

Ensembl ID	Gene Symbol	Gene-level correlation (r)
ENSG00000165194	<i>PCDH19</i>	0.98997
ENSG00000125378	<i>BMP4</i>	0.98989
ENSG00000133083	<i>DCLK1</i>	0.98956
ENSG00000198794	<i>SCAMP5</i>	0.98928
ENSG00000171766	<i>GATM</i>	0.98911
ENSG00000184588	<i>PDE4B</i>	0.98907
ENSG00000179148	<i>ALOXE3</i>	0.98882
ENSG00000104177	<i>MYEF2</i>	0.98876
ENSG00000182568	<i>SATB1</i>	0.98855
ENSG00000172020	<i>GAP43</i>	0.98839
ENSG00000162878	<i>PKDCC</i>	0.98837
ENSG00000066382	<i>MPPED2</i>	0.988
ENSG00000260027	<i>HOXB7</i>	0.98768
ENSG00000169122	<i>FAM110B</i>	0.98767
ENSG00000175567	<i>UCP2</i>	0.98764
ENSG00000104723	<i>TUSC3</i>	0.98743
ENSG00000206538	<i>VGLL3</i>	0.98738
ENSG00000101333	<i>PLCB4</i>	0.98713
ENSG00000198542	<i>ITGBL1</i>	0.9868
ENSG00000122592	<i>HOXA7</i>	0.98659
ENSG00000168916	<i>ZNF608</i>	0.98658
ENSG00000135097	<i>MSI1</i>	0.98637
ENSG00000154822	<i>PLCL2</i>	0.98634
ENSG00000156298	<i>TSPAN7</i>	0.98562
ENSG00000172915	<i>NBEA</i>	0.98551
ENSG00000187627	<i>RGPD1</i>	0.98536
ENSG00000132170	<i>PPARG</i>	0.98471
ENSG00000168542	<i>COL3A1</i>	0.98454
ENSG00000170837	<i>GPR27</i>	0.98438
ENSG00000259952	-	0.98431
ENSG00000197106	<i>SLC6A17</i>	0.984
ENSG00000155849	<i>ELMO1</i>	0.98361
ENSG00000170153	<i>RNF150</i>	0.9836
ENSG00000077063	<i>CTTNBP2</i>	0.98308
ENSG00000170689	<i>HOXB9</i>	0.98205
ENSG00000077782	<i>FGFR1</i>	0.9805
ENSG00000122756	<i>CNTFR</i>	0.97959
ENSG00000164692	<i>COL1A2</i>	0.97893
ENSG00000133134	<i>BEX2</i>	0.97841
ENSG00000135363	<i>LMO2</i>	0.97741
ENSG00000129682	<i>FGF13</i>	0.97732
ENSG00000183091	<i>NEB</i>	0.97718
ENSG00000085276	<i>MECOM</i>	0.97691
ENSG00000171004	<i>HS6ST2</i>	0.97645
ENSG00000198947	<i>DMD</i>	0.97614
ENSG00000182985	<i>CADM1</i>	0.97419
ENSG00000140092	<i>FBLN5</i>	0.97088
ENSG00000184304	<i>PRKD1</i>	0.97023
ENSG00000049192	<i>ADAMTS6</i>	0.97014
ENSG00000168386	<i>FILIP1L</i>	0.96919
ENSG00000124785	<i>NRN1</i>	0.96884
ENSG00000185811	<i>IKZF1</i>	0.96478
ENSG00000180818	<i>HOXC10</i>	0.96396
ENSG00000114405	<i>C3orf14</i>	0.96256
ENSG00000091656	<i>ZFHX4</i>	0.96242
ENSG00000147257	<i>GPC3</i>	0.9624
ENSG00000022267	<i>FHL1</i>	0.96237
ENSG00000104332	<i>SFRP1</i>	0.96037
ENSG00000124208	<i>TMEM189-UBE2V1</i>	0.95993
ENSG00000117707	<i>PROX1</i>	0.95817
ENSG00000006468	<i>ETV1</i>	0.95196
ENSG00000154864	<i>PIEZO2</i>	0.95164
ENSG00000108001	<i>EBF3</i>	0.95029
ENSG00000123338	<i>NCKAP1L</i>	0.94684
ENSG00000113140	<i>SPARC</i>	0.94271
ENSG00000151702	<i>FLI1</i>	0.94066
ENSG00000214575	<i>CPEB1</i>	0.93847
ENSG00000163017	<i>ACTG2</i>	0.93732
ENSG00000140937	<i>CDH11</i>	0.93177
ENSG00000196604	<i>POTEF</i>	0.90389
ENSG00000048740	<i>CELF2</i>	0.89724
ENSG00000233608	<i>TWIST2</i>	0.871
ENSG00000116132	<i>PRRX1</i>	0.82153
ENSG00000269955	<i>C7orf55-LUC7L2</i>	0.81838
ENSG00000254870	<i>ATP6V1G2-DDX39B</i>	0.80955
ENSG00000258017	-	0.47602

**Supplemental Table 2. Gene-level correlation between unfiltered and filtered RNA-Seq datasets.**

List of r values for the 3.8% of transcripts (76/2000) with  $r < 0.99$  at the gene-level. Correlations are comparing expression level of each of the top 2,000 most variable genes across the PDXs before and after filtering for mouse reads.