

Table. S1. List of Differentially Expressed Genes IGF signalling pathway related genes by Telomerase Over-expression in hMSC

IGF Signaling			
<i>Accession Number</i>	<i>Gene Symbol</i>	<i>Gene Name</i>	<i>Fold Change</i>
NM_006939.2	SOS2	Son of sevenless homolog 2	4,49
NM_003161.3	RPS6KB1	Ribosomal protein S6, kinase, 70kDa, polypeptide 1	4,22
NM_002645.2	PIK3C2A	Phosphatidylinositol-4-phosphate 3-kinase, catalytic subunit type 2 alpha	4,02
NM_002731.2	PRKACB	Protein kinase, cAMP dependent, catalytic, beta	3,37
NM_002834.3	PTPN11	Protein tyrosine phosphatase, non-receptor type 11	3,34
NM_006154.3	NEDD4	Neural precursor cell expressed, developmentally down regulated 4, E3 ubiquitin protein ligase	3,12
NM_002740.5	PRKCI	Protein kinase C, iota	2,93
NM_005465.4	AKT3	v-akt murine thymoma viral oncogene homolog 3	2,7
NM_181523.2	PIK3R1	Phosphoinositide-3-kinase, regulatory subunit 1	2,6
NM_006218.2	PIK3CA	Phosphatidylinositol-4, 5-bisphosphate 3-kinase, catalytic subunit alpha	2,43
NM_002890.2	RASA1	RAS p21 protein activator (GTPase activating protein) 1	2,21
NM_000596.2	IGFBP1	Insulin-like growth factor binding protein 1	1,79
NM_000597.2	IGFBP2	Insulin like growth factor binding protein 2, 36kDa	-5,79
NM_001901.2	CTGF	Connective tissue growth factor	-3,75
NM_003749.2	IRS2	Insulin receptor substrate 2	-1,9
NM_001552.2	IGFBP4	Insulin like growth factor binding protein 4	-1,81
NM_003405.3	YWHAH	Tyrosin 3-monooxygenase/tryptophan 5-monooxygenase activation protein. eta	-1,65
NM_000599.3	IGFBP5	Insulin like growth factor binding protein 5	-1,65
PI3K/AKT Signaling			
<i>Accession Number</i>	<i>Gene Symbol</i>	<i>Gene Name</i>	<i>Fold Change</i>
NM_006939.2	SOS2	Son of sevenless homolog 2	4,49
NM_003161.3	RPS6KB1	Ribosomal protein S6, kinase, 70kDa, polypeptide 1	4,22
NM_000885.4	ITGA4	Integrin alpha 4 (antigen CD49D)	4,03
NM_005348.3	HSP90AA1	Heat shock protein 90kDa alpha (cytosolic), class A, member 1	3,62
NM_005923.3	MAP3K5	Mitogen activated protein kinase kinase 5	3,29
NM_002718.4	PPP2R3A (includes EG:5523)	Protein phosphatase 2, regulatory subunit B, alpha	3,17
NM_002039.3	GAB1	GAB 2 associated binding protein 1	2,94
NM_001968.3	EIF4E	Eukaryotic translation initiation factor 4E	2,8
NM_005465.4	AKT3	v-akt murine thymoma viral oncogene homolog 3	2,7
NM_181523.2	PIK3R1	Phosphoinositide-3-kinase, regulatory subunit 1	2,6

NM_006218.2	PIK3CA	Phosphatidyl inositol-4, 5-bi-phosphate 3-kinase, catalytic subunit alpha	2,43
NM_002502.5	NFKB2	Nuclear factor of kappa light polypeptide gene enhancer in B cells 2 (p49/p100)	2,25
NM_002203.3	ITGA2	Interin alpha 2 (CD49B, alpha 2 subunit of VLA-2 receptor)	2,2
NM_004987.5	LIMS1	LIM and senescent cell antigen -like domains 1	2,14
NM_004095.3	EIF4EBP1	Eukaryotic translation initiation factor 4E binding protein 1	-2,09
NM_002719.3	PPP2R5C	Protein phosphatase 2, regulatory subunit B, gamma	-2,71

PTEN Signaling

<i>Accession Number</i>	<i>Gene Symbol</i>	<i>Gene Name</i>	<i>Fold Change</i>
NM_006939.2	SOS2	Son of sevenless homolog 2	4,49
NM_003161.3	RPS6KB1	Ribosomal protein S6 kinase, 70kDa, polypeptide 1	4,22
NM_000885.4	ITGA4	Integrin alpha 4 (antigen CD49D)	4,03
NM_005228.3	EGFR	Epidermal growth factor receptor	4,02
NM_017742.4	ZCCHC2	Zinc finger CCHC domain containing 2	2,9
NM_006206.4	PDGFRA	Platelet derived growth factor receptor alpha polypeptide	2,89
NM_005465.4	AKT3	v-akt murine thymoma viral oncogene homolog 3	2,7
NM_181523.2	PIK3R1	Phosphoinositide-3-kinase, regulatory subunit 1	2,6
NM_006218.2	PIK3CA	Phosphatidyl inositol-4, 5-bi-phosphate 3-kinase, catalytic subunit alpha	2,43
NM_002502.5	NFKB2	Nuclear factor of kappa light polypeptide gene enhancer in B cells 2 (p49/p100)	2,25
NM_002203.3	ITGA2	Interin alpha 2 (CD49B, alpha 2 subunit of VLA-2 receptor)	2,2
NM_005249.4	FOXP1	Fork head box G1	1,98
NM_004346.3	CASP3	Caspase 3, apoptosis related cystein peptidase	1,93
NM_001278.3	CHUK	Conserve helix loop helix ubiquitous kinase	1,91
NM_000314.4	PTEN	Phosphatase and tensin homolog	1,74
NM_000163.4	GHR	Growth hormone receptor	-2,88
NM_002609.3	PDGFRB	Platelet derive growth factor receptor, beta polypeptide	-2,14
NM_003405.3	YWHAH	Tyrosin 3-monooxygenase/tryptophan 5-monooxygenase activation protein. eta	-1,65