

Table 2. Dominant gene signatures induced by TGF- β 1 in the mesenchymal MDA-MB-231 CN and MDA-MB-231 H2 cell lines.

Sequence Name	Sequence Description	Fold Δ MB-231 CN	Fold Δ MB-231 H2	Gene Ontology
<i>TGF-β induced genes</i>				
ANGPTL4	angiopoietin-like 4		3.34	Angiogenesis
EDN1	endothelin 1, ET-1	2.87	2.45	Angiogenesis
VEGF	vascular endothelial growth factor		2.16 ⁴	Angiogenesis
DAAM1	dishevelled associated activator of morphogenesis 1		3.58	Cytoskeleton Regulation
FSCN1	fascin homolog 1, actin-bundling protein		2.71	Cytoskeleton Regulation
KRT7	keratin 7		1.71	Cytoskeleton Regulation
KRTHB1	keratin, hair, basic, 1		1.70	Cytoskeleton Regulation
MYO10	myosin X	2.13	2.16	Cytoskeleton Regulation
NEDD9	neural precursor cell, developmentally down-regulated 9		2.56	Cytoskeleton Regulation
PLEK2	pleckstrin 2	4.62	3.80	Cytoskeleton Regulation
PODXL	podocalyxin-like	3.07	1.92	Cytoskeleton Regulation
PDLIM4	LIM domain protein, RIL		1.95	Cytoskeleton Regulation
SMTN	smoothelin		2.02	Cytoskeleton Regulation
SPAG4	sperm associated antigen 4		2.60	Cytoskeleton Regulation
TAGLN	transgelin	2.21	3.35	Cytoskeleton Regulation
TPM1	tropomyosin 1 (alpha)	1.90 ³	2.42 ³	Cytoskeleton Regulation
TUBA3	tubulin, alpha 3		2.04	Cytoskeleton Regulation
COL1A1	collagen, type I, alpha 1	10.10	18.47 ²	ECM/ Adhesion
COL4A1	collagen, type IV, alpha 1	5.08 ²	3.94 ²	ECM/ Adhesion
COL4A2	collagen, type IV, alpha 2	3.10 ²	2.40 ²	ECM/ Adhesion
COL5A1	collagen, type V, alpha 1		3.71 ³	ECM/ Adhesion
COL6A3	collagen, type VI, alpha 3		20.61	ECM/ Adhesion
COL7A1	collagen, type VII, alpha 1		3.74 ²	ECM/ Adhesion
FN1	fibronectin 1		2.22 ⁴	ECM/ Adhesion
ITGA2	integrin, alpha 2 (CD49B, alpha 2, VLA-2 receptor)		1.85	ECM/ Adhesion
ITGA5	integrin, alpha 5 (fibronectin receptor)		2.58	ECM/ Adhesion
ITGB1	integrin, beta 1 (fibronectin receptor, beta polypeptide)		3.13	ECM/ Adhesion
LAMC2	laminin, gamma 2		7.84 ²	ECM/ Adhesion
MFAP2	microfibrillar-associated protein 2		2.15	ECM/ Adhesion
SDC1	syndecan 1		2.25 ²	ECM/ Adhesion
THBS1	thrombospondin 1	5.15 ⁴	3.03 ⁴	ECM/ Adhesion
CLDN4	claudin 4		1.78	ECM/ Adhesion
ADAM19	a disintegrin and metalloproteinase domain 19	2.42	3.12	Protease & Inhibitors
FURIN	furin (paired basic amino acid cleaving enzyme)	2.57	2.56	Protease & Inhibitors
MMP14	matrix metalloproteinase 14 (membrane-inserted)	2.19	1.85 ²	Protease & Inhibitors
PRSS3	protease, serine, 3 (mesotrypsin)		3.19 ²	Protease & Inhibitors
PLAU	plasminogen activator, urokinase	2.02 ²	2.76 ²	Protease & Inhibitors/ECM
PLAUR	plasminogen activator, urokinase receptor		1.70	Protease & Inhibitors/ECM
SERPINE1	PAI-1 plasminogen activator inhibitor type 1	5.80 ²	3.74 ³	Protease & Inhibitors/ECM
BMP1	bone morphogenetic protein 1		2.29	Secreted Factor
FSTL3	folliculin-like 3 (secreted glycoprotein)	2.31	3.00	Secreted Factor
IL11	interleukin 11	2.78	2.13 ²	Secreted Factor
JAG1	jagged 1 (Alagille syndrome)	1.98	1.99	Secreted Factor
LTBP2	latent transforming growth factor beta binding protein 2	2.44	3.12	Secreted Factor
LTBP3	latent transforming growth factor beta binding protein 3		3.26	Secreted Factor
STC1	stanniocalcin 1	2.99 ²	2.01 ³	Secreted Factor
TGFB1	transforming growth factor, beta 1	5.77	3.98 ²	Secreted Factor
WNT5B	wingless-type MMTV integration site family, member 5B	1.80	5.82	Secreted Factor
CGB	chorionic gonadotropin, beta polypeptide	18.25	45.95	Secreted Factor
ARHB	RhoB	2.83	1.91	Signal Transduction
ARHD	ras homolog gene family, member D		9.26	Signal Transduction
CSF1R	colony stimulating factor 1 receptor, (v-fms) oncogene		7.16	Signal Transduction
EPHB2	EphB2	5.09	6.30 ⁴	Signal Transduction
MADH7	MAD, mothers against decapentaplegic homolog 7	2.16	5.79	Signal Transduction
MAPK13	mitogen-activated protein kinase 13		2.28	Signal Transduction
MAPK8IP3	mitogen-activated protein kinase 8 interacting protein 3		2.02	Signal Transduction
PIK3CD	phosphoinositide-3-kinase, catalytic, delta polypeptide		2.46	Signal Transduction
RAB31	RAB31, member RAS oncogene family		1.82	Signal Transduction
RALB	v-ral simian leukemia viral oncogene homolog B		1.93 ²	Signal Transduction
SGNE1	secretory granule, neuroendocrine protein 1		10.38	Signal Transduction
SPEC1	small protein effector 1 of Cdc42	1.92	1.97	Signal Transduction
TMEPAI	transmembrane, prostate androgen induced RNA	7.85	9.08	Signal Transduction
ABL1	v-abl Abelson murine leukemia viral oncogene 1		1.95	Signal Transduction
NET1	neuroepithelial cell transforming gene 1		2.25 ²	Signal Transduction
PINK1	PTEN induced putative kinase 1		1.98 ²	Signal Transduction
PORCN	likely ortholog of mouse porcupine homolog, PPN		2.49	Signal Transduction
PTPRK	protein tyrosine phosphatase, receptor type, K	1.85	2.29	Signal Transduction
JUN	v-jun sarcoma virus 17 oncogene homolog (avian)		1.98 ²	Transcription Factor
JUNB	jun B proto-oncogene	2.01	8.34	Transcription Factor
MONDOA	Mlx interactor		2.26	Transcription Factor
SOX4	SOX4 gene for SRY (sex determining region Y)-box 4		1.97	Transcription Factor
BHLHB2	basic helix-loop-helix domain containing, class B, 2	4.26 ²	4.61 ²	Transcription Factor
SNAI2	snail homolog 2 (Drosophila)		2.37	Transcription Factor