A	-
1	INHBB <sup>27</sup>	inhibin, beta B	-
1	ITGA2 <sup>20</sup>	integrin, alpha 2 (CD49B, alpha 2 subunit of VLA-2 receptor)	-
1	ITGA3 <sup>20</sup>	integrin, alpha 3 (antigen CD49C, alpha 3 subunit of VLA-3 receptor)	-
1	ITGA6 <sup>20</sup>	integrin, alpha 6	-
1	ITGB1 <sup>20</sup>	integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, MSK12)	-
1	ITGB4 <sup>20</sup>	integrin, beta 4	-
1	JUP <sup>20</sup>	junction plakoglobin	-
1	KARS <sup>20</sup>	lysyl-tRNA synthetase	Up-regulation
1	KCTD12 <sup>5</sup>	potassium channel tetramerization domain containing 12	Down-regulation
1	KLK11 <sup>22</sup>	kallikrein-related peptidase 11	Up-regulation
1	KLK2 <sup>22</sup>	kallikrein-related peptidase 2	-
1	KLK5 <sup>27</sup>	kallikrein-related peptidase 5	-
1	KLK6 <sup>27</sup>	kallikrein-related peptidase 6	-
1	KRT1 <sup>11</sup>	keratin 1	-
1	KRT10 <sup>2</sup>	keratin 10	Up-regulation
1	KRT8 <sup>2</sup>	keratin 8	Up-regulation
1	LAMC2 <sup>27</sup>	laminin, gamma 2	-
1	LCN1 <sup>25</sup>	lipocalin 1	Down-regulation
1	LCN2 <sup>27</sup>	lipocalin 2	-
1	LCP1 <sup>20</sup>	lymphocyte cytosolic protein 1 (L-plastin)	-
1	LDHB <sup>2</sup>	lactate dehydrogenase B	Down-regulation
1	LGALS1 <sup>2</sup>	lectin, galactoside-binding, soluble, 1	Down-regulation
1	LMAN1 <sup>23</sup>	lectin, mannose-binding, 1	Down-regulation
1	LMNB1 <sup>2</sup>	lamin B1	Up-regulation
1	LRG1 <sup>27</sup>	leucine-rich alpha-2-glycoprotein 1	-
1	LTBP1 <sup>28</sup>	latent transforming growth factor beta binding protein 1	Up-regulation
1	LTBP2 <sup>27</sup>	latent transforming growth factor beta binding protein 2	-
1	LTBP3 <sup>28</sup>	latent transforming growth factor beta	Up-regulation

		binding protein 3	
1	MAN1A1 <sup>28</sup>	mannosidase, alpha, class 1A, member 1	Up-regulation
1	MAP2K2 <sup>2</sup>	mitogen-activated protein kinase kinase 2	Up-regulation
1	MARCKS <sup>20</sup>	myristoylated alanine-rich protein kinase C substrate	-
1	MCCC2 <sup>2</sup>	methylcrotonyl-CoA carboxylase 2 (beta)	Up-regulation
1	MDK <sup>27</sup>	midkine (neurite growth-promoting factor 2	-
1	MGAT5 <sup>28</sup>	mannosyl (alpha-1,6-)-glycoprotein beta-1,6-N-acetyl-glucosaminyltransferase	Up-regulation
1	MME <sup>21</sup>	membrane metallo-endopeptidase	Down-regulation
1	MMP1 <sup>28</sup>	matrix metallopeptidase 1 (interstitial collagenase)	-
1	MSN <sup>20</sup>	moesin	-
1	MUC5B <sup>27</sup>	mucin 5B, oligomeric mucus/gel-forming	-
1	MYDGF <sup>27</sup>	myeloid-derived growth factor	-
1	MYO1B <sup>20</sup>	myosin IB	-
1	MYO1C <sup>20</sup>	myosin IC	-
1	MYO1D <sup>20</sup>	myosin ID	-
1	MYOF <sup>20</sup>	myoferlin	-
1	NAPA <sup>20</sup>	N-ethylmaleimide-sensitive factor attachment protein, alpha	-
1	NCKAP1 <sup>20</sup>	NCK-associated protein 1	-
1	NFE2L2 <sup>25</sup>	nuclear factor, erythroid 2-like 2	Down-regulation
1	NME1 <sup>2</sup>	NME/NM23 nucleoside diphosphate kinase 1	Up-regulation
1	NME2 <sup>1</sup>	NME/NM23 nucleoside diphosphate kinase 2	Up-regulation
1	NPC2 <sup>27</sup>	Niemann-Pick disease, type C2	-
1	OXCT1 <sup>2</sup>	3-oxoacid CoA transferase 1	Up-regulation
1	PA2G4 <sup>25</sup>	proliferation-associated 2G4, 38kDa	Up-regulation
1	PABPC1 <sup>25</sup>	poly(A) binding protein, cytoplasmic 1	Up-regulation
1	PARK7 <sup>21</sup>	parkinson protein 7	Down-regulation
1	PCSK1N <sup>28</sup>	proprotein convertase subtilisin/kexin type 1 inhibitor	Up-regulation
1	PDCD6IP <sup>20</sup>	programmed cell death 6 interacting protein	-
1	PDIA4 <sup>1</sup>	protein disulfide isomerase family A, member 4	Up-regulation
1	PDIA6 <sup>23</sup>	protein disulfide isomerase family A, member 6	Up-regulation
1	PDSS2 <sup>24</sup>	prenyl (decaprenyl) diphosphate synthase, subunit 2	-

1	PFN1 <sup>20</sup>	profilin 1	-
1	PGAM1 <sup>29</sup>	phosphoglycerate mutase 1	Up-regulation
1	PGM3 <sup>5</sup>	phosphoglucomutase 3	Down-regulation
1	PGRMC1 <sup>28</sup>	progesterone receptor membrane component 1	Up-regulation
1	PHB2 <sup>25</sup>	prohibitin 2	Up-regulation
1	PKM <sup>20</sup>	pyruvate kinase, muscle	-
1	PLAG1 <sup>24</sup>	pleiomorphic adenoma gene 1	-
1	PLAU <sup>27</sup>	plasminogen activator, urokinase	-
1	PLEC <sup>20</sup>	plectin	-
1	PLG <sup>27</sup>	plasminogen	-
1	PLS3 <sup>20</sup>	plastin 3	-
1	PLTP <sup>27</sup>	phospholipid transfer protein	-
1	PLXNB2 <sup>20</sup>	plexin B2	-
1	POSTN <sup>1</sup>	periostin, osteoblast specific factor	Up-regulation
1	PPA2 <sup>2</sup>	pyrophosphatase (inorganic) 2	Up-regulation
1	PPIA <sup>20</sup>	peptidylprolyl isomerase A (cyclophilin A)	-
1	PRDX2 <sup>23</sup>	peroxiredoxin 2	Down-regulation
1	PRDX3 <sup>25</sup>	peroxiredoxin 3	Up-regulation
1	PRDX6 <sup>29</sup>	peroxiredoxin 6	Up-regulation
1	PRKACA <sup>25</sup>	protein kinase, cAMP-dependent, catalytic, alpha	Down-regulation
1	PRKAR1A <sup>25</sup>	protein kinase, cAMP-dependent, regulatory, type I, alpha	Down-regulation
1	PRKCDBP <sup>1</sup>	protein kinase C, delta binding protein	Down-regulation
1	PROS1 <sup>28</sup>	protein S (alpha)	Up-regulation
1	PSAP <sup>27</sup>	prosaposin	-
1	PTGES3 <sup>25</sup>	prostaglandin E synthase 3 (cytosolic)	Down-regulation
1	PTGR2 <sup>5</sup>	prostaglandin reductase 2	Down-regulation
1	PTMA <sup>23</sup>	prothymosin, alpha	Up-regulation
1	PTPRS <sup>21</sup>	protein tyrosine phosphatase, receptor type, S	Down-regulation
1	PTX3 <sup>27</sup>	pentraxin 3, long	-
1	PYGB <sup>5</sup>	phosphorylase, glycogen; brain	Down-regulation
1	RAB10 <sup>20</sup>	RAB10, member RAS oncogene family	-
1	RAB11A <sup>20</sup>	RAB10, member RAS oncogene family	-
1	RAB12 <sup>20</sup>	RAB11A, member RAS oncogene family	-
1	RAB13 <sup>20</sup>	RAB12, member RAS oncogene family	-
1	RAB14 <sup>20</sup>	RAB13, member RAS oncogene family	-
1	RAB1A <sup>20</sup>	RAB14, member RAS oncogene family	-
1	RAB1B <sup>20</sup>	RAB1A, member RAS oncogene family	-
1	RAB22A <sup>20</sup>	RAB1B, member RAS oncogene family	-
1	RAB27B <sup>20</sup>	RAB27B, member RAS oncogene family	-

1	RAB35 <sup>20</sup>	RAB35, member RAS oncogene family	-
1	RAB5A <sup>20</sup>	RAB5A, member RAS oncogene family	-
1	RAB5B <sup>20</sup>	RAB5B, member RAS oncogene family	-
1	RAB7A <sup>20</sup>	RAB7A, member RAS oncogene family	-
1	RAB8A <sup>20</sup>	RAB8A, member RAS oncogene family	-
1	RAB8B <sup>20</sup>	RAB8B, member RAS oncogene family	-
1	RDX <sup>20</sup>	radixin	-
1	RNASET2 <sup>27</sup>	ribonuclease T2	-
1	ROBO1 <sup>28</sup>	roundabout, axon guidance receptor, homolog 1 ( <i>Drosophila</i> )	Up-regulation
1	RPL10A <sup>1</sup>	ribosomal protein L10a	Up-regulation
1	RPL14 <sup>25</sup>	ribosomal protein L14	Down-regulation
1	RPS6 <sup>24</sup>	ribosomal protein S6	-
1	RPSA <sup>25</sup>	ribosomal protein SA	Up-regulation
1	S100A8 <sup>27</sup>	S100 calcium binding protein A8	-
1	S100A9 <sup>27</sup>	S100 calcium binding protein A9	-
1	SCRN1 <sup>5</sup>	secernin 1	Down-regulation
1	SDHA <sup>2</sup>	succinate dehydrogenase complex, subunit A, flavoprotein (Fp)	Up-regulation
1	SDPR <sup>1</sup>	serum deprivation response	Down-regulation
1	SEC13 <sup>2</sup>	SEC13 homolog ( <i>S. cerevisiae</i> )	Up-regulation
1	SEMA3F <sup>27</sup>	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3F	-
1	SERBP1 <sup>25</sup>	SERPINE1 mRNA binding protein 1	Up-regulation
1	SMAD2 <sup>24</sup>	SMAD family member 2	-
1	SMAD4 <sup>24</sup>	SMAD family member 4	-
1	SORBS1 <sup>1</sup>	sorbin and SH3 domain containing 1	Down-regulation
1	SORD <sup>1</sup>	sorbitol dehydrogenase	Up-regulation
1	SPINT1 <sup>27</sup>	serine peptidase inhibitor, Kunitz type 1	-
1	SRSF1 <sup>2</sup>	serine/arginine-rich splicing factor 1	Down-regulation
1	STC2 <sup>27</sup>	stanniocalcin 2	-
1	STOML2 <sup>2</sup>	stomatin (EPB72)-like 2	Up-regulation
1	STX4 <sup>20</sup>	syntaxin 4	-
1	STXBP3 <sup>20</sup>	syntaxin binding protein 3	-
1	SYNCRIP <sup>25</sup>	synaptotagmin binding, cytoplasmic RNA interacting protein	Up-regulation
1	SYNJ2 <sup>25</sup>	synaptojanin 2	Down-regulation
1	SYNM <sup>5</sup>	synemin, intermediate filament protein	Up-regulation
1	TAGLN <sup>2</sup>	transgelin	Down-regulation
1	TALDO1 <sup>23</sup>	transaldolase 1	Up-regulation
1	TCP1 <sup>5</sup>	t-complex 1	Up-regulation
1	TGM2 <sup>25</sup>	transglutaminase 2	Down-regulation

1	TGM4 <sup>21</sup>	transglutaminase 4	Down-regulation
1	THBS1 <sup>27</sup>	thrombospondin 1	-
1	TIMP2 <sup>27</sup>	TIMP metallopeptidase inhibitor 2	-
1	TINAGL1 <sup>27</sup>	tubulointerstitial nephritis antigen-like 1	-
1	TLR9 <sup>27</sup>	toll-like receptor 9	-
1	TPI1 <sup>29</sup>	triosephosphate isomerase 1	Up-regulation
1	TPM1 <sup>1</sup>	tropomyosin 1 (alpha)	Down-regulation
1	TPM2 <sup>4</sup>	tropomyosin 2 (beta)	Up-regulation
1	TPT1 <sup>27</sup>	tumor protein, translationally-controlled 1	-
1	TTC38 <sup>5</sup>	tetratricopeptide repeat domain 38	Down-regulation
1	TUBA1B <sup>20</sup>	tubulin, alpha 1b	-
1	TUBB <sup>20</sup>	tubulin, beta class I	-
1	TUBB4A <sup>20</sup>	tubulin, beta 4A class IVa	-
1	TUBB4B <sup>4</sup>	tubulin, beta 4B class IVb	Up-regulation
1	TWSG1 <sup>28</sup>	twisted gastrulation BMP signaling modulator 1	Up-regulation
1	UBE2N <sup>2</sup>	ubiquitin-conjugating enzyme E2N	Up-regulation
1	UCHL1 <sup>2</sup>	ubiquitin carboxyl-terminal esterase L1 (ubiquitin thiolesterase)	Down-regulation
1	VAMP8 <sup>20</sup>	vesicle-associated membrane protein 8	-
1	VIM <sup>25</sup>	vimentin	Up-regulation
1	YBX1 <sup>24</sup>	Y box binding protein 1	-
1	YWHA <sup>B20</sup>	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, beta	-
1	YWHA <sup>E20</sup>	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon	-
1	YWHA <sup>G4</sup>	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, gamma	Up-regulation
1	YWHA <sup>Q20</sup>	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta	-
1	YWHA <sup>Z20</sup>	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta	-
1	ZYX <sup>1</sup>	zyxin	Down-regulation

**Notes:** "1 Up, 2 Down" indicates this protein was once reported as up-regulated and twice reported as down-regulated. "-" indicates literature did not provide expression information. In this table, the frequency with which proteins are reported is not consistent with the frequency of expression because some studies did not provide expression information.

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