

Appendix 3 ARPE-19 T-test Results

Appendix 3. T-test results from the serum starvation time series of ARPE-19 cells filtered for P-values less than 0.05 and fold-change values greater than +/- 1.2.

Symbol	GeneID	Fold Change	P-value
Day1			
HSPA8	3312	1.96755	0.043981
HSPA7	3311	1.67266	0.018442
SPNS2	124976	1.50737	0.033796
RPL23	9349	1.49111	0.045029
RAN	5901	1.49033	0.015243
CCT5	22948	1.47416	0.005277
GOLGA6L5	374650	1.46164	0.03124
CTNNA2	1496	1.45102	0.006073
STIP1	10963	1.44656	0.014764
FDPS	2224	1.44361	0.027783
CIZ1	25792	1.42263	0.011523
RNF5P1	286140	1.41122	0.038469
PNPLA2	57104	1.40514	0.012657
KANK2	25959	1.39822	0.00663
NFATC2IP	84901	1.36661	0.015228
H2AFZ	3015	1.36175	0.002898
IRAK1	3654	1.35362	0.020889
EIF3B	8662	1.34297	0.002397
KPNB1	3837	1.3374	0.038885
MAF1	84232	1.31711	0.00695
FAM96B	51647	1.30799	0.000139
JTB	10899	1.2924	0.039116
INSR	3643	1.29151	0.028438
PIGM	93183	1.2853	0.003052
RAB8A	4218	1.27859	0.021241
C20orf117	140710	1.26256	0.046766
VPS11	55823	1.26011	0.003495
G6PD	2539	1.25485	0.0247
C1orf128	57095	1.24776	0.021375
MAP7D1	55700	1.24408	0.044255
CCND1	595	1.24002	0.039621
THOC2	57187	1.23592	0.011206
PNKD	25953	1.23384	0.023536
H3F3B	3021	1.23005	0.035249
NUP62	23636	1.22998	0.032575
POP7	10248	1.22882	0.025475
VOPP1	81552	1.22869	0.0317
NDUFS3	4722	1.22858	0.04728
HNRNPU	3192	1.22362	0.023758
MRS2	57380	1.2151	0.047776
DCAF8	50717	1.2129	0.025771
FICD	11153	1.20516	0.006947
UCP2	7351	-1.4192	0.00079216
GPBP1L1	60313	-1.66203	0.00109356
HTRA1	5654	-1.2746	0.00116751
CORO1C	23603	-1.42573	0.00187552
GBE1	2632	-1.53411	0.00247005
MMP2	4313	-1.57109	0.00392611

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COPG	22820	-1.31366	0.00660851
SLC3A2	6520	-1.98871	0.00661874
CCNK	8812	-1.68575	0.00699552
THBS1	7057	-2.1904	0.00708774
YWHAE	7531	-1.40214	0.0073063
KCNAB2	8514	-1.23214	0.00827974
S1PR1	1901	-1.24243	0.00946734
PPAPDC1B	84513	-1.32356	0.0101294
ERI3	79033	-2.4127	0.0126495
TAX1BP3	30851	-1.35322	0.0127293
STC2	8614	-1.33611	0.0148447
SERPINE1	5054	-2.99897	0.0152783
NBEAL2	23218	-1.33322	0.0184428
RHOA	387	-1.3914	0.0187102
CDH2	1000	-1.28402	0.0200004
ACADVL	37	-1.6452	0.0200045
VIPAR	63894	-1.52447	0.0203201
GPX3	2878	-1.39017	0.0230975
WDR43	23160	-1.48841	0.0239106
C5orf13	9315	-1.2057	0.0246455
SLC15A4	121260	-1.21993	0.0248289
TM9SF4	9777	-1.95916	0.0249578
ZNF503	84858	-1.21226	0.0253524
DPAGT1	1798	-1.22391	0.0253939
PTRF	284119	-1.38567	0.0255538
PLVAP	83483	-1.56432	0.0261875
OSTC	58505	-1.40613	0.0263008
SEMA3C	10512	-1.7358	0.0279147
CALR	811	-1.76345	0.0291441
TSTA3	7264	-2.36324	0.0297391
MLEC	9761	-1.31951	0.0299799
PPFIA2	8499	-1.29876	0.0305073
PPFIA2	8499	-1.29876	0.0305073
TGFBI	7045	-1.93675	0.0308329
GAL3ST3	89792	-1.20286	0.0309117
C2orf28	51374	-1.27863	0.0312933
FBXO22	26263	-1.28681	0.0316113
SLIT3	6586	-1.25323	0.0333282
AIPL1	23746	-1.21271	0.0339319
FXR1	8087	-1.4148	0.0354543
MAGED2	10916	-1.62367	0.035529
DLGAP4	22839	-1.40676	0.0363626
BCAP31	10134	-1.42618	0.0365543
RBM22	55696	-1.94596	0.0370867
RBM22	55696	-1.94596	0.0370867
FAM84A	151354	-2.16075	0.0372378
PPP1R13L	10848	-1.54864	0.0374467
KDM5B	10765	-1.28743	0.0407575
CERCAM	51148	-1.30141	0.0408916
PXN	5829	-1.32619	0.0409162
CNOT6	57472	-1.4989	0.0416284
AK3	50808	-1.21582	0.0421434

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Symbol	GeneID	Fold Change	P-value
PVR	5817	-1.34565	0.0427448
TNRC6A	27327	-1.28803	0.0436729
HEATR5B	54497	-1.22055	0.0444021
IGFBP3	3486	-3.57217	0.0446483
FLNB	2317	-1.25317	0.044657
SKP1	6500	-1.20782	0.045203
CEP57	9702	-1.24232	0.0469143
ARPC3	10094	-1.33369	0.04735
Day3			
FDFT1	2222	2.64046	0.041409
SQLE	6713	2.14295	0.032924
AKR1B1	231	2.05218	0.018246
LBH	81606	1.92643	0.002604
GRAMD1B	57476	1.67364	0.044093
TMEM98	26022	1.66564	0.020809
TPD52L1	7164	1.6265	0.028174
SLC25A1	6576	1.55915	0.000111
TMSB4X	7114	1.53627	0.034541
TMEM168	64418	1.51985	0.047941
PYGB	5834	1.50555	0.014656
CCL2	6347	1.50466	0.017642
BMS1P5	399761	1.48658	0.049242
IFITM2	10581	1.48158	0.036643
ATG9A	79065	1.46128	0.032598
CSTF3	1479	1.43767	0.016137
PLP1	5354	1.41801	0.045015
HNRNPK	3190	1.41649	0.043484
SCP2	6342	1.41331	0.014257
CNN3	1266	1.40158	0.013316
PPP3CA	5530	1.38421	0.009173
RDBP	7936	1.38401	0.037497
LYZ	4069	1.37811	0.012925
LDLR	3949	1.36459	0.044199
RPS27L	51065	1.35571	0.038563
TXLNA	200081	1.34995	0.009859
PITPNA	5306	1.3478	0.047505
RBPJ	3516	1.33494	0.040635
ACTR10	55860	1.32963	0.018209
COL27A1	85301	1.32229	0.042539
EPAS1	2034	1.31531	0.013477
PIP4K2B	8396	1.30114	0.015948
NRBP1	29959	1.29713	0.027727
OTUB1	55611	1.29706	0.04805
NDUFA13	51079	1.29312	0.044101
ATP5G2	517	1.28898	0.035783
ATP6V0A4	50617	1.27562	0.00488
ALKBH3	221120	1.27389	0.034434
OPTC	26254	1.27281	0.037892
SOD2	6648	1.26959	0.03338
TSPAN10	83882	1.26752	0.01021
DBNDD2	55861	1.26512	0.033845

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RAD21	5885	1.26509	0.012845
OXA1L	5018	1.26305	0.009756
GGA3	23163	1.26254	0.024527
PGPEP1	54858	1.25932	0.002119
FBXO7	25793	1.25845	0.01276
PSME1	5720	1.25245	0.021987
APLP2	334	1.24148	0.003262
PSMD4	5710	1.22629	0.032798
NME7	29922	1.22434	0.030735
FUBP1	8880	1.22177	0.044635
HOOK1	51361	1.21278	0.035193
NDUFA5	4698	1.2052	0.01047
SSBP1	6742	-1.20634	0.000637333
EGR3	1960	-1.36916	0.00414316
TGFBI	7045	-4.39603	0.0044213
SPRYD3	84926	-1.28238	0.00498741
GLTP	51228	-1.36231	0.00628305
PSMD7	5713	-1.27313	0.00872076
C13orf1	57213	-1.22202	0.0111372
ACADVL	37	-1.2652	0.0132419
NEAT1	283131	-1.26333	0.0137198
RAD1	5810	-1.29227	0.0168635
MT2A	4502	-1.88039	0.0196312
NEO1	4756	-1.22742	0.0197258
ARSK	153642	-1.25327	0.0232217
AHCY	191	-1.23128	0.024377
SERPINE1	5054	-2.12054	0.0251687
TGFBI	7045	-3.62425	0.0272778
RARB	5915	-1.32954	0.0276295
FIP1L1	81608	-1.3208	0.02828
FN1	2335	-1.73139	0.0326568
GALM	130589	-1.22726	0.0339295
RBM22	55696	-1.84698	0.0341047
RBM22	55696	-1.84698	0.0341047
MT1F	4494	-2.06876	0.0355614
KIAA0141	9812	-1.69904	0.0357958
KIAA1109	84162	-1.20709	0.0374889
TRPM1	4308	-1.97822	0.0394759
PC	5091	-1.23164	0.042664
ST5	6764	-1.21976	0.0430972
RPS8	6202	-1.22227	0.0438793
PLCD3	113026	-1.25341	0.0439956
TMEM132C	92293	-1.2927	0.0454397
COL5A2	1290	-1.30261	0.0459103
EFHD2	79180	-1.4674	0.045966
LMAN1	3998	-1.75646	0.0472233
PECAM1	5175	-1.36672	0.0488138
CHM	1121	-1.22675	0.0495972
PHF17	79960	-1.79561	0.0496951
NEAT1	283131	-2.93428	0.0497465
Symbol	GeneID	Fold Change	P-value
Day5			

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SCD	6319	7.0422	0.026208
SPNS2	124976	5.26174	0.04466
FDPS	2224	3.8197	0.001077
SC4MOL	6307	3.58832	0.005677
FDFT1	2222	3.58791	0.019657
COL12A1	1303	2.61301	0.048797
AKR1B1	231	2.34491	0.018698
MDH1	4190	2.26315	0.018406
PNPLA3	80339	2.24318	0.015552
CCL2	6347	2.17285	0.022771
ATP6V1E1	529	2.14335	0.03631
CXADR	1525	2.14073	0.012666
IRF2BP2	359948	2.09356	0.000234
CLU	1191	2.09116	0.005657
EBP	10682	2.07326	0.025382
SLC9A3R1	9368	2.0626	0.025943
SLC12A9	56996	2.05309	0.010065
FAM129B	64855	1.99414	0.035161
DBI	1622	1.99248	0.02576
FAM127A	8933	1.97887	0.003137
GALNT2	2590	1.97852	0.031169
SEMA4B	10509	1.95877	0.004385
DYNC1H1	1778	1.91959	0.039679
CDK6	1021	1.91719	0.006391
ILK	3611	1.91176	0.021968
ZNF649	65251	1.84335	0.002413
BCL2L2	599	1.80721	0.011971
HPS1	3257	1.80703	0.024906
COL8A1	1295	1.77228	0.027727
VEZF1	7716	1.75222	0.048248
NPC2	10577	1.74348	0.021431
DAP	1611	1.71004	0.006189
PHF1	5252	1.70602	0.031297
KANK2	25959	1.70318	0.003164
OCIAD1	54940	1.69907	0.027731
MACF1	23499	1.68878	0.0168
YIPF3	25844	1.68666	0.016416
SLC35A4	113829	1.68274	0.007994
EMP3	2014	1.67853	0.011512
PAX5	5079	1.65623	0.047702
FADS2	9415	1.64682	0.014975
NPAS3	64067	1.64522	0.034522
SH3GLB2	56904	1.6274	0.030613
CD44	960	1.62651	0.039821
C9orf6	54942	1.62619	0.023252
ATP1B3	483	1.62362	0.008322
VCL	7414	1.6221	0.010139
FAM20A	54757	1.62158	0.047935
ANTXR2	118429	1.60877	0.041346
DCAF6	55827	1.59567	0.004659
HEG1	57493	1.57939	0.014485
CTSD	1509	1.57498	0.044292

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LRRC23	10233	1.5714	0.040839
PSMB7	5695	1.56964	0.033864
TPP1	1200	1.55675	0.021521
RPL23	9349	1.54347	0.009279
BAZ2A	11176	1.54225	0.014769
FAM198B	51313	1.52612	0.022968
SEMA6D	80031	1.52601	0.018922
ALAD	210	1.5229	0.009604
REXO2	25996	1.51841	0.036717
SLC50A1	55974	1.51572	0.048844
KIAA0528	9847	1.51302	0.011891
HDAC2	3066	1.51128	0.001192
SLC39A1	27173	1.49715	0.024157
IARS	3376	1.48902	0.049
KRT3	3850	1.48819	0.030334
ZNF207	7756	1.48665	0.000392
PPT1	5538	1.48052	0.035324
NFKBIL1	4795	1.47761	0.002945
PRKAR1A	5573	1.47264	0.020069
ROBO4	54538	1.46278	0.035155
RPS6KA5	9252	1.46233	0.030676
SRPK2	6733	1.46152	0.018695
ZFAND3	60685	1.46051	0.033718
CENPB	1059	1.45866	0.025495
TMEM59	9528	1.45441	0.034794
DKK3	27122	1.4535	0.000715
LSS	4047	1.45199	0.047682
TBC1D28	254272	1.4477	0.018257
PCDHGC3	5098	1.44193	0.034675
ZNF71	58491	1.43797	0.01
GPX4	2879	1.43644	0.008663
RGMB	285704	1.43044	0.010222
CMIP	80790	1.42913	0.020591
ORAI2	80228	1.428	0.023682
FAM36A	116228	1.42399	0.014178
PROM1	8842	1.42336	0.024257
ARPC4	10093	1.4179	0.0294
TUG1	55000	1.4145	0.012371
MAP2K7	5609	1.41248	0.036996
HNRNPUL1	11100	1.40929	0.044975
NGFRAP1	27018	1.40704	0.027339
IGBP1	3476	1.4037	0.002155
ATP2B4	493	1.40215	0.030215
HPS5	11234	1.4021	0.012962
CTSB	1508	1.40172	0.048574
RTN3	10313	1.39875	0.014113
CD82	3732	1.39443	0.031178
GGA3	23163	1.38973	0.019521
RFWD2	64326	1.38953	0.014296
PPP2R4	5524	1.38142	0.028697
PPP6C	5537	1.38037	0.024688
SLBP	7884	1.3793	0.040511

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VTI1B	10490	1.37721	0.000467
FBLN1	2192	1.37698	0.047503
ANXA5	308	1.37543	0.03665
KIAA1671	85379	1.37444	0.032881
NUMA1	4926	1.37139	0.030713
SUPT4H1	6827	1.36964	0.043937
ABHD2	11057	1.36931	0.047672
RNH1	6050	1.36566	0.01711
PHACTR2	9749	1.36427	0.033127
DCAF8	50717	1.36364	0.010407
KIF1C	10749	1.36261	0.019411
SERINC3	10955	1.36238	0.006739
TMEM98	26022	1.36211	0.001703
YTHDC1	91746	1.3561	0.039903
IK	3550	1.35345	0.024814
MYL12B	103910	1.35214	0.025203
FAM127B	26071	1.35019	0.038988
RBM3	5935	1.34908	0.010814
CD93	22918	1.34664	0.044669
FAM134A	79137	1.34468	0.006025
NUPL1	9818	1.34421	0.018127
UACA	55075	1.34421	0.012621
CLTC	1213	1.34265	0.022213
MLF2	8079	1.33938	0.035618
STIP1	10963	1.33789	0.027808
PSMB4	5692	1.33644	0.016396
DPY19L4	286148	1.33364	0.023959
MARK3	4140	1.33001	0.001225
DSCR3	10311	1.32828	0.020917
ATP6V1F	9296	1.32679	0.025158
ZNF865	1E+08	1.3251	0.048463
COPS4	51138	1.32433	0.01162
DDX18	8886	1.31939	0.03673
ESYT2	57488	1.31767	0.000297
ZNF638	27332	1.3168	0.001187
RAB31	11031	1.31634	0.01863
NADSYN1	55191	1.31528	0.01962
IFT52	51098	1.31236	0.001172
NFASC	23114	1.31191	0.009537
CCAR1	55749	1.31168	0.04734
LSS	4047	1.31022	0.045118
PALLD	23022	1.31014	0.002746
C6orf89	221477	1.31013	0.01524
ZFHX4	79776	1.30942	0.015983
TUBG2	27175	1.30891	0.004214
RNF130	55819	1.30628	0.01517
SH3KBP1	30011	1.30379	0.041772
NECAP2	55707	1.30184	0.004788
CACNA2D2	9254	1.30142	0.036395
ACO1	48	1.29951	0.049969
USP8	9101	1.29522	0.020208
ATP5L	10632	1.29394	0.034244

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TPT1	7178	1.29193	0.026423
DBNDD2	55861	1.28749	0.047049
PLK1	5347	1.28749	0.016998
RHOQ	23433	1.2869	0.037232
PTK2	5747	1.28689	0.010537
C10orf54	64115	1.28577	0.022557
PTPLAD1	51495	1.2826	0.026015
ZNF642	339559	1.28239	0.000862
TPRN	286262	1.27845	0.003742
RNF213	57674	1.27684	0.026881
TACC1	6867	1.27624	0.033438
HAUS3	79441	1.27347	0.02311
ASPH	444	1.2715	0.041392
METTL9	51108	1.2699	0.025996
ERGIC1	57222	1.26748	0.000773
TPT1	7178	1.26742	0.036754
E2F4	1874	1.26196	0.015647
FASN	2194	1.26071	0.002271
DIP2B	57609	1.25777	0.001703
MLEC	9761	1.25762	0.024749
GK	2710	1.25726	0.043651
TOMM6	1E+08	1.25608	0.010972
GPNUMB	10457	1.25599	0.043563
MLF2	8079	1.25574	0.004722
PPRC1	23082	1.25553	0.008048
RBM7	10179	1.25447	0.045199
ORMDL2	29095	1.25344	0.003065
PDCD6IP	10015	1.25043	0.02229
LYPLA2	11313	1.2494	0.005902
NAA40	79829	1.24899	0.008347
BTD	686	1.24845	0.04617
TRAM1	23471	1.24816	0.020326
RBBP4	5928	1.24713	0.039555
CLN3	1201	1.24636	0.022299
HDLBP	3069	1.24367	0.043828
SAMSN1	64092	1.24349	0.003925
LEO1	123169	1.23294	0.008888
TMEM43	79188	1.23254	0.026832
EIF2C1	26523	1.23193	0.017966
ZBTB38	253461	1.23091	0.038434
RSPO1	284654	1.23023	0.012102
OPTN	10133	1.22998	0.008495
PLEKHB1	58473	1.22677	0.003354
ZNF148	7707	1.22561	0.02842
SAMD8	142891	1.22525	0.035278
ZFP36L1	677	1.219	0.026969
ZCCHC7	84186	1.21892	0.010893
SELT	51714	1.2181	0.049014
DDR1	780	1.21776	0.027994
SLC25A4	291	1.21665	0.004641
TXNRD2	10587	1.21383	0.006827
NME7	29922	1.21285	0.02757

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CDV3	55573	1.21269	0.040039
H3F3A	3020	1.20866	0.042416
PDXK	8566	1.20802	0.008117
SUPV3L1	6832	1.20623	0.033993
PLEKHB2	55041	1.20572	0.039116
SSU72	29101	1.20392	0.015132
ATP5G3	518	1.20005	0.016166
AFF4	27125	-4.71228	0.0159579
TGFBI	7045	-4.50017	0.0265362
TGFBI	7045	-3.94849	0.00562595
MT1G	4495	-2.41357	0.0186731
MT1E	4493	-2.18011	0.022612
PLIN2	123	-2.14359	0.0115861
MT1F	4494	-1.9669	0.0318939
GCOM1	145781	-1.84421	0.0420688
MT1H	4496	-1.75516	0.00729455
NCEH1	57552	-1.59622	0.0343314
TNS1	7145	-1.51608	0.0438086
ABCA4	24	-1.50529	0.0115131
FDXR	2232	-1.44496	0.0478398
LARP1B	55132	-1.37795	0.00554749
ACAD9	28976	-1.37791	0.0174785
WDR20	91833	-1.33173	0.021581
DCTPP1	79077	-1.32951	0.021018
RYR2	6262	-1.30426	0.0119099
TBC1D5	9779	-1.3034	0.0228341
RHOBTB3	22836	-1.30017	0.0487872
GLIS2	84662	-1.29801	0.0438685
JUNB	3726	-1.27224	0.0184402
ME2	4200	-1.26786	0.030954
PAPPA	5069	-1.26481	0.0441651
ZNF862	643641	-1.25296	0.018563
DAGLB	221955	-1.24003	0.0069412
MEIS1	4211	-1.23926	0.0104909
FAM102A	399665	-1.23905	0.0173921
UQCRH	7388	-1.23044	0.0312282
PPAP2B	8613	-1.22455	0.0298443
IL34	146433	-1.22006	0.0156064
PSCA	8000	-1.2192	0.0125479
TRAPPC2P1	10597	-1.21689	0.0279963
EML4	27436	-1.21521	0.00230761
TGOLN2	10618	-1.2136	0.0019803
SRPK1	6732	-1.21046	0.0309911
RPS4Y1	6192	-1.20985	0.0277926
KCNAB2	8514	-1.20935	0.0493727
COLEC12	81035	-1.20907	0.0097462
PGCP	10404	-1.20209	0.0472911
Symbol	GeneID	Fold Change	P-value
Day7			
SCD	6319	4.51087	0.002163
FDPS	2224	3.12338	0.000835
SPNS2	124976	3.12167	0.0199

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FDFT1	2222	2.895	0.018457
DHCR24	1718	2.56399	0.004934
CLU	1191	2.43406	0.003715
PNPLA2	57104	2.09045	0.041754
TMEM111	55831	2.03692	0.017152
PELI1	57162	1.99649	0.026298
MDH1	4190	1.97016	0.031011
MYL9	10398	1.91238	0.042018
LBH	81606	1.89293	0.049648
FADS2	9415	1.85476	0.038112
SMARCD1	6602	1.83893	0.008293
KANK2	25959	1.76088	0.014227
EBP	10682	1.71489	0.016129
ABCA4	24	1.71471	0.031047
FAM86B1	85002	1.7011	0.014281
RAB2A	5862	1.68378	0.024744
SLC50A1	55974	1.67884	0.009413
SLC9A3R1	9368	1.67756	0.028318
ERCC6	2074	1.67632	0.003316
BTG1	694	1.66455	0.005451
DBI	1622	1.64239	0.035955
HPS1	3257	1.64125	0.011041
NFASC	23114	1.64038	0.007981
ERBB3	2065	1.63377	0.008975
UBE2Q1	55585	1.62237	0.041502
CD93	22918	1.61672	0.01889
RGS3	5998	1.60714	0.03044
KIAA0528	9847	1.59413	0.008469
CDK2AP1	8099	1.59402	0.001561
ABHD2	11057	1.5487	0.020894
FAM69B	138311	1.54836	0.029962
SLC12A9	56996	1.54746	0.000397
IRF2BP2	359948	1.54736	0.030789
SLC1A2	6506	1.54556	0.029084
RHOBTB2	23221	1.53429	0.036046
TAC1	6863	1.52739	0.041836
CHST15	51363	1.51813	0.001553
RPS6KA5	9252	1.51435	0.011173
IARS	3376	1.51344	0.010725
DMAP1	55929	1.51136	0.010446
M6PR	4074	1.50591	0.007255
PAX5	5079	1.50528	0.007077
C5orf32	84418	1.50371	0.048074
NOS1AP	9722	1.50261	0.031773
PPFIA2	8499	1.49199	0.029142
MACROD2	140733	1.4884	0.001339
AHNAK2	113146	1.48818	0.037739
WARS	7453	1.4848	0.043048
MAP2K7	5609	1.47434	0.006527
CARD8	22900	1.46724	0.021315
DIP2C	22982	1.46618	0.033214
SPATA13	221178	1.45993	0.019741

Appendix 3 ARPE-19 T-test Results

KIF1C	10749	1.45454	0.047046
TAGLN	6876	1.45181	0.001981
RHOQ	23433	1.44981	0.008816
PRKCA	5578	1.4395	0.011038
C9orf6	54942	1.43346	0.034869
GOT2	2806	1.43027	0.034939
POLK	51426	1.42359	0.028446
LDLR	3949	1.42303	0.04579
ADAM9	8754	1.42185	0.012154
EPB41L1	2036	1.41732	0.018511
C6orf47	57827	1.41186	0.014873
ZNF71	58491	1.40847	0.001278
ZNF638	27332	1.39736	0.000575
TLL7	79739	1.39678	0.027319
KBTBD10	10324	1.39487	0.044368
SSNA1	8636	1.38499	0.019762
ZNF418	147686	1.3839	0.044378
TRIOBP	11078	1.38268	0.027179
C12orf29	91298	1.38121	0.040148
RNMT	8731	1.37379	0.02373
ZFHX4	79776	1.37123	0.026837
KBTBD2	25948	1.371	0.01867
IFITM1	8519	1.3709	0.015885
CREBBP	1387	1.36967	0.010827
NR2C2	7182	1.36831	0.010593
LDB1	8861	1.36424	0.045584
TIMP2	7077	1.36201	0.040781
FAM171A1	221061	1.36175	0.048681
GPX4	2879	1.35899	0.009113
IFITM2	10581	1.35889	0.036785
NELL2	4753	1.35551	0.025349
SLC25A44	9673	1.34498	0.012751
EGLN2	112398	1.34388	0.047991
HMGXB3	22993	1.34099	0.013221
MORF4L2	9643	1.3409	0.026403
CLUL1	27098	1.33154	0.037727
IDH1	3417	1.3303	0.016094
PERP	64065	1.32479	0.011028
PCDHGC3	5098	1.31838	0.03966
PLEKHB1	58473	1.31364	0.013273
PLEKHB1	58473	1.3113	0.03533
SNX4	8723	1.31121	0.027757
C10orf54	64115	1.30417	0.000707
SLC39A1	27173	1.30309	0.024016
PTAFR	5724	1.30191	0.01485
MFN1	55669	1.2993	0.032179
PPP3CB	5532	1.29828	0.027494
PPP1R12B	4660	1.29806	0.020407
SETD5	55209	1.2966	0.012106
ABCB10	23456	1.29501	0.045753
HAUS3	79441	1.2928	0.00247
MYO1B	4430	1.28827	0.040095

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RBM17	84991	1.2871	0.000457
VPS24	51652	1.2849	0.017243
BCL2L1	598	1.27951	0.026208
INTS10	55174	1.27884	0.017914
PROM1	8842	1.27848	0.028008
CYFIP2	26999	1.27841	0.012563
PPME1	51400	1.27692	0.007852
MYO1B	4430	1.26792	0.00717
IGBP1	3476	1.26731	0.01753
SRBD1	55133	1.26508	0.015007
ITGBL1	9358	1.25358	0.021019
PSD3	23362	1.25073	0.013304
RAB31	11031	1.25052	0.013411
NPC1	4864	1.24669	0.018503
POLD4	57804	1.24241	0.013987
KARS	3735	1.23916	0.017786
FGFR1OP2	26127	1.23868	0.006286
MTSS1L	92154	1.23311	0.014996
YIPF3	25844	1.232	0.042337
WASH3P	374666	1.22935	0.01111
ITM2B	9445	1.22906	0.034337
LRP1	4035	1.22708	0.023222
UBE4B	10277	1.22535	0.025645
LSS	4047	1.22207	0.027888
GPC5	2262	1.22202	0.046483
PDE6A	5145	1.22131	0.026806
FASN	2194	1.22092	0.007216
CDK2AP2	10263	1.21955	0.048394
PKP4	8502	1.21868	0.007705
LMO7	4008	1.21833	0.004191
TNRC18	84629	1.21342	0.041029
GPHN	10243	1.21321	0.010772
ITGA3	3675	1.21156	0.022587
IGFBP3	3486	1.20754	0.033198
ADPGK	83440	1.20684	0.033612
LEO1	123169	1.20639	0.046244
NUDT4	11163	1.20536	0.006001
CBR1	873	1.20456	0.033092
FUBP1	8880	1.20433	0.003292
C20orf194	25943	1.20405	0.000219
RNF123	63891	1.20344	0.047273
FBLIM1	54751	1.20326	0.002299
TPRN	286262	1.20233	0.017412
TUBB	203068	-1.79262	0.000688905
UQCRB	7381	-1.25159	0.00162533
TSPO	706	-1.3319	0.00174226
CENPJ	55835	-1.2713	0.00287161
JUNB	3726	-1.34892	0.00305656
LARP1B	55132	-1.92207	0.00537288
ERI3	79033	-2.27594	0.00572774
HNRNPK	3190	-1.41562	0.006069
GAPDH	2597	-2.11893	0.0065643

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GTF3C3	9330	-1.22485	0.00770909
PTGES3	10728	-1.58117	0.0081029
C6orf89	221477	-2.07288	0.00876946
TMSB10	9168	-1.37154	0.00931897
MUT	4594	-1.20958	0.00935775
MARCH7	64844	-1.90075	0.00953564
VDAC1	7416	-1.51643	0.00983107
FLNC	2318	-1.57182	0.0101766
TUBB2C	10383	-1.57913	0.0115665
STMN1	3925	-1.76125	0.0125779
ZXDC	79364	-2.23835	0.0126348
PLIN2	123	-2.25522	0.0126477
GADD45A	1647	-1.31532	0.0126772
MT1G	4495	-3.257	0.0139021
TGFBI	7045	-4.94762	0.0142753
GAPDH	2597	-1.97096	0.0146032
TGFBI	7045	-4.93795	0.0149605
C5orf15	56951	-1.63347	0.0155564
APAF1	317	-2.12015	0.0164212
SSFA2	6744	-1.27772	0.0164345
TSPAN3	10099	-1.9111	0.0193929
AKNA	80709	-1.91751	0.0196588
CEP57	9702	-1.36969	0.0198964
BNIP2	663	-1.58036	0.0212379
MT1H	4496	-2.68709	0.0214489
MT1F	4494	-2.83056	0.022376
SEMA3B	7869	-1.4149	0.0231364
ZNF397	84307	-1.38835	0.0232594
GPN1	11321	-1.22603	0.0240497
TUBA1A	7846	-1.99834	0.0240754
AFF4	27125	-5.16341	0.024146
ABR	29	-2.2535	0.0242146
TPBG	7162	-1.8445	0.0242223
CKAP4	10970	-1.42994	0.0245084
SNRNP48	154007	-1.20219	0.0248074
TUBA4A	7277	-1.42777	0.0259096
ZNF259	8882	-1.24512	0.0263722
GSTP1	2950	-1.25414	0.0266177
PHF17	79960	-1.37776	0.0268874
CRYBB1	1414	-1.36023	0.0273384
DIP2A	23181	-1.58481	0.0279952
TLE3	7090	-1.39104	0.0280094
ZNF37A	7587	-1.23716	0.0282885
ALDOA	226	-1.41072	0.0288783
EHMT2	10919	-1.2383	0.028929
ARPP19	10776	-1.27509	0.0311636
CHCHD6	84303	-1.64994	0.0314905
RPS19	6223	-1.25264	0.0314942
DGUOK	1716	-1.3668	0.0316488
MT2A	4502	-3.1644	0.0316736
JAKMIP1	152789	-1.2631	0.0324922
ASNS	440	-1.61567	0.0329015

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KLRAQ1	129285	-1.30803	0.0330649
EPN2	22905	-1.22131	0.0332006
YWHAЕ	7531	-1.31962	0.0342017
TGFB1	7041	-1.7488	0.0347499
FASTK	10922	-1.77629	0.0349122
SAMHD1	25939	-1.22518	0.0352904
MT1E	4493	-2.97978	0.0354322
CHPF	79586	-1.30374	0.0356254
TRAPPC3	27095	-1.21129	0.0359498
TUFT1	7286	-1.44156	0.0361505
PABPN1	8106	-1.33451	0.0363263
SRGAP2P2	647135	-1.23763	0.0365264
TUBB2A	7280	-1.44293	0.0370424
CALM3	808	-1.36383	0.0381748
TLK2	11011	-1.33873	0.0390241
TMEM184B	25829	-1.26725	0.0399541
TMEM85	51234	-1.4076	0.0401057
VDAC3	7419	-1.24594	0.0403517
RHEB	6009	-1.30349	0.0407198
TJP1	7082	-1.81824	0.0421657
PRNP	5621	-1.63543	0.0425704
MGC16703	113691	-1.24643	0.04298
HNRNPA1	3178	-1.37869	0.0448667
SERPINE1	5054	-3.20709	0.0451224
RAN	5901	-1.32332	0.0459684
EIF5B	9669	-1.35853	0.0478322
BUB3	9184	-1.26241	0.0482819