

# Characterization and comparison of post-natal rat Achilles tendon-derived stem cells at different development stages

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**Supplemental table S1.** Differentially regulated gene numbers between every two TSPCs.

Number of genes	TSPCs-7d vs. 1d	TSPCs-7d vs. 56d	TSPCs-56d vs. 1d
Up regulated	359(63%)	439(58%)	376(46%)
Down regulated	215(37%)	319(42%)	446(54%)
Differentially regulated	574	758	822

**Supplemental table S2.** Genes screened from top seven biological process GO terms and top two pathway GO terms.

<b>ProbeSetID</b>	<b>Gene symbol</b>	<b>Gene name</b>	<b>Fold change TSPCs-7d vs.1d</b>	<b>Fold change TSPCs-7d vs.56d</b>
1368260_at	<i>Aurkb</i>	aurora kinase B	2.69	2.73
1368799_at	<i>Birc5</i>	baculoviralIAP repeat-containing 5	2.12	2.65
1379582_a_at	<i>Ccna2</i>	cyclin A2	2.90	3.52
1370345_at	<i>Ccnb1</i>	cyclin B1	2.64	2.70
1370346_at			3.30	2.78
1389566_at	<i>Ccnb2</i>	cyclin B2	2.79	3.18
1367776_at	<i>Cdc2</i>	cell division cycle 2, G1 to S and G2 to M	2.26	2.38
1370294_a_at	<i>Cdc20</i>	cell division cycle 20 homolog ( <i>S. cerevisiae</i> )	2.61	2.79
1389506_x_at			2.13	2.83
1379234_a_at	<i>Cdc45l</i>	CDC45 cell division cycle 45-like ( <i>S. cerevisiae</i> )	2.72	2.00

1374449_at	<i>Cdca3</i>	cell division cycle associated 3	2.96	2.28
1371928_at	<i>Cdca8</i>	cell division cycle associated 8	2.22	2.58
1389542_at	<i>Cenpe</i>	centromere protein E	2.80	3.18
1373823_at	<i>Cks2</i>	CDC28 protein kinase regulatory subunit 2	2.33	2.36
1397704_at	<i>Esco2</i>	establishment of cohesion 1 homolog 2 ( <i>S. cerevisiae</i> )	3.31	2.64
	<i>LOC685024</i>	similar to N-acetyltransferase ESCO2 (Establishment of cohesion 1 homolog 2) (ECO1 homolog 2)		
	<i>LOC691979</i>	similar to N-acetyltransferase ESCO2 (Establishment of cohesion 1 homolog 2) (ECO1 homolog 2)		
1385733_at	<i>Exo1</i>	exonuclease 1	2.80	2.39
1378240_at	<i>Fancd2</i>	Fanconianemia, complementation group D2	2.83	2.71
1389103_at	<i>Gins4</i>	GINS complex subunit 4 (Sld5 homolog)	2.17	2.08
1390891_at	<i>Kif11</i>	kinesin family member 11	2.81	2.96

1374794_at	<i>Kif15</i>	kinesin family member 15	2.69	3.30
1372903_at	<i>Kif18b</i>	kinesin family member 18B	2.42	2.97
1373722_at	<i>Kif20a</i>	kinesin family member 20A	2.36	2.89
1380775_at	<i>Kif20b</i>	kinesin family member 20B	2.72	3.62
1372516_at	<i>Kif22</i>	kinesin family member 22	2.50	2.36
1391063_at	<i>Kif23</i>	kinesin family member 23	2.47	2.63
1374912_at	<i>Kif2c</i>	kinesin family member 2C	2.75	2.41
1379479_at	<i>Kif4</i>	kinesin family member 4	3.51	2.97
1376185_at	<i>Kifc1</i>	kinesin family member C1	2.88	2.56
1368204_at	<i>Lig1</i>	ligase I, DNA, ATP-dependent	2.44	2.34
1379195_s_at			2.18	2.12
1376346_at	<i>LOC681162</i>	similar to Cyclin-dependent kinases regulatory subunit 1 (CKS-1) (Sid 1334)	0.32	0.34
	<i>RGD1561797</i>	RGD1561797		

1376951_at	<i>Mad211</i>	MAD2 (mitotic arrest deficient, homolog)-like 1 (yeast)	2.79	2.88
1378028_at			2.54	2.56
1398602_at			2.73	2.58
1376055_at	<i>Mcm5</i>	minichromosome maintenance complex component 5	3.02	2.36
1371074_a_at	<i>Mcm6</i>	minichromosome maintenance complex component 6	3.35	2.12
1388744_at	<i>Mcm7</i>	minichromosome maintenance deficient 7 ( <i>S. cerevisiae</i> )	3.07	2.39
1381130_at	<i>Mcm8</i>	minichromosome maintenance complex component 8	2.92	2.60
1377299_at	<i>Nasp</i>	nuclearautoantigenic sperm protein (histone-binding)	2.46	2.66
1378264_at			2.02	2.30
1374799_at	<i>Ncapd2</i>	non-SMC condensin I complex, subunit D2	2.58	3.28
1378296_at	<i>Ncaph</i>	non-SMC condensin I complex, subunit H	3.14	2.89
1383940_at	<i>Nuf2</i>	NUF2, NDC80 kinetochore complex component, homolog ( <i>S. cerevisiae</i> )	2.66	2.79
1385522_at	<i>Orc11</i>	origin recognition complex, subunit 1-like (yeast)	3.25	2.26

1370297_at	<i>Plk1</i>	polo-like kinase 1 (Drosophila)	2.66	2.57
1376611_at	<i>Pola1</i>	polymerase (DNA directed), alpha 1	2.38	2.38
1389421_at	<i>Pole</i>	polymerase (DNA directed), epsilon	2.06	2.66
1383578_at	<i>Rad51</i>	RAD51 homolog (RecA homolog, E. coli) (S. cerevisiae)	3.39	2.64
1389326_at	<i>Rfc3</i>	replication factor C (activator 1) 3	2.09	2.17
1388458_at	<i>Rfc4</i>	replication factor C (activator 1) 4	2.12	2.44
1395944_at	<i>RGD1310778</i>	similar to Putative protein C21orf45	2.50	2.60
1368144_at	<i>Rgs2</i>	regulator of G-protein signaling 2	0.40	2.15
1393848_at	<i>Rrm2</i>	ribonucleotidereductase M2	3.03	2.47
1389668_at	<i>Spc25</i>	SPC25, NDC80 kinetochore complex component, homolog (S. cerevisiae)	3.05	2.70
1368522_at	<i>Timeless</i>	timeless homolog (Drosophila)	2.41	2.33
1372631_at	<i>Tk1</i>	thymidine kinase 1, soluble	2.93	2.30
1378640_at	<i>Uhrf1</i>	ubiquitin-like with PHD and ring finger domains 1	3.49	2.78

1373538_at	<i>Usp1</i>	ubiquitin specific peptidase 1	2.86	2.81
1376687_at			2.93	2.39