

Supplemental Table 4: Expression of genes associated with over-represented keywords

hypoxia	angiogenesis	tnf	apoptosis	interferon	resistance	metastasis	kidney	log ₂ ratio	Gene Symbol*	Title
■	■		■					4.6	ANGPTL4	angiopoietin-like 4
■						■	■	4.1	CA9	carbonic anhydrase IX
		■						4.0	TNFAIP6	tumor necrosis factor, alpha-induced protein 6
	■							3.5	ANGPT2	angiopoietin 2
		■						3.4	C3	complement component 3
■			■					3.3	IGFBP3	insulin-like growth factor binding protein 3
					■			3.1	VWF	von Willebrand factor
						■	■	3.0	GPR54	G protein-coupled receptor 54
		■	■					3.0	TNFSF7	tumor necrosis factor (ligand) superfamily, member 7
							■	3.0	RGS5	regulator of G-protein signalling 5
								2.9	GBP5	guanylate binding protein 5
■								2.9	HIG2	hypoxia-inducible protein 2
			■					2.8	NOL3	nucleolar protein 3 (apoptosis repressor with CARD domain)
		■	■	■	■	■	■	2.7	CXCR4	chemokine (C-X-C motif) receptor 4
							■	2.7	CAV1	caveolin 1, caveolae protein, 22kDa
			■					2.5	ASC	apoptosis-associated speck-like protein containing a CARD
	■							2.5	HEY1	hairy/enhancer-of-split related with YRPW motif 1
			■					2.4	LGALS1	lectin, galactoside-binding, soluble, 1 (galectin 1)
		■						2.4	ITGA4	integrin, alpha 4 (antigen CD49D, alpha 4 subunit of VLA-4 receptor)
					■			2.3	MNDA	myeloid cell nuclear differentiation antigen
					■			2.3	ISG20	interferon stimulated gene 20kDa
			■					2.3	KIAA1373	KIAA1373 protein
			■					2.2	SCARB1	scavenger receptor class B, member 1
					■			2.1	PLA2G7	phospholipase A2, group VII
			■					2.1	ARHGDI3	Rho GDP dissociation inhibitor (GDI) beta
■			■					2.1	RTP801	HIF-1 responsive RTP801
	■							2.1	SDC3	syndecan 3 (N-syndecan)
			■					2.1	LMNB1	lamin B1
		■	■					2.0	TNFSF13B	tumor necrosis factor (ligand) superfamily, member 13b
	■							2.0	PECAM1	platelet/endothelial cell adhesion molecule (CD31 antigen)
			■					2.0	LZTS1	leucine zipper, putative tumor suppressor 1
							■	2.0	STC2	stanniocalcin 2
		■						2.0	CD86	CD86 antigen (CD28 antigen ligand 2, B7-2 antigen)
			■					2.0	ENTPD1	ectonucleoside triphosphate diphosphohydrolase 1
		■					■	2.0	ITGB2	integrin, beta 2 (antigen CD18 (p95) beta subunit)
							■	1.9	CST	cerebroside sulfotransferase
	■							1.9	TIE	tyrosine kinase with immunoglobulin and epidermal GF homology domains
		■	■					1.9	PTPRC	protein tyrosine phosphatase, receptor type, C

	■	1.9	PSMB9	proteasome (prosome, macropain) subunit, beta type, 9
	■	1.9	PRF1	perforin 1 (pore forming protein)
		1.9	ITGA5	integrin, alpha 5 (fibronectin receptor, alpha polypeptide)
	■ ■ ■ ■ ■	1.9	CCR5	chemokine (C-C motif) receptor 5
	■	1.8	BIRC5	baculoviral IAP repeat-containing 5 (survivin)
■ ■ ■ ■ ■ ■ ■	■	1.8	CCL5	chemokine (C-C motif) ligand 5
■		1.8	PLOD2	procollagen-lysine, 2-oxoglutarate 5-dioxygenase (lysine hydroxylase) 2
		1.8	GPR4	G protein-coupled receptor 4
	■	1.8	GZMB	granzyme B
	■ ■	1.8	TLR2	toll-like receptor 2
	■	1.8	GBP2	guanylate binding protein 2, interferon-inducible
	■	1.8	LOC64167	aminopeptidase
■		1.8	ADORA3	adenosine A3 receptor
	■	1.7	GNLY	granulysin
	■	1.7	MCAM	melanoma cell adhesion molecule
	■	1.7	D2S448	Melanoma associated gene
■	■	1.7	BIRC3	baculoviral IAP repeat-containing 3
	■	1.7	CX3CR1	chemokine (C-X3-C motif) receptor 1
	■	1.7	C1QA	complement component 1, q subcomponent, alpha polypeptide
		1.7	SEMA5B	sema domain, seven thrombospondin repeats (type 1 and type 1-like)
■ ■ ■ ■ ■	■	1.7	EDN1	endothelin 1
	■	1.7	TIMP1	tissue inhibitor of metalloproteinase 1
	■	1.7	ARRB2	arrestin, beta 2
■ ■ ■ ■ ■ ■ ■	■	1.7	VEGF	vascular endothelial growth factor
■		1.7	DKFZp434K1210	hypothetical protein DKFZp434K1210
	■	1.6	FXYS5	FXYS domain containing ion transport regulator 5
■		1.6	ESM1	endothelial cell-specific molecule 1
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	■	-8.6	UMOD	uromodulin (uromucoid, Tamm-Horsfall glycoprotein)
	■	-7.4	KNG	kininogen
■	■	-6.5	RHCG	Rh type C glycoprotein
	■	-6.5	SLC12A1	solute carrier family 12 (sodium/potassium/chloride transporters)
	■	-6.4	FABP1	fatty acid binding protein 1, liver
	■	-6.4	CALB1	calbindin 1, 28kDa
	■	-5.8	SLC13A2	solute carrier family 13 (sodium-dependent dicarboxylate transporter)
	■	-5.8	CYP4F2	cytochrome P450, subfamily IVF, polypeptide 2
	■	-5.7	PLG	plasminogen
	■	-5.3	SLC22A12	solute carrier family 22 (organic anion/cation transporter), member 12
	■	-5.1	CLCNKB	chloride channel Kb
	■	-5.0	SLC34A1	solute carrier family 34 (sodium phosphate), member 1
■ ■	■	-4.7	SLC26A7	solute carrier family 26, member 7
■		-4.5	DPEP1	dipeptidase 1 (renal)
	■	-4.5	ATP6V1B1	ATPase, H ⁺ transporting, lysosomal 56/58kDa, V1 subunit B, isoform 1
■		-4.4	CLDN8	claudin 8
	■	-4.3	XAT2	amino acid transporter XAT2
	■	-4.3	PCK1	phosphoenolpyruvate carboxykinase 1 (soluble)
	■	-4.3	KCNJ1	potassium inwardly-rectifying channel, subfamily J, member 1

■	■	-4.3 SLC4A1	solute carrier family 4, anion exchanger, member 1
	■	-4.1 ATP6V0A4	ATPase, H ⁺ transporting, lysosomal V0 subunit a isoform 4
■		-4.1 PTHR1	parathyroid hormone receptor 1
	■	-4.0 SLC13A1	solute carrier family 13 (sodium/sulfate symporters), member 1
	■	-3.8 SLC4A9	solute carrier family 4, sodium bicarbonate cotransporter, member 9
	■	-3.7 S100A2	S100 calcium binding protein A2
	■	-3.6 CLCNKA	chloride channel Ka
■		-3.6 SFRP1	secreted frizzled-related protein 1
	■	-3.4 DCXR	dicarbonyl/L-xylulose reductase
■		-3.3 FGF1	fibroblast growth factor 1 (acidic)
	■	-3.2 SLC12A3	solute carrier family 12 (sodium/chloride transporters), member 3
	■	-3.1 HPGD	hydroxyprostaglandin dehydrogenase 15-(NAD)
	■	-3.1 NPHS1	nephrosis 1, congenital, Finnish type (nephrin)
■		-3.1 C7	complement component 7
	■	-2.9 CYP4A11	cytochrome P450, subfamily IVA, polypeptide 11
■		-2.9 DUSP9	dual specificity phosphatase 9
	■	-2.8 DLEC1	deleted in lung and esophageal cancer 1
	■	-2.8 SEMA3B	sema domain, immunoglobulin domain (Ig), short basic domain, 3B
	■	-2.7 KL	klotho
	■	-2.7 SLC5A2	solute carrier family 5 (sodium/glucose cotransporter), member 2
	■	-2.6 SCNN1B	sodium channel, nonvoltage-gated 1, beta (Liddle syndrome)
	■	-2.5 NAP1	pronapsin A
	■	-2.5 ODZ2	odd Oz/ten-m homolog 2 (Drosophila, mouse)
	■	-2.4 CA2	carbonic anhydrase II
■		-2.4 AQP2	aquaporin 2 (collecting duct)
	■	-2.4 SLC17A1	solute carrier family 17 (sodium phosphate), member 1
	■	-2.3 TINAG	tubulointerstitial nephritis antigen
	■	-2.3 SLC22A7	solute carrier family 22 (organic anion transporter), member 7
	■	-2.2 FLJ25217	hypothetical protein FLJ25217
	■	-2.2 RGS3	regulator of G-protein signalling 3
	■	-2.2 LOC56898	oxidoreductase UCPA
	■	-2.2 GSTM3	glutathione S-transferase M3 (brain)
	■	-2.2 CA4	carbonic anhydrase IV
	■	-2.2 CRHBP	corticotropin releasing hormone binding protein
	■	-2.1 BPI	bactericidal/permeability-increasing protein
■	■	-2.1 DKFZP564O0823	DKFZP564O0823 protein
■	■	-2.1 IL17BR	interleukin 17B receptor
	■	-2.0 CXCL14	chemokine (C-X-C motif) ligand 14
	■	-2.0 ABCC6	ATP-binding cassette, sub-family C (CFTR/MRP), member 6
	■	-2.0 SAH	SA hypertension-associated homolog (rat)
■	■	-2.0 NQO2	NAD(P)H dehydrogenase, quinone 2
	■	-2.0 HRG	histidine-rich glycoprotein
	■	-2.0 DD96	epithelial protein up-regulated in carcinoma
	■	-1.9 MT2A	metallothionein 2A
	■	-1.9 ANPEP	alanyl (membrane) aminopeptidase
	■	-1.9 GPHN	gephyrin

■	-1.9	KCNK10	potassium channel, subfamily K, member 10
■	-1.9	RBP5	retinol binding protein 5, cellular
■	-1.9	BMP7	bone morphogenetic protein 7 (osteogenic protein 1)
■	-1.9	GABARAPL1	GABA(A) receptor-associated protein like 1
■	-1.9	PDCD8	programmed cell death 8 (apoptosis-inducing factor)
■	-1.8	IGFBP2	insulin-like growth factor binding protein 2, 36kDa
■	-1.8	GGT2	gamma-glutamyltransferase 2
■	-1.8	MST1	macrophage stimulating 1 (hepatocyte growth factor-like)
■	-1.8	FHIT	fragile histidine triad gene
■	-1.8	CHI3L1	chitinase 3-like 1 (cartilage glycoprotein-39)
■	-1.8	BDKRB2	bradykinin receptor B2
■	-1.8	MEST	mesoderm specific transcript homolog (mouse)
■	-1.7	CYFIP2	cytoplasmic FMR1 interacting protein 2
■	-1.7	PAX2	paired box gene 2
■	-1.7	FUT3	fucosyltransferase 3 (galactoside 3(4)-L-fucosyltransferase)
■	-1.6	SLC22A2	solute carrier family 22 (organic cation transporter), member 2
■	-1.6	ABCB1	ATP-binding cassette, sub-family B (MDR/TAP), member 1
■	-1.6	PRKCE	protein kinase C, epsilon
■	-1.6	ALPL	alkaline phosphatase, liver/bone/kidney

* The gene symbol we report is the one used in the unigene database as recorded in the NETAFFX database (version March 1, 2003)