

Table S9: Genes differentially expressed in CA $\beta$ 3 cells that are targeted by TGF $\beta$ 2, BMP and/or Wnt signaling.

Genes differentially expressed in CA $\beta$ 3 cells were entered into the EMT-Regulome database (<http://www.medsysbio.org/EMTRegulome>) to identify those that are targeted by signaling involving TGF $\beta$ 2, BMP and/or Wnt pathways (no citations indicated). In those instances where the database did not indicate an association with any pathway(s), supplementary literature searches were performed. The Log<sub>2</sub> FC relative to WT $\beta$ 3 cells is indicated for each gene.

Functional Classification	Gene Name	Protein Name	CA $\beta$ 3-EV Log <sub>2</sub> FC	Role in TGF $\beta$ , BMP or Wnt signaling
<b>Transcription</b>				
	<i>FOSL1</i>	FOS like 1, AP-1 transcription factor subunit	-1.98	Targeted by TGF $\beta$ [118]; Wnt [119]
	<i>ISL1</i>	ISL LIM Homeobox 1	8.81	Targeted by TGF $\beta$ ; BMP [120]; Wnt [121]
	<i>MYOCD</i>	myocardin	2.94	Targeted by TGF $\beta$
	<i>PAX6</i>	paired box 6	2.78	Targeted by TGF $\beta$ [122]; BMP [123]; Wnt [124]
	<i>SOX5</i>	SRY-box 5	3.49	Targeted by TGF $\beta$ ; BMP
	<i>STAT5A</i>	signal transducer and activator of transcription 5A	3.32	Targeted by TGF $\beta$
	<i>ZNF117</i>	zinc finger protein 117	2.34	Targeted by TGF $\beta$
	<i>ZNF347</i>	zinc finger protein 347	1.78	Targeted by TGF $\beta$
	<i>ZNF608</i>	zinc finger protein 608	2.63	Targeted by TGF $\beta$
	<i>ZNF641</i>	zinc finger protein 641	2.17	Targeted by TGF $\beta$ ; BMP
<b>Adhesion</b>				
	<i>BMPER</i>	BMP binding endothelial regulator	-2.07	Targeted by TGF $\beta$
	<i>CDH6</i>	K-cadherin	1.97	Targeted by TGF $\beta$ ; BMP
	<i>CNTN3</i>	contactin 3	-3.17	Targeted by TGF $\beta$
	<i>DCHS1</i>	dachsous cadherin-related 1	3.65	Targeted by TGF $\beta$ ; BMP
	<i>NCAM2</i>	neuronal cell adhesion molecule 2	1.78	Targeted by TGF $\beta$
	<i>NRCAM</i>	neuronal cell adhesion molecule	-2.47	Targeted by TGF $\beta$ ; BMP

	<i>PCDH1</i>	protocadherin 1	2.47	Targeted by TGFβ
	<i>RGMA</i>	repulsive guidance molecule BMP co-receptor a	2.16	Targeted by TGFβ
	<i>SEMA6A</i>	semaphorin 6A	1.55	Targeted by TGFβ; BMP
	<i>SEMA6D</i>	semaphorin 6D	4.35	Targeted by TGFβ; BMP
	<i>VCAM1</i>	vascular cell adhesion molecule 1	-2.07	Targeted by TGFβ; BMP
<b>ECM</b>				
	<i>MMP1</i>	matrix metalloproteinase 1	-6.35	Targeted by TGFβ; BMP [125]; Wnt [126]
	<i>SERPINE1</i>	serpin family E member 1	-1.71	Targeted by TGFβ
	<i>TLL1</i>	tolloid like 1	4.19	Targeted by TGFβ
	<i>TNC</i>	tenascin C	-3.59	Targets TGFβ [115]
<b>Cytokines</b>				
	<i>BMP3</i>	bone morphogenetic protein 3	3.54	Targeted by TGFβ; BMP
	<i>IL11</i>	interleukin 11	-2.05	Targeted by TGFβ
	<i>INHBB</i>	inhibin subunit beta B	-1.65	Targeted by TGFβ; BMP4
	<i>SMAD6</i>	SMAD family member 6	2.19	Targeted by TGFβ
	<i>TGFB2</i>	transforming growth factor beta 2	1.63	Targeted by BMP [73]
	<i>TNFAIP3</i>	TNF alpha induced protein 3	-1.92	Targeted by TGFβ; BMP
	<i>WNT7B</i>	Wnt family member 7B	1.82	Targeted by TGFβ [127]; BMP [128]
	<i>WNT8B</i>	Wnt family member 8B	1.90	Targeted by TGFβ; BMP
<b>Cytoskeleton</b>				
	<i>AGAP2</i>	ArfGAP with GTPase domain, ankyrin repeat and PH domain 2	1.77	Targeted by TGFβ
	<i>ARHGAP22</i>	Rho GTPase activating protein 22	2.24	Targeted by TGFβ
	<i>ARHGAP24</i>	Rho GTPase activating protein 24	2.04	Targeted by BMP
	<i>GAS7</i>	growth arrest specific 7	3.21	Targeted by TGFβ
	<i>INA</i>	internexin neuronal intermediate filament protein alpha	1.93	Targeted by TGFβ
	<i>IQGAP2</i>	IQ motif containing GTPase activating protein 2	2.59	Targeted by TGFβ; Wnt [129]
	<i>MCF2L</i>	MCF.2 cell line derived transforming sequence like	2.44	Targeted by BMP

<i>MYH15</i>	myosin heavy chain 15	-2.10	Targeted by TGFβ [130]
<i>NHS</i>	NHS actin remodeling regulator	-1.02	Targeted by TGFβ; BMP
<i>RAPGEF4</i>	Rap guanine nucleotide exchange factor 4	2.26	Targeted by TGFβ
<i>RUNDC3A</i>	RUN domain containing 3A	1.68	Targeted by TGFβ
<i>SORBS1</i>	sorbin and SH3 domain containing 1	2.15	Targeted by TGFβ; BMP
<i>SRGAP3</i>	SLIT-ROBO Rho GTPase activating protein 3	2.81	Targeted by BMP
<b>Miscellaneous</b>			
<i>TXNIP</i>	thioredoxin interacting protein	3.64	Targeted by TGFβ; BMP
<i>MBP</i>	myelin basic protein	-2.62	Targeted by TGFβ [131]