

Table S1- Characterization of the 93 potential EMT-related genes selected for this study.

Gene Symbol	Location	Related Functions/Process*
<i>AHNAK</i>	11q12.2	Cell differentiation
<i>AKT1</i>	14q32.32	Cell differentiation and cell proliferation
<i>BMP1</i>	8p21.3	Cell differentiation, extracellular matrix organization and TGF β pathway
<i>BMP7</i>	20q13	Cell differentiation, cell proliferation and TGF β pathway
<i>CALD1</i>	7q33	Cell migration
<i>CAMK2N1</i>	1p36.12	Calcium-dependent protein kinase inhibition
<i>CAV2</i>	7q31.1	Cell proliferation and cell migration
<i>CD44</i>	11p13	Cell adhesion and a stem cell marker
<i>CDH1</i>	16q22.1	Cell adhesion
<i>CDH2</i>	18q11.2	Cell adhesion
<i>CDH3</i>	16q22.1	Cell adhesion
<i>CDH11</i>	16q21	Cell adhesion
<i>COL1A2</i>	7q22.1	Extracellular matrix organization
<i>COL3A1</i>	2q31	Extracellular matrix organization and TGF β pathway
<i>COL5A2</i>	2q14-q32	Extracellular matrix organization
<i>CTNNB1</i>	3p21	Cell morphogenesis, cell proliferation, cell adhesion, cell-extracellular matrix adhesion and WNT pathway
<i>DAB2IP</i>	9q33.1-q33.3	Cell proliferation, cell migrations and Wnt pathway
<i>DSC2</i>	18q12.1	Cell adhesion
<i>DSP</i>	6p24	Cell adhesion, cytoskeleton organization
<i>EGFR</i>	7p12	Cell proliferation, cell migration and cell adhesion
<i>ERBB3</i>	12q13	Cell differentiation, cell proliferation and cell adhesion
<i>F11R</i>	1q21.2-q21.3	Cell differentiation, cell adhesion and TGF pathway
<i>FGFBP1</i>	4p15.32	Cell differentiation, cell proliferation and cell migration
<i>FN1</i>	2q34	Cell migration, cell adhesion and cell morphogenesis
<i>FOXC2</i>	16q24.1	Cell differentiation, cell proliferation, cell adhesion and Notch pathway
<i>FZD7</i>	2q33	Cell differentiation, stem cell division, stem cell maintenance and WNT pathway
<i>GNG11</i>	7q21	Modulation/transduction of transmembrane signaling
<i>GSC</i>	14q32.1	Cell differentiation and Wnt pathway
<i>GSK3B</i>	3q13.3	Cell proliferation, cell migration and WNT pathway
<i>IGFBP4</i>	17q12-q21.1	Cell proliferation
<i>IL1RN</i>	2q14.2	Cell proliferation and cell adhesion
<i>ILK</i>	11p15.4	Cell proliferation, cell adhesion, cell-extracellular matrix, cell migration and Wnt pathway
<i>ITGA5</i>	12q11-q13	Cell adhesion
<i>ITGAV</i>	2q31-q32	Cell proliferation, cell adhesion, cell-extracellular matrix adhesion and cell migration
Gene Symbol	Location	Related Functions/Process*

<i>ITGB1</i>	10p11.2	Cell adhesion, cell-extracellular matrix adhesion and cell migration
<i>JAG1</i>	20p12.1-p11.23	Cell differentiation, cell morphogenesis and Notch pathway
<i>KRT7</i>	12q13.13	Cytoskeleton organization
<i>KRT14</i>	17q12-q21	Cell differentiation, cell adhesion and cytoskeleton organization
<i>KRT19</i>	17q21.2	Cell differentiation and cytoskeleton organization
<i>MAP1B</i>	5q13	Microtubule organization
<i>MITF</i>	3p14.2-p14.1	Cell differentiation
<i>MMP2</i>	16q13-q21	Extracellular matrix degradation and organization
<i>MMP3</i>	11q22.3	Extracellular matrix degradation and organization
<i>MMP9</i>	20q11.2-q13.1	Extracellular matrix degradation and organization, cell-extracellular matrix adhesion and cell proliferation
<i>MSN</i>	Xq11.1	Cell migration
<i>MST1R</i>	3p21.3	Cell differentiation, cell proliferation and cell migration
<i>NKX3-1</i>	8p21.2	Cell proliferation
<i>NODAL</i>	10q22.1	Cell differentiation, cell proliferation, cell migration and TGF pathway
<i>NOTCH1</i>	9q34.3	Cell differentiation, cell morphogenesis and Notch pathway
<i>NUDT13</i>	10q22.1	
<i>OCN</i>	5q13.1	Cell proliferation and cell adhesion
<i>PDGFRB</i>	5q33.1	Cell proliferation and cell migration
<i>PLEK2</i>	14q23.3	Cytoskeleton organization
<i>POU5F1</i>	6p21.31	Stem cell maintenance and Wnt pathway
<i>PROM1</i>	4p15.32	Cell differentiation, Stem cell maintenance
<i>PTK2</i>	8q24.3	Cell proliferation, extracellular matrix organization, cell adhesion and cell migration
<i>PTP4A1</i>	6q12	Cell differentiation, cell proliferation and cell migration
<i>RAC1</i>	7p22	Cell morphogenesis, cell adhesion, cell-extracellular matrix adhesion, cytoskeleton organization and Wnt pathway
<i>RARB</i>	3p24.2	Cell differentiation and cell proliferation
<i>RASSF1</i>	3p21.3	Cell proliferation and RAS pathway
<i>RGS2</i>	1q31	Cell differentiation and cell proliferation
<i>SERPINE1</i>	7q21.3-q22	Cell adhesion and cell migration
<i>SFRP1</i>	8p11.21	Wnt pathway
<i>SIP1</i>	14q13	Transcription factor
<i>SMAD2</i>	18q21.1	Cell differentiation, cell proliferation, cell morphogenesis and TGF β pathway
<i>SMAD4</i>	18q21.1	Cell differentiation, cell morphogenesis and TGF β pathway
<i>SNAI1</i>	20q13.2	Cell differentiation, cell morphogenesis, cell migration and Notch pathway
Gene Symbol	Location	Related Functions/Process*
<i>SNAI2</i>	8q11	Cell differentiation, stem cell proliferation, Notch pathway and Wnt pathway
<i>SNAI3</i>	16q24.3	Transcription factor
<i>SOX10</i>	22q13.1	Cell differentiation, cell proliferation, cell morphogenesis and Wnt pathway

<i>SPARC</i>	5q31.3-q32	Cell morphogenesis, Extracellular matrix organization and cell migration
<i>SPP1</i>	4q22.1	Cell adhesion and cell-extracellular matrix adhesion
<i>STAT3</i>	17q21.31	Cell proliferation, cell migration and Notch pathway
<i>STEAP1</i>	7q21	Cell adhesion
<i>TCF3</i>	19p13.3	Cell differentiation, cell proliferation and transcription factor
<i>TCF4</i>	18q21.1	Cell differentiation and transcription factor
<i>TFPI2</i>	7q22	Extracellular matrix component
<i>TGFB1</i>	19q13.1	Cell proliferation, cell migration, cell adhesion and TGF β pathway
<i>TGFB2</i>	1q41	Cell differentiation, cell proliferation, cell morphogenesis, cell migration, cell adhesion and TGF β pathway
<i>TGFB3</i>	14q24	Cell differentiation, cell proliferation, cell adhesion and TGF β pathway
<i>TIMP1</i>	Xp11.3-p11.23	Cell proliferation, cell migration, cell adhesion and TGF β pathway (inhibitor of MMP's)
<i>TMEFF1</i>	9q31	Cell differentiation
<i>TMEM132A</i>	11q12.2	Cell differentiation
<i>TSPAN13</i>	7p21.1	Cell migration
<i>TWIST1</i>	7p21.2	Cell differentiation and transcription factor
<i>VCAN</i>	5q14.3	Cell proliferation, extracellular matrix component, cell adhesion and migration
<i>VIM</i>	10p13	Cell migration and cytoskeleton organization
<i>VPS13A</i>	9q21	Proteins transport
<i>WNT11</i>	11q13.5	Cell differentiation, cell proliferation, cell migration and WNT pathway
<i>WNT5A</i>	3p21-p14	Cell differentiation and WNT pathway
<i>WNT5B</i>	12p13.3	Cell differentiation, cell migration and WNT pathway
<i>ZEB1</i>	10p11.2	Cell differentiation, cell proliferation and transcription factor
<i>ZEB2</i>	2q22.3	Transcription factor

* Based on information available in <http://www.ncbi.nlm.nih.gov/>

