## Supporting Information Table S3

The relationship between CLK2 expression and PSI value of differential splicing genes

| AS event | Gene  | P_value   |
|----------|-------|-----------|
| AACS_AP  | CLK2  | 0         |
| AACS_RI  | CLK2  | 8.10834E-11 |
| AAK1_AT  | CLK2  | 3.56233E-16 |
| AAMDC_AT | CLK2  | 3.74618E-05 |
| AAR2_AD  | CLK2  | 0.008020468 |
| ABCB8_AD | CLK2  | 1.10402E-15 |
| ABCB8_RI | CLK2  | 4.19418E-15 |
| ABCB8_RI | CLK2  | 1.0974E-17  |
| ABCB9_AP | CLK2  | 9.36896E-05 |
| ABCB9_AT | CLK2  | 0.000147759 |
| ABCC3_RI | CLK2  | 0         |
| ABCC3_AA | CLK2  | 1.37717E-18 |
| ABCC5_AT | CLK2  | 0.0001873  |
| ABCC5_RI | CLK2  | 1.95207E-17 |
| ABCC6_AT | CLK2  | 2.43508E-11 |
| ABCD1_AT | CLK2  | 3.16129E-14 |
| ABCD1 AT  | CLK2  | 0.001163425 |
| ABCD3_AT | CLK2  | 2.93223E-05 |
| ABCD4_RI | CLK2  | 6.48727E-05 |
| ABCD4_AA | CLK2  | 0         |
| ABCD4_AD | CLK2  | 0         |
| ABHD11_ES| CLK2  | 0.003782062 |
| ABHD11_ES| CLK2  | 0.001021039 |
| ABHD14B_AA| CLK2  | 0.000299453 |
| ABHD17A_AP| CLK2  | 5.89093E-15 |
| ABHD17A_ES| CLK2  | 2.78108E-08 |
| ABHD17A_AD| CLK2  | 0         |
| ABHD3_AD | CLK2  | 0         |
| ABHD3_ES | CLK2  | 4.19647E-09 |
| ABI1_ES  | CLK2  | 8.88671E-05 |
| ABTB1_AP | CLK2  | 0         |
| ABTB1_RI | CLK2  | 0         |
| ACA11_AD | CLK2  | 0         |
| ACA11_RI | CLK2  | 0         |
| ACACA_AT | CLK2  | 0.000765331 |
| ACAD10_AT| CLK2  | 2.50857E-13 |
| ACAD8_AT | CLK2  | 0.001975118 |
| ACADVL_RI| CLK2  | 1.11783E-06 |
| ACAT2_AP | CLK2  | 5.50268E-06 |
| ACBD5_RI | CLK2  | 0.011463781 |
| ACCS_AT  | CLK2  | 4.87049E-07 |
| ACHE_RI  | CLK2  | 5.5845E-16 |
| ACIN1_AP | CLK2  | 7.56701E-07 |
| ACIN1_AD | CLK2  | 0.000153679 |
| ACIN1_RI | CLK2  | 0.000467553 |
| ACLY_ES  | CLK2  | 5.28505E-06 |
| ACOT11_AT| CLK2  | 5.088E-13  |
| ACOT2_AP | CLK2  | 1.36419E-05 |
| ACOT7_AP | CLK2  | 1.42602E-12 |
| ACOT8_AA | CLK2  | 0         |
ACP1_RI  |  CLK2  |  0
ACP1_AA  |  CLK2  |  2.86823E-13
ACP5_AP  |  CLK2  |  0.000128436
ACP2_AP  |  CLK2  |  2.28551E-12
ACP2_AP  |  CLK2  |  1.45836E-06
ACS2_ES   |  CLK2  |  0
ACSL5_AP |  CLK2  |  2.78889E-07
ACSM3_AT |  CLK2  |  0.001278208
ACSS2_AP |  CLK2  |  1.83685E-07
ACTG1_RI |  CLK2  |  2.19978E-10
ACTG1_RI |  CLK2  |  0
ACTG1_RI |  CLK2  |  2.19978E-10
ACYP2_AT |  CLK2  |  4.9236E-07
ADAM15_AD |  CLK2   |  2.1013E-17
ADAM15_ES |  CLK2   |  0
ADAM15_ES |  CLK2   |  0
ADAM15_ES |  CLK2   |  0
ADAM15_ES |  CLK2   |  0.00837584
ADAM15_ES |  CLK2   |  9.08682E-07
ADAM15_ES |  CLK2   |  0.006592161
ADAMTS12_AT |  CLK2   |  0.000476885
ADAMTS2_AT |  CLK2   |  0.00039092
ADAP1_AP  |  CLK2  |  3.58102E-06
ADAR1_RI  |  CLK2  |  5.82314E-13
ADAT2_AP  |  CLK2  |  1.02938E-15
ADCK3_AP  |  CLK2  |  2.54307E-05
ADCK5_RI  |  CLK2  |  0
ADCK5_RI  |  CLK2  |  0
ADCK5_RI  |  CLK2  |  1.56304E-16
ADCK5_ES  |  CLK2  |  1.39487E-07
ADD1_ES   |  CLK2  |  0.000256841
ADD3_ES   |  CLK2  |  0.003745034
ADK_AP    |  CLK2  |  3.37572E-07
ADM_RI    |  CLK2  |  2.33766E-16
ADM_RI    |  CLK2  |  1.34072E-14
ADNP_AP   |  CLK2  |  7.05036E-09
ADNP_AP   |  CLK2  |  2.34417E-13
ADNP_AP   |  CLK2  |  0.001600048
ADPRM_AD  |  CLK2  |  0.000212784
AFF4_AT   |  CLK2  |  0.001033728
AFMID_AT  |  CLK2  |  0.000151037
AFMID_AT  |  CLK2  |  3.0952E-07
AFTPH_ES  |  CLK2  |  1.64063E-05
AGAP3_AP  |  CLK2  |  0.008589272
AGAP3_AT  |  CLK2  |  1.89499E-06
AGAP3_ES  |  CLK2  |  0.002084154
AGAP8_AP  |  CLK2  |  8.2614E-17
AG03_AT   |  CLK2  |  0.013184853
AHCYL1_AP |  CLK2  |  0.001255214
AHCYL2_AP |  CLK2  |  3.07916E-12
AHII1_AT  |  CLK2  |  1.4913E-10
| Gene        | Code   | Value  |
|-------------|--------|--------|
| AHNAK_AT    | CLK2   | 0.000175986 |
| AIDA_AP     | CLK2   | 0.004545802  |
| AIFM1_AP    | CLK2   | 0.000225805  |
| AIG1_AT     | CLK2   | 0.011175282  |
| AIG1_AT     | CLK2   | 1.34427E-07  |
| AIMPI1_AP   | CLK2   | 1.33215E-05  |
| AK7_AT      | CLK2   | 2.47507E-07  |
| AKAP1_ES    | CLK2   | 1.15843E-16  |
| AKAP17A_AT  | CLK2   | 7.31168E-15  |
| AKIP1 RI    | CLK2   | 1.15607E-05  |
| AKNA_AT     | CLK2   | 0.003309125  |
| AKR1A1_AT   | CLK2   | 8.78528E-05  |
| AKR1C2_AT   | CLK2   | 8.78528E-05  |
| AKT1_AP     | CLK2   | 2.07739E-16  |
| AKT1_AD     | CLK2   | 0.001967341  |
| AKT1S1_AP   | CLK2   | 2.33454E-08  |
| AKT3_AT     | CLK2   | 2.21366E-08  |
| ALAS1_ES    | CLK2   | 0.004033285  |
| ALDH18A1_AD | CLK2   | 1.6263E-10   |
| ALDH3A2_ES  | CLK2   | 0         |
| ALG13_AT    | CLK2   | 0         |
| ALG2_ES     | CLK2   | 8.87123E-06  |
| ALKBH6_AD   | CLK2   | 1.66451E-08  |
| ALS2_AT     | CLK2   | 1.7112E-08   |
| ALS2CL_RI   | CLK2   | 0         |
| ALS2CL_RI   | CLK2   | 0         |
| ALS2CL-AA   | CLK2   | 0         |
| ALS2CL_RI   | CLK2   | 0         |
| AMACR_RI    | CLK2   | 0.000115411 |
| AMZ2_RI     | CLK2   | 0.002389408 |
| ANAPC10_ES  | CLK2   | 0.000450569  |
| ANAPC11_ES  | CLK2   | 0.014132572  |
| ANAPC11_AD  | CLK2   | 0.005790662  |
| ANAPC11_ES  | CLK2   | 0.01523496   |
| ANAPC13_AD  | CLK2   | 0.000772436  |
| ANAPC15_AT  | CLK2   | 1.2091E-06   |
| ANAPC7_AT   | CLK2   | 6.24443E-05  |
| ANGEL1_AP   | CLK2   | 3.70018E-11  |
| ANGEL2_ES   | CLK2   | 0.048861653  |
| ANKDD1A_ES  | CLK2   | 0.00021472   |
| ANKH_AT     | CLK2   | 0.004266673  |
| ANKHD1_ES   | CLK2   | 0.003208125  |
| ANKLE2_AP   | CLK2   | 2.55092E-17  |
| ANKMY1_AT   | CLK2   | 0.000196012  |
| ANKR1D0_AT  | CLK2   | 8.08328E-05  |
| ANKR1D0_ES  | CLK2   | 1.48509E-10  |
| ANKR1D1_ES  | CLK2   | 6.4157E-11   |
| ANKR1D1_AT  | CLK2   | 1.77692E-07  |
| ANKR1D3D_AP | CLK2   | 2.69823E-12  |
| Gene Symbol | Description | Value |
|-------------|-------------|-------|
| ANKRD13D_ES| CLK2        | 9.95129E-06 |
| ANKRD17_ES | CLK2        | 0.010770369 |
| ANKRD29_AT | CLK2        | 5.34991E-05 |
| ANKRD39_AT | CLK2        | 0           |
| ANKRD42_AT | CLK2        | 0.00026017  |
| ANKRD46_AD | CLK2        | 5.2323E-17  |
| ANKRD49_RI | CLK2        | 6.54255E-16 |
| ANKRD49_AD | CLK2        | 0.000160303 |
| ANKRD9 RI  | CLK2        | 1.28081E-12 |
| ANKRD9 AA  | CLK2        | 2.13459E-15 |
| ANKRD9 ES  | CLK2        | 0.001941061 |
| ANKS3 ES   | CLK2        | 8.77249E-09 |
| ANKS6 RI   | CLK2        | 0.008353488 |
| ANO6_AT    | CLK2        | 0.0019168   |
| ANO7 AT    | CLK2        | 1.18931E-05 |
| ANTXR1_AT  | CLK2        | 3.36512E-06 |
| ANXA13_ES  | CLK2        | 1.3398E-08  |
| AOAH_ES    | CLK2        | 4.12806E-13 |
| APIG1_AP   | CLK2        | 6.12976E-05 |
| APIG2 RI   | CLK2        | 9.02965E-11 |
| APIG2 AD   | CLK2        | 4.6442E-09  |
| APIS2_AA   | CLK2        | 3.49162E-05 |
| APIS3_AT   | CLK2        | 0.010469506 |
| AP4B1_AT   | CLK2        | 0           |
| AP4M1_AP   | CLK2        | 3.41214E-05 |
| APBB2_ES   | CLK2        | 0.001005701 |
| APBB3 RI   | CLK2        | 2.89605E-16 |
| APEH_ES    | CLK2        | 3.92182E-05 |
| APEX1 AD   | CLK2        | 4.91215E-05 |
| APIP AT    | CLK2        | 3.87913E-08 |
| APLP2 ES   | CLK2        | 2.48985E-12 |
| APLP2 ES   | CLK2        | 0.012875369 |
| APMAP_ES   | CLK2        | 0.014726889 |
| APOBEC3B RI| CLK2        | 0.002718381 |
| APOBEC3F AT| CLK2        | 0.003015721 |
| APOC1_ES   | CLK2        | 0.001096236 |
| APOL1 AA   | CLK2        | 0.006198817 |
| APOL2 ES   | CLK2        | 9.24433E-06 |
| APPL2 AP   | CLK2        | 6.40523E-15 |
| APRT AA    | CLK2        | 0.002126593 |
| APTX AP    | CLK2        | 2.48468E-09 |
| APTX AA    | CLK2        | 3.39704E-05 |
| AQPI1 AP   | CLK2        | 1.61881E-05 |
| ARAP1 AP   | CLK2        | 0           |
| ARAP1 AP   | CLK2        | 1.31968E-05 |
| ARFGAP1 ES | CLK2        | 0.005948225 |
| ARFGAP1 AA | CLK2        | 0.013155932 |
| ARFGAP1 ES | CLK2        | 0           |
| ARFGAP2 AA | CLK2        | 2.93488E-05 |
| ARFIP1 AD  | CLK2        | 1.34847E-05 |
| ARFIP2 ES  | CLK2        | 0           |
| ARFRP1 AP  | CLK2        | 1.32432E-13 |
| ARFRP1 RI  | CLK2        | 1.87077E-15 |
| Gene          | Condition | Value     |
|--------------|-----------|-----------|
| ARHGAP11A_AT | CLK2      | 0.002419345 |
| ARHGAP26_AD  | CLK2      | 0.002954539 |
| ARHGAP32_RI  | CLK2      | 4.35622E-11  |
| ARHGAP32_RI  | CLK2      | 0.000640308  |
| ARHGAP8_ES   | CLK2      | 1.15729E-06  |
| ARHGEF1_AP   | CLK2      | 0.001281233  |
| ARHGEF1_AP   | CLK2      | 1.48534E-16  |
| ARHGEF16_AP  | CLK2      | 3.24631E-11  |
| ARHGEF16_AP  | CLK2      | 1.15933E-13  |
| AID5A_ES     | CLK2      | 3.72815E-08  |
| ARIH2_AP     | CLK2      | 0           |
| ARIH2_ES     | CLK2      | 2.60808E-06  |
| ARL16_AP     | CLK2      | 0.010647004  |
| ARL16_ES     | CLK2      | 0           |
| ARL16_ES     | CLK2      | 2.06668E-12  |
| ARL17B_AT    | CLK2      | 9.91744E-06  |
| ARL6P4_RI    | CLK2      | 0           |
| ARL6P4_AD    | CLK2      | 4.00033E-05  |
| ARL6P4_AD    | CLK2      | 2.50296E-05  |
| ARL6P4_AD    | CLK2      | 4.27477E-05  |
| ARMC6_AD     | CLK2      | 2.05439E-05  |
| ARMCX3_AP    | CLK2      | 0.000216089  |
| ARMCX5_RI    | CLK2      | 3.18007E-15  |
| ARMCX5_AD    | CLK2      | 1.44837E-15  |
| ARPC1A_AT    | CLK2      | 0.00275573   |
| ARRB2_AP     | CLK2      | 0           |
| ARRB2_ES     | CLK2      | 9.95943E-13  |
| ARRB2_ES     | CLK2      | 1.86921E-05  |
| ARRDRC1_RI   | CLK2      | 0           |
| ARSA_RI      | CLK2      | 2.6201E-07   |
| ARSA_RI      | CLK2      | 6.99433E-07  |
| ARSE_AP      | CLK2      | 0.004850083  |
| ARSK_AT      | CLK2      | 0.000193737  |
| ASAH1_AP     | CLK2      | 2.41724E-07  |
| ASCC1_AP     | CLK2      | 1.04083E-15  |
| ASCC2_ES     | CLK2      | 0.000159335  |
| ASCC3_AT     | CLK2      | 0.00468024   |
| ASGR1_AT     | CLK2      | 0.031620403  |
| ASL_ES       | CLK2      | 0.004149135  |
| ASNS_AP      | CLK2      | 1.50308E-08  |
| ASNS_AA      | CLK2      | 0           |
| ASNS_ES      | CLK2      | 0.003493879  |
| ASPH_AT      | CLK2      | 0.001030315  |
| ASPSCR1_AT   | CLK2      | 4.88004E-10  |
| ASPSCR1_ES   | CLK2      | 0           |
| ASS1_ME      | CLK2      | 2.7714E-07   |
| ASTN2_AT     | CLK2      | 3.34781E-13  |
| ASXL1_AP     | CLK2      | 2.64446E-08  |
| ATAD3A_AP    | CLK2      | 3.66177E-06  |
| ATAD3A_AA    | CLK2      | 0           |
| ATE1_AP      | CLK2      | 1.78876E-05  |
| ATF3_AA      | CLK2      | 0           |
| Gene Code | Condition | Value |
|-----------|-----------|-------|
| ATF5_AP   | CLK2      | 0.008468324 |
| ATF5_AT   | CLK2      | 2.49103E-05 |
| ATF7_AP   | CLK2      | 0.000342344 |
| ATF7_AT   | CLK2      | 3.77591E-09 |
| ATG10_ES  | CLK2      | 0.016290449 |
| ATG12_AD  | CLK2      | 7.6645E-13  |
| ATG16L2_AT| CLK2      | 0.008509248 |
| ATG16L2_AD| CLK2      | 0          |
| ATG16L2_RI| CLK2      | 0          |
| ATG16L2_AA| CLK2      | 0.000262069 |
| ATG4B_AD  | CLK2      | 0          |
| ATG5_AP   | CLK2      | 0.000382644 |
| ATG9A_AP  | CLK2      | 1.12265E-05 |
| ATMIN_AP  | CLK2      | 2.9898E-07  |
| ATMIN_AP  | CLK2      | 4.17094E-13 |
| ATP13A2_ES| CLK2      | 0.000387413 |
| ATP2A2_RI | CLK2      | 0.002388559 |
| ATP5G3_RI | CLK2      | 0.000364673 |
| ATP5SL_AP | CLK2      | 0.000112273 |
| ATP5SL_AT | CLK2      | 0.000208873 |
| ATP6V0A2_AP| CLK2      | 5.69606E-16 |
| ATP6V0B_ES| CLK2      | 0          |
| ATP6V0B_AD| CLK2      | 8.37182E-13 |
| ATP6V0D1_AP| CLK2   | 1.65276E-08 |
| ATP6V1D_AT| CLK2      | 1.24344E-11 |
| ATP6V1E2_AP| CLK2     | 0.003169151 |
| ATP8B2_AT | CLK2      | 3.54195E-05 |
| ATP9B_AT  | CLK2      | 1.28664E-17 |
| ATPAF2_AT | CLK2      | 0.000391564 |
| ATRN_AT   | CLK2      | 0.004839055 |
| ATXN2L_RI | CLK2      | 0.001274104 |
| ATXN2L_RI | CLK2      | 1.13682E-13 |
| ATXN2L_RI | CLK2      | 1.7648E-08  |
| ATXN2L_RI | CLK2      | 3.8983E-13  |
| ATXN2L_ES | CLK2      | 0.007221631 |
| ATXN2L_RI | CLK2      | 3.20729E-17 |
| ATXN2L_AD | CLK2      | 1.54613E-06 |
| ATXN7L1_AT| CLK2      | 4.84475E-14 |
| AUH_AT    | CLK2      | 2.7251E-14  |
| AUP1_AA   | CLK2      | 0          |
| AURKA_ES  | CLK2      | 0.000355305 |
| AURKA_ES  | CLK2      | 0.001357532 |
| AURKA_AD  | CLK2      | 0.006143728 |
| AURKAIP1_RI| CLK2      | 4.57949E-05 |
| AURKAIP1_AD| CLK2     | 0.013444288 |
| AXIN2_ES  | CLK2      | 2.27846E-05 |
| AXL_AP    | CLK2      | 0.000191943 |
| AZGP1_RI  | CLK2      | 0          |
| B2M_AT    | CLK2      | 1.35938E-09 |
| B3GAT3_ES | CLK2      | 0          |
| B3GN5T5_AP| CLK2      | 1.79214E-06 |
| Gene       | Expression Level |
|------------|-----------------|
| B4GALT2_AP | 4.28372E-06     |
| B4GALT3_AA | 5.68041E-05     |
| B4GALT4_AP | 0.000853743     |
| B4GALT4_ES | 1.85472E-05     |
| B4GALT4_ES | 0.000976115     |
| B9D1_RI    | 0               |
| BABAM1_AA  | 1.5386E-09      |
| BAD_RI     | 1.72042E-06     |
| BAG1_ES    | 5.17943E-07     |
| BAIAP2_AT  | 0.008617785     |
| BAIAP2_ES  | 0.015306874     |
| BBC3_AP    | 0.009317333     |
| BBS1_RI    | 0               |
| BBS1_ES    | 0               |
| BBS5_AT    | 3.87042E-05     |
| BCAM_AT    | 7.58819E-07     |
| BCAR3_AP   | 1.02849E-07     |
| BCAR3_AP   | 2.00501E-08     |
| BCAS1_ES   | 2.32091E-14     |
| BCAT2_ES   | 0.000505421     |
| BCAT2_ES   | 7.1316E-16      |
| BCKDHB_RI  | 1.35934E-08     |
| BCKDK_RI   | 0.004558321     |
| BCL11A_AT  | 0.001075802     |
| BCL2_AT    | 0.013650737     |
| BCL2L11_AP | 0.002218205     |
| BCL2L14_AA | 4.01528E-10     |
| BCLAF1_ES  | 8.04306E-17     |
| BCLAF1_ES  | 1.28645E-12     |
| BCLAF1_AA  | 0.000490998     |
| BCMO1_AT   | 1.32285E-06     |
| BCS1L_AD   | 1.19655E-08     |
| BCS1L_RI   | 1.8713E-15      |
| BCS1L_AD   | 0               |
| BCS1L_ES   | 3.6538E-17      |
| BCS1L_AD   | 5.76998E-14     |
| BDKRB2_AA  | 1.03555E-06     |
| BDKRB2_AA  | 7.05712E-07     |
| BECN1_AD   | 5.00557E-06     |
| BET1_AT    | 2.65401E-07     |
| BET1L_AP   | 0.00052885      |
| BET1L_AT   | 5.18041E-17     |
| BET1L_RI   | 7.34259E-12     |
| BFAR_ES    | 0.006507953     |
| BIN1_ES    | 7.03862E-05     |
| BIN1_ES    | 0.004093423     |
| BIN1_ES    | 5.05445E-06     |
| BIN3_AT    | 0               |
| BIRC5_ES   | 4.03885E-06     |
| BLCAP_AP   | 0               |
| BLOC1S1_AP | 0.000177864     |
| BLOC1S6_AT | 0               |
| BLOC1S6_ES | 7.19412E-07     |
| Gene         | Clock | Value     |
|--------------|-------|-----------|
| BLZF1_AT     | CLK2  | 0.000412255 |
| BMP1_AA      | CLK2  | 0.000263811 |
| BMP1_AA      | CLK2  | 0          |
| BMP2K_AT     | CLK2  | 0.003691559 |
| BMP4_AD      | CLK2  | 0.000328219 |
| BMP8B_AT     | CLK2  | 1.14825E-07 |
| BNC2_AT      | CLK2  | 1.83011E-13 |
| BNIP2_AP     | CLK2  | 0.000123   |
| BOD1_ES      | CLK2  | 0.007143351 |
| BOP1_RI      | CLK2  | 1.69636E-17 |
| BRD1_ES      | CLK2  | 0.012746359 |
| BRD4_AT      | CLK2  | 0.008294853 |
| BRD8_ES      | CLK2  | 2.78516E-06 |
| BRD9_AP      | CLK2  | 1.12051E-08 |
| BRD9_ES      | CLK2  | 8.98941E-07 |
| BRD9_ES      | CLK2  | 0.000526219 |
| BRD9_ES      | CLK2  | 1.43826E-09 |
| BRD9_ES      | CLK2  | 4.54304E-20 |
| BRD9_AA      | CLK2  | 2.65788E-16 |
| BRF1_AP      | CLK2  | 0          |
| BRF1_AA      | CLK2  | 3.45472E-10 |
| BRJ3_AT      | CLK2  | 0.016393779 |
| BROX_AP      | CLK2  | 0.0069258  |
| BRPF1_ES     | CLK2  | 0.000944941 |
| BRWD1_AT     | CLK2  | 5.88471E-07 |
| BSDC1_RI     | CLK2  | 0          |
| BTBD6_RI     | CLK2  | 0.002691369 |
| BTBD7_AT     | CLK2  | 3.37247E-07 |
| BTF3_AD      | CLK2  | 1.72948E-05 |
| BTN2A1_AA    | CLK2  | 6.88911E-18 |
| BTN2A1_ES    | CLK2  | 0.002038068 |
| BTN2A2_ES    | CLK2  | 0.000507496 |
| BTN3A1_AA    | CLK2  | 2.15484E-09 |
| BTNL9_AT     | CLK2  | 0.000312861 |
| BUB3_AA      | CLK2  | 0.014544813 |
| BUD3I_AP     | CLK2  | 5.57059E-15 |
| C10orf118_AT | CLK2  | 0.003765719 |
| C11orf24_AD  | CLK2  | 1.49797E-09 |
| C11orf30_AT  | CLK2  | 0          |
| C11orf49_AT  | CLK2  | 4.57042E-05 |
| C11orf49_RI  | CLK2  | 1.41694E-08 |
| C11orf49_RI  | CLK2  | 0          |
| C11orf54_ES  | CLK2  | 2.35379E-16 |
| C11orf57_AD  | CLK2  | 1.02173E-08 |
| C11orf68_AP  | CLK2  | 3.31295E-09 |
| C11orf80_ES  | CLK2  | 2.19919E-06 |
| C12orf23_AP  | CLK2  | 0.011557769 |
| C12orf36_AT  | CLK2  | 7.60555E-06 |
| C12orf57_AD  | CLK2  | 3.63107E-07 |
| C12orf65_AP  | CLK2  | 7.74327E-06 |
| C12orf66_AT  | CLK2  | 0.000602916 |
| C12orf73_AP  | CLK2  | 0.001844774 |
| C12orf73_RI  | CLK2  | 0.004483934 |
| Gene Symbol      | Regulation | Expression Value |
|------------------|------------|------------------|
| C12orf76_AT      | CLK2       | 5.84255E-05      |
| C14orf159_AP     | CLK2       | 1.06695E-05      |
| C14orf79_AP      | CLK2       | 4.51921E-07      |
| C14orf79_RI      | CLK2       | 0.00037046       |
| C14orf79_AD      | CLK2       | 8.03104E-06      |
| C14orf80_AP      | CLK2       | 0.000509257      |
| C14orf80_ES      | CLK2       | 0.00097451       |
| C15orf27_AT      | CLK2       | 8.92468E-05      |
| C15orf38_AP      | CLK2       | 0.000126098      |
| C15orf57_AT      | CLK2       | 1.08912E-11      |
| C16orf13_ES      | CLK2       | 0.001705241      |
| C16orf58_RI      | CLK2       | 0                |
| C16orf59_RI      | CLK2       | 3.14249E-06      |
| C17orf58_AD      | CLK2       | 0.000239633      |
| C17orf62_AP      | CLK2       | 5.77536E-13      |
| C17orf62_AP      | CLK2       | 1.12444E-13      |
| C17orf62_AD      | CLK2       | 1.66894E-07      |
| C17orf70_AP      | CLK2       | 1.92844E-14      |
| C17orf97_AT      | CLK2       | 5.45666E-05      |
| C18orf32_AD      | CLK2       | 0.014211176      |
| C19orf25_AA      | CLK2       | 0                |
| C19orf25_AD      | CLK2       | 4.49044E-17      |
| C19orf43_AA      | CLK2       | 0                |
| C19orf44_AT      | CLK2       | 4.18285E-07      |
| C19orf48_AP      | CLK2       | 0                |
| C19orf48_RI      | CLK2       | 1.74676E-14      |
| C19orf55_AT      | CLK2       | 5.9796E-05       |
| C19orf66_ES      | CLK2       | 7.02865E-17      |
| C19orf66_ES      | CLK2       | 0.00403178       |
| C19orf70_AT      | CLK2       | 9.82849E-08      |
| C19orf82_AT      | CLK2       | 2.72027E-10      |
| C1orf106_AP      | CLK2       | 1.8143E-13       |
| C1orf131_RI      | CLK2       | 0                |
| C1orf159_AD      | CLK2       | 6.71564E-16      |
| C1orf198_AP      | CLK2       | 1.98701E-05      |
| C1orf213_RI      | CLK2       | 4.6122E-07       |
| C1orf213_RI      | CLK2       | 1.46931E-07      |
| C1orf54_Ap       | CLK2       | 7.03088E-09      |
| C1orf63_AA       | CLK2       | 1.45258E-06      |
| C1orf85_AT       | CLK2       | 0.000207707      |
| C1QTNF1_AP       | CLK2       | 0.000767782      |
| C1RL_AT          | CLK2       | 6.43399E-18      |
| C1RL_AA          | CLK2       | 4.49417E-11      |
| C1S_AP           | CLK2       | 1.76343E-11      |
| C20orf96_AT      | CLK2       | 0                |
| C20orf96_ES      | CLK2       | 0.00631601       |
| C21orf958_AP     | CLK2       | 1.6432E-15       |
| C21orf958_AP     | CLK2       | 1.28763E-06      |
| C21orf958_RI     | CLK2       | 0.000364231      |
| C22orf39_AT      | CLK2       | 5.58522E-05      |
| C2ORF15_AP       | CLK2       | 1.15259E-05      |
| C2ORF15_AT       | CLK2       | 3.06702E-05      |
| C2orf68_AT       | CLK2       | 0                |
| Gene        | Exon | Feature | CLK2     |
|-------------|------|---------|----------|
| C2orf68_RI  |      |         | 0.00058497  |
| C2orf76_AP  |      |         | 0         |
| C3orf17_AT  |      |         | 5.91889E-06  |
| C3orf52_AT  |      |         | 1.7786E-08  |
| C4BPB_AT    |      |         | 0.001299998  |
| C4orf19_AT  |      |         | 5.42494E-12  |
| C4orf29_AT  |      |         | 1.2402E-05  |
| C4orf33_AP  |      |         | 1.08762E-08  |
| C4orf33_AT  |      |         | 2.3324E-05  |
| C4orf36_AT  |      |         | 0.0019969  |
| C5orf28_AP  |      |         | 1.77332E-09  |
| C5orf30_AP  |      |         | 1.82508E-05  |
| C5orf30_AP  |      |         | 0.00677936  |
| C5orf45_RI  |      |         | 0         |
| C5orf56_AT  |      |         | 2.89361E-11  |
| C5orf63_AT  |      |         | 6.34302E-09  |
| C5orf63_AT  |      |         | 0.000225174  |
| C5orf63_ES  |      |         | 4.44494E-06  |
| C6orf1_AD   |      |         | 0.000384227  |
| C6orf132_AT |      |         | 0         |
| C6orf203_ES |      |         | 4.49227E-05  |
| C6orf203_AD |      |         | 1.87124E-06  |
| C7orf43_AP  |      |         | 0.000115212  |
| C7orf43_AA  |      |         | 0         |
| C8orf59_AT  |      |         | 1.35957E-07  |
| C8orf59_AD  |      |         | 0.000647941  |
| C8orf59_ES  |      |         | 0.000260381  |
| C9orf156_AP |      |         | 8.16393E-14  |
| C9orf72_AT  |      |         | 7.82126E-05  |
| C9orf72_AT  |      |         | 0.003187684  |
| C9orf85_AT  |      |         | 0         |
| C9orf89_RI  |      |         | 0         |
| C9orf89_RI  |      |         | 0         |
| C9orf89_RI  |      |         | 0         |
| CACNB3_AP   |      |         | 6.62573E-09  |
| CALCOCO1_RI |      |         | 0         |
| CALCOCO2_ES |      |         | 1.43529E-08  |
| CALHM2_AP   |      |         | 0.000467544  |
| CALHM2_AT   |      |         | 0.001564674  |
| CALHM2_AA   |      |         | 0.009167267  |
| CALML4_ES   |      |         | 1.39946E-06  |
| CAMK2D_AT   |      |         | 3.77938E-06  |
| CAMKK2_AT   |      |         | 7.50574E-07  |
| CAMKMT_AT   |      |         | 0.006124351  |
| CAMLG_ES    |      |         | 2.81237E-06  |
| CAMLG_ES    |      |         | 1.26987E-15  |
| CAMTA1_AT   |      |         | 5.72446E-08  |
| CAMTA1_ES   |      |         | 3.87937E-05  |
| CANT1_ES    |      |         | 0.002866058  |
| CAPN10_AT   |      |         | 2.92449E-11  |
| CAPN10_ES   |      |         | 0         |
| CAPN13_AT   |      |         | 5.29857E-14  |
| CAPN15_ES   |      |         | 2.74737E-05  |
| CAPN2_AP    |      |         | 5.32716E-05  |
| Device     | Clock  | Value               |
|------------|--------|---------------------|
| CAPRIN1_AP | CLK2   | 0.005083242         |
| CARD14_AT  | CLK2   | 7.63748E-08         |
| CARD6_AT   | CLK2   | 0.019767121         |
| CARD8_AT   | CLK2   | 0.00011056          |
| CARD8_ES   | CLK2   | 1.50813E-05         |
| CARKD_AA   | CLK2   | 3.48839E-17         |
| CARKD_RI   | CLK2   | 0                   |
| CARKD_RI   | CLK2   | 2.85322E-17         |
| CARM1_RI   | CLK2   | 0                   |
| CARS_ES    | CLK2   | 0.000579345         |
| CASC4_ES   | CLK2   | 9.88009E-08         |
| CASP7_AP   | CLK2   | 6.43578E-07         |
| CBFB_AD    | CLK2   | 0.000165261         |
| CBR4_ES    | CLK2   | 0                   |
| CBWD1_AT   | CLK2   | 0.002555049         |
| CBWD2_ES   | CLK2   | 4.78318E-13         |
| CBWD3_AT   | CLK2   | 0.004130961         |
| CBWD5_AT   | CLK2   | 9.14503E-05         |
| CBWD6_AT   | CLK2   | 0.015644095         |
| CBY1_ES    | CLK2   | 1.10872E-08         |
| CC2D1B_AT  | CLK2   | 0.007697613         |
| CC2D1B_RI  | CLK2   | 3.16501E-12         |
| CCAR1_AD   | CLK2   | 0.007076595         |
| CCAR2_AP   | CLK2   | 0.000648415         |
| CCAR2_RI   | CLK2   | 0                   |
| CCAR2_RI   | CLK2   | 0                   |
| CCDC107_RI | CLK2   | 0.000273082         |
| CCDC107_RI | CLK2   | 1.93781E-17         |
| CCDC107_RI | CLK2   | 4.83472E-14         |
| CCDC115_ES | CLK2   | 2.05906E-17         |
| CCDC122_AT | CLK2   | 5.78425E-05         |
| CCDC124_AP | CLK2   | 3.86162E-08         |
| CCDC130_AP | CLK2   | 0.014298096         |
| CCDC132_AT | CLK2   | 1.07348E-09         |
| CCDC14_AP  | CLK2   | 7.13808E-05         |
| CCDC14_ES  | CLK2   | 0.001457333         |
| CCDC14_RI  | CLK2   | 2.09109E-16         |
| CCDC14_RI  | CLK2   | 0                   |
| CCDC144A_AT| CLK2   | 8.5438E-07          |
| CCDC157_AT | CLK2   | 7.56757E-05         |
| CCDC24_RI  | CLK2   | 0.000256391         |
| CCDC24_ES  | CLK2   | 0.001719476         |
| CCDC28B_AT | CLK2   | 4.276E-09           |
| CCDC28B_RI | CLK2   | 0                   |
| CCDC34_AT  | CLK2   | 0.005210651         |
| CCDC36_AT  | CLK2   | 0.002728216         |
| CCDC41_AT  | CLK2   | 2.74154E-06         |
| CCDC43_ES  | CLK2   | 0.000932982         |
| CCDC51_ES  | CLK2   | 0.00441319          |
| CCDC57_AT  | CLK2   | 0                   |
| CCDC64B_AP | CLK2   | 1.65998E-11         |
| CCDC64B_AP | CLK2   | 0                   |
| CCDC7_AT   | CLK2   | 8.16069E-13         |
| CCDC74A_RI | CLK2   | 0                   |
| Gene          | Phase | CLK2        |
|--------------|-------|-------------|
| CDIPT_AP     |       | 4.28596E-14|
| CDK1_ES      |       | 0.002268672|
| CDK10_RI     |       | 0           |
| CDK10_ES     |       | 5.64917E-12|
| CDK10_ES     |       | 1.94757E-06|
| CDK10_ES     |       | 0.002215315|
| CDK10_ES     |       | 1.75497E-11|
| CDK16_AP     |       | 0           |
| CDK17_AT     |       | 6.34181E-05|
| CDK18_AP     |       | 2.77687E-15|
| CDK18_AD     |       | 0.00268173  |
| CDK18_RI     |       | 0           |
| CDK2_RI      |       | 0           |
| CDK2AP1_AP   |       | 0.000167497|
| CDK5RAP3_RI  |       | 0           |
| CDK7_AP      |       | 5.3466E-05  |
| CDKL1_AT     |       | 2.8E-14     |
| CDKN1C_RI    |       | 0.00053981  |
| CDKN2A_AP    |       | 0.00450057  |
| CDKN2AIPNL_AT|       | 2.95748E-11|
| CDKN3_ES     |       | 0.000805445|
| CEACAM1_ES   |       | 8.88263E-07|
| CEACAM1_ES   |       | 1.98983E-16|
| CEACAM1_ES   |       | 1.26725E-08|
| CENPM_AT     |       | 2.23965E-05|
| CENPP_API    |       | 6.28172E-14|
| CENPT_AT     |       | 0           |
| CENPT_AA     |       | 1.14041E-09|
| CENPV_AA     |       | 2.6331E-05  |
| CENPW_AD     |       | 0.000143492|
| CEP57L1_AT   |       | 0.014126934|
| CEP63_AP     |       | 4.21659E-05|
| CEP63_ES     |       | 0.00466218  |
| CEP63_ES     |       | 0.000852307|
| CEP68_AT     |       | 3.22739E-06|
| CEP68_AD     |       | 1.06166E-17|
| CEP70_AT     |       | 2.16709E-10|
| CEP76_AT     |       | 1.17949E-08|
| CEP95_AT     |       | 0.000303021|
| CERS2_AT     |       | 0           |
| CERS5_ES     |       | 8.33043E-05|
| CES2_AD      |       | 2.48777E-15|
| CES3_AP      |       | 0           |
| CETN3_AT     |       | 9.21573E-09|
| CFH_AT       |       | 2.70803E-05|
| CFL1_AP      |       | 0.00348918  |
| CFLAR_AP     |       | 0.00710593  |
| CFLAR_AT     |       | 2.84944E-10|
| CFLAR_AT     |       | 0           |
| CFLAR_ES     |       | 0.00314956  |
| CGGBP1_RI    |       | 1.03636E-13|
| Gene Symbol      | Type  | Value         |
|------------------|-------|---------------|
| CGGBP1_AA        | CLK2  | 4.72714E-12   |
| CHCHD10_AA       | CLK2  | 0.002265907   |
| CHCHD3_AT        | CLK2  | 0.00237708    |
| CHCHD7_AP        | CLK2  | 0.014050117   |
| CHD2_AT          | CLK2  | 1.00569E-13   |
| CHEK1_AP         | CLK2  | 2.92881E-05   |
| CHEK2_ME         | CLK2  | 0.000317171   |
| CHID1_AP         | CLK2  | 0.011087493   |
| CHM_AT           | CLK2  | 6.59907E-17   |
| CHMP1A_ES        | CLK2  | 0.000839358   |
| CHMP2A_AP        | CLK2  | 0.004376535   |
| CHN2_AP          | CLK2  | 0.000176781   |
| CHN2_AP          | CLK2  | 0.00301209    |
| CHORDC1_AP       | CLK2  | 6.49004E-10   |
| CHORDC1_AT       | CLK2  | 0.025461332   |
| CHORDC1_RI       | CLK2  | 3.10721E-16   |
| CHRA1C_ES        | CLK2  | 0.000205188   |
| CHST5_RI         | CLK2  | 1.03014E-09   |
| CHTF18_AD        | CLK2  | 9.47531E-09   |
| CHTF8_RI         | CLK2  | 6.30137E-06   |
| CHTOP_AP         | CLK2  | 1.54638E-11   |
| CHTOP_AT         | CLK2  | 4.74725E-13   |
| CHTOP_AD         | CLK2  | 5.3716E-18    |
| CHTOP_ES         | CLK2  | 1.08578E-07   |
| CIDEB_AP         | CLK2  | 0.000151364   |
| CIRBP_RI         | CLK2  | 0.000369397   |
| CIRBP_RI         | CLK2  | 6.19365E-06   |
| CIRBP_RI         | CLK2  | 0               |
| CIRBP_RI         | CLK2  | 4.41693E-10   |
| CIRBP_ES         | CLK2  | 5.71082E-07   |
| CIRBP_ES         | CLK2  | 1.77614E-06   |
| CIZ1_RI          | CLK2  | 0.011543713   |
| CIZ1_AA          | CLK2  | 0.005576643   |
| CIZ1_AA          | CLK2  | 1.11409E-06   |
| CIZ1_RI          | CLK2  | 0.011543713   |
| CKLF_AT          | CLK2  | 3.33193E-09   |
| CKLF_ES          | CLK2  | 1.09376E-12   |
| CKLF-AA          | CLK2  | 1.607E-08     |
| CKLF-CMTM1_AT    | CLK2  | 0               |
| CKMT1A_AA        | CLK2  | 0               |
| CKMT1B_AT        | CLK2  | 0               |
| CKMT1B_AA        | CLK2  | 0               |
| CKMT1B_AA        | CLK2  | 4.88546E-16    |
| CLASRP_AD        | CLK2  | 0.000291391    |
| CLCN3_ES         | CLK2  | 0.002352452    |
| CLCN6_AT         | CLK2  | 0.002721209    |
| CLDN11_AT        | CLK2  | 9.51054E-06    |
| CLDN7_AP         | CLK2  | 0               |
| CLDN1_AP         | CLK2  | 5.40204E-16    |
| CLDN1_AT         | CLK2  | 4.89385E-05    |
| CLEC16A_AT       | CLK2  | 0.007619752    |
| CLEC5A_AT        | CLK2  | 8.95896E-05    |
| CLINT1_AA        | CLK2  | 6.7867E-07     |
| CLK1_AP          | CLK2  | 3.01121E-07    |
| CLK2_AP          | CLK2  | 0.000625627    |
| Gene      | Clock | Value      |
|-----------|-------|------------|
| CLK4_ES   | CLK2  | 0.005213387|
| CLN3_AP   | CLK2  | 0.00279485 |
| CLNS1A_AT | CLK2  | 0.001590331|
| CLPTM1_AP | CLK2  | 2.20106E-07|
| CLSN3_AP  | CLK2  | 0           |
| CLTB_ES   | CLK2  | 3.77199E-06|
| CLTC_ES   | CLK2  | 0.0138463   |
| CMC4_AP   | CLK2  | 1.79171E-10|
| CNDP2_AA  | CLK2  | 0.000159015 |
| CNIH4_AA  | CLK2  | 0.001613856 |
| CNKS1_RI  | CLK2  | 1.32094E-12|
| CNKS1_A   | CLK2  | 1.28096E-05|
| CNN1_AP   | CLK2  | 0           |
| CNNM2_AT  | CLK2  | 1.62667E-05|
| CNOT10_AT | CLK2  | 2.52218E-12|
| CNOT2_AT  | CLK2  | 1.97624E-06|
| CNOT3_AP  | CLK2  | 0           |
| CNOT4_AT  | CLK2  | 4.2899E-12  |
| CNTROB_AD | CLK2  | 0           |
| COA1_AT   | CLK2  | 1.2296E-11  |
| COA3_AT   | CLK2  | 3.65705E-09 |
| COA4_ES   | CLK2  | 0.006723003 |
| COA5_AT   | CLK2  | 3.8653E-07  |
| COA6_AP   | CLK2  | 0.000845359 |
| COASY_RI  | CLK2  | 0.002141757 |
| COASY_AA  | CLK2  | 8.56345E-05 |
| COASY_AD  | CLK2  | 0.001831711 |
| COG4_ES   | CLK2  | 0           |
| COG4_ES   | CLK2  | 3.42189E-18 |
| COL12A1_ES| CLK2  | 0           |
| COL14A1_AT| CLK2  | 0.011980292 |
| COL1A1_ES | CLK2  | 0.004072157 |
| COL1A1_ES | CLK2  | 0.001416921 |
| COL1A1_ES | CLK2  | 0.001647768 |
| COL1A1_ES | CLK2  | 0.004653118 |
| COL3A1_ES | CLK2  | 0.005027165 |
| COL6A2_AT | CLK2  | 0.002238672 |
| COL6A2_AA | CLK2  | 8.31089E-05 |
| COL6A3_ES | CLK2  | 8.18172E-05 |
| COL6A3_ES | CLK2  | 5.67689E-07 |
| COMM4D_AT | CLK2  | 1.90183E-05 |
| COMM7_RI  | CLK2  | 0           |
| COMT_AP   | CLK2  | 0.000112338 |
| COMT_AA   | CLK2  | 0.002121416 |
| COPB1_AD  | CLK2  | 1.47311E-08 |
| COP5A_AD  | CLK2  | 0.001838146 |
| COQ3_ES   | CLK2  | 7.09257E-05 |
| COQ4_AT   | CLK2  | 1.23525E-05 |
| COQ6_RI   | CLK2  | 0.005847843 |
| CORIN_AT  | CLK2  | 6.55327E-05 |
| CORO7_AD  | CLK2  | 3.23456E-06 |
| COX10_AT  | CLK2  | 1.84293E-05 |
| COX19_AT  | CLK2  | 0.000136011 |
| Gene          | Time | Expression |
|--------------|------|------------|
| COX20_ES     | CLK2 | 8.30039E-05|
| COX20_ES     | CLK2 | 6.31739E-08|
| COX4I1_AA    | CLK2 | 0          |
| COX4I1_ES    | CLK2 | 0          |
| COX4I1_RI    | CLK2 | 1.34082E-17|
| COX6C_AT     | CLK2 | 3.7806E-06 |
| COX7C_RI     | CLK2 | 3.73816E-14|
| CPNE1_AD     | CLK2 | 7.61658E-06|
| CPNE1_AA     | CLK2 | 3.14662E-18|
| CPSF3L_AA    | CLK2 | 0          |
| CPSF3L_AA    | CLK2 | 0          |
| CPSF7_AD     | CLK2 | 1.02598E-05|
| CRB3_AP      | CLK2 | 7.05206E-11|
| CREB3L2_AP   | CLK2 | 0.001920167|
| CREB3L2_AT   | CLK2 | 0.004665033|
| CREB3L4_RI   | CLK2 | 2.06515E-18|
| CREBZF_RI    | CLK2 | 4.73594E-05|
| CRELD1_ES    | CLK2 | 3.36104E-12|
| CRELD1_RI    | CLK2 | 2.39035E-18|
| CRELD1_RI    | CLK2 | 7.71691E-09 |
| CRELD1_RI    | CLK2 | 4.20325E-09 |
| CRIPI1_AT    | CLK2 | 1.95373E-06 |
| CRK_AD       | CLK2 | 2.74568E-06 |
| CRYZL1_AT    | CLK2 | 0          |
| CRYZL1_AA    | CLK2 | 1.67338E-10|
| CSF1_AT      | CLK2 | 7.6426E-07 |
| CSNK1E_AA    | CLK2 | 4.33454E-13|
| CSTF3_RI     | CLK2 | 0          |
| CTAGE5_AP    | CLK2 | 0.00126552 |
| CTAGE5_AP    | CLK2 | 1.15901E-10|
| CTBP1_AP     | CLK2 | 0          |
| CTBP2_AP     | CLK2 | 0.000335509|
| CTBP2_AP     | CLK2 | 2.70353E-06|
| CTBS_AD      | CLK2 | 5.93468E-07|
| CTNNBIP1_AP  | CLK2 | 0.000289758|
| CTNND1_RI    | CLK2 | 0.004700407|
| CTNND1_ES    | CLK2 | 0.00015686 |
| CTNS_AT      | CLK2 | 7.74383E-06|
| CTPS2_AP     | CLK2 | 0.004373358|
| CTSB_ES      | CLK2 | 0.000339781|
| CTTN_ME      | CLK2 | 1.09209E-10|
| CTTN_ES      | CLK2 | 0          |
| CTTN_ES      | CLK2 | 0          |
| CUL4A_AP     | CLK2 | 0.000480267|
| CUL7_AD      | CLK2 | 3.36434E-07|
| CUX1_AT      | CLK2 | 3.16358E-12|
| CUZD1_AP     | CLK2 | 4.2058E-08 |
| CWC25_AD     | CLK2 | 0          |
| CX3CL1_AP    | CLK2 | 0.012052712|
| CXCL12_AT    | CLK2 | 4.23089E-10|
| CXCL12_AT    | CLK2 | 0.000938144|
| CXCL12_ES    | CLK2 | 1.41706E-16|
| Cxorf36_AT   | CLK2 | 0.000137065|
| Gene                | Stage | Value     |
|---------------------|-------|-----------|
| CXorf38_RI          | CLK2  | 7.14921E-17 |
| CXorf38_AA          | CLK2  | 0         |
| CXorf40A_AP         | CLK2  | 3.37418E-16 |
| CXorf40A_RI         | CLK2  | 0         |
| CYB561A3_RI         | CLK2  | 0         |
| CYB561A3_RI         | CLK2  | 0         |
| CYB561A3_RI         | CLK2  | 0         |
| CYB561D2_RI         | CLK2  | 2.42714E-05 |
| CYB561D2_RI         | CLK2  | 1.2947E-07  |
| CYB5R2_ES           | CLK2  | 0.003310155 |
| CYGB_AP             | CLK2  | 6.50345E-06 |
| CYHR1_AT            | CLK2  | 0.006832084 |
| CYHR1_RI            | CLK2  | 2.84981E-11 |
| CYHR1_RI            | CLK2  | 1.13883E-07 |
| CYLD_AT             | CLK2  | 0.003258181 |
| CYP20A1_ES          | CLK2  | 0.000170413 |
| CYP3A5_AT           | CLK2  | 0.009214105 |
| CYP3A5_RI           | CLK2  | 0         |
| CYP3A5_ES           | CLK2  | 4.14899E-07 |
| CYP3A5_AA           | CLK2  | 7.03903E-11 |
| CYP3A5_ES           | CLK2  | 0.005639642 |
| CYP4F12_RI          | CLK2  | 0         |
| CYP4F12_RI          | CLK2  | 0         |
| CYP4F12_ES          | CLK2  | 0         |
| D2HGDH_ES           | CLK2  | 2.43054E-06 |
| D2HGDH_ES           | CLK2  | 0         |
| D2HGDH_ES           | CLK2  | 8.22155E-08 |
| DAB2_ES             | CLK2  | 1.07749E-06 |
| DACT3_AT            | CLK2  | 8.45037E-07 |
| DAGLB_AP            | CLK2  | 0.007700377 |
| DALRD3_AA           | CLK2  | 0.004099588 |
| DAPK2_ES            | CLK2  | 3.52203E-13 |
| DAPK2_ES            | CLK2  | 0.000159856 |
| DARs2_ES            | CLK2  | 0.002847212 |
| DAZAP1_AT           | CLK2  | 9.68207E-06 |
| DAZAP1_ES           | CLK2  | 4.65553E-16 |
| DBF4_AD             | CLK2  | 0.001234408 |
| DBNDD2_AP           | CLK2  | 0         |
| DBNDD2_AP           | CLK2  | 0         |
| DBNDD2_AD           | CLK2  | 7.62396E-07 |
| DBNDD2_AD           | CLK2  | 1.5212E-05 |
| DCAF11_AP           | CLK2  | 0.001065188 |
| DCAF13_AT           | CLK2  | 2.46705E-12 |
| DCAF4_AT            | CLK2  | 4.74499E-07 |
| DCAF6_ES            | CLK2  | 7.87355E-08 |
| DCAF6_ES            | CLK2  | 3.06065E-07 |
| DCAF8_AP            | CLK2  | 7.98957E-08 |
| DCAF8_ES            | CLK2  | 0         |
| DCAF8_AD            | CLK2  | 2.82865E-06 |
| DCAF8_ES            | CLK2  | 0.000248901 |
| DCP1A_ES            | CLK2  | 0.000177393 |
| DCP1A_ES            | CLK2  | 0.001782771 |
| Component       | CLK2         | Value            |
|-----------------|--------------|------------------|
| DCST1_AT        | CLK2         | 1.75837E-15      |
| DCTD_ES         | CLK2         | 2.07659E-08      |
| DCTD_ES         | CLK2         | 8.66603E-08      |
| DCTD_ES         | CLK2         | 0.000197729      |
| DCTN1_AP        | CLK2         | 0.000480405      |
| DCTN2_ES        | CLK2         | 0.002667715      |
| DCTN5_ES        | CLK2         | 2.81299E-07      |
| DCTPP1_AP       | CLK2         | 0.001003216      |
| DCUN1D2_ES      | CLK2         | 1.28373E-08      |
| DCUN1D4_AD      | CLK2         | 1.02973E-17      |
| DDB1_AP         | CLK2         | 3.11593E-12      |
| DDB2_ES         | CLK2         | 0.000274584      |
| DDC_AP          | CLK2         | 0                |
| DDIT3_RI        | CLK2         | 0.000794821      |
| DDIT3_RI        | CLK2         | 7.97041E-06      |
| DDRGK1_AT       | CLK2         | 0                |
| DDX10_AT        | CLK2         | 0.000688526      |
| DDX11_AT        | CLK2         | 6.2844E-13       |
| DDX11_RI        | CLK2         | 0                |
| DDX11_AA        | CLK2         | 6.23017E-17      |
| DDX11 AA        | CLK2         | 0                |
| DDX11_ES        | CLK2         | 0.001485878      |
| DDX17_AP        | CLK2         | 2.29946E-05      |
| DDX19B_AT       | CLK2         | 3.53083E-07      |
| DDX20_RI        | CLK2         | 5.8751E-11       |
| DDX20_RI        | CLK2         | 8.06683E-14      |
| DDX39A_AA       | CLK2         | 0                |
| DDX41_AA        | CLK2         | 2.51668E-18      |
| DDX55_AA        | CLK2         | 0.000826887      |
| DDX59_AT        | CLK2         | 0.002428545      |
| DECR1_ES        | CLK2         | 1.79502E-09      |
| DECR2_ES        | CLK2         | 5.92524E-18      |
| DECR2_ES        | CLK2         | 9.05055E-09      |
| DECR2_ES        | CLK2         | 0                |
| DEF8_AT         | CLK2         | 6.3067E-05       |
| DENND1B_AT      | CLK2         | 0.00879545       |
| DENND2A_AT      | CLK2         | 2.70562E-15      |
| DENND3_AP       | CLK2         | 1.44158E-13      |
| DENND3_AT       | CLK2         | 1.55834E-08      |
| DENND5B_AT      | CLK2         | 1.72489E-10      |
| DERL2_AD        | CLK2         | 5.22759E-12      |
| DERL3_RI        | CLK2         | 8.90741E-11      |
| DERL3_RI        | CLK2         | 3.82921E-07      |
| DFNB31_AP       | CLK2         | 1.36238E-12      |
| DGAT1_RI        | CLK2         | 0                |
| DGCR14_AA       | CLK2         | 4.62509E-07      |
| DGCR6_AT        | CLK2         | 1.33816E-06      |
| DGKD_ES         | CLK2         | 1.11808E-10      |
| DGUOK_ES        | CLK2         | 0.000166286      |
| DHDDS_AT        | CLK2         | 0.002044343      |
| DHDDS_AT        | CLK2         | 5.91946E-08      |
| DHDDS AA        | CLK2         | 1.06158E-15      |
| DHPS_AD         | CLK2         | 1.79864E-12      |
| Gene   | Seq | Value          |
|--------|-----|----------------|
| DHRS1_RI | CLK2 | 0              |
| DHRS12_AT | CLK2 | 1.77609E-05    |
| DHRS12_RI | CLK2 | 3.80251E-16    |
| DHRS4L2_AP | CLK2 | 4.10971E-09    |
| DHRX_AT  | CLK2 | 0.000198855    |
| DIX30_AP | CLK2 | 8.77603E-08    |
| DIAPH1_ES | CLK2 | 2.67063E-05    |
| DIAPH2_AT | CLK2 | 0.00235738     |
| DIDO1_AP | CLK2 | 0.013525219    |
| DIDO1_AT | CLK2 | 0              |
| DIMT1_AT | CLK2 | 7.24305E-10    |
| DIS3L2_AT | CLK2 | 3.79067E-10    |
| DIS3L2_AT | CLK2 | 9.14731E-17    |
| DIS3L2_RI | CLK2 | 2.81957E-15    |
| DIS3L2_RI | CLK2 | 9.56428E-17    |
| DIS3L2_ES | CLK2 | 8.6345E-15     |
| DIXDC1_AT | CLK2 | 0.004917338    |
| DLD_AT   | CLK2 | 2.34839E-10    |
| DLG1_AT  | CLK2 | 0.041946413    |
| DLG1_ES  | CLK2 | 4.27077E-09    |
| DLG3_AP  | CLK2 | 0.00209043     |
| DLGAP5_ES | CLK2 | 9.99348E-06    |
| DMAP1_RI | CLK2 | 0.009187689    |
| DMKN_AP  | CLK2 | 1.30141E-08    |
| DMKN_AT  | CLK2 | 0.000267874    |
| DMPK_AP  | CLK2 | 0              |
| DMPK_ES  | CLK2 | 3.32526E-06    |
| DMPK_ES  | CLK2 | 1.09941E-06    |
| DMPK_RI  | CLK2 | 9.22514E-07    |
| DNAH2_AT | CLK2 | 0.001460553    |
| DNAJA4_AP | CLK2 | 3.08035E-12    |
| DNAJA4_AP | CLK2 | 4.51748E-05    |
| DNAJB2_RI | CLK2 | 1.63196E-08    |
| DNAJC10_AT | CLK2 | 2.96443E-08    |
| DNAJC11_ES | CLK2 | 9.04649E-05    |
| DNAJC12_AT | CLK2 | 5.08191E-05    |
| DNAJC14_AP | CLK2 | 0.002051237    |
| DNAJC16_AT | CLK2 | 0.007172522    |
| DNAJC17_AA | CLK2 | 2.13135E-11    |
| DNAJC19_AD | CLK2 | 0.000376851    |
| DNAJC19_ES | CLK2 | 1.02844E-07    |
| DNAJC2_ES | CLK2 | 2.6351E-12     |
| DNAJC21_ES | CLK2 | 0.000582255    |
| DNAJC24_AT | CLK2 | 0.008587575    |
| DNAJC4_ES | CLK2 | 4.40828E-13    |
| DNAJC7_AT | CLK2 | 3.27296E-05    |
| DNASE1_AT | CLK2 | 0.00697948     |
| DNASE1_AT | CLK2 | 2.03483E-05    |
| DNASE1_RI | CLK2 | 0.001577828    |
| DNASE1L1_AP | CLK2 | 1.29058E-11    |
| DNASE1L1_AD | CLK2 | 9.76634E-12    |
| DNM2_ES  | CLK2 | 8.1735E-14     |
| DNMT3A_AT | CLK2 | 1.578E-14      |
| Gene         | Clock | Value       |
|--------------|-------|-------------|
| DNPEP_AD     | CLK2  | 5.45551E-07 |
| DOCK8_AT     | CLK2  | 0.000124116 |
| DOK1_AP      | CLK2  | 3.76899E-07 |
| DOK4_AP      | CLK2  | 2.47719E-12 |
| DOK4_RI      | CLK2  | 3.91386E-09 |
| DPAGT1_RI    | CLK2  | 0           |
| DPH2_AA      | CLK2  | 4.06677E-18 |
| DPH6_AT      | CLK2  | 0.011839017 |
| DPP8_AP      | CLK2  | 2.60009E-11 |
| DPY30_AD     | CLK2  | 0.001050082 |
| DPYSL3_AP    | CLK2  | 0.006205475 |
| DRG2_RI      | CLK2  | 8.29571E-05 |
| DSN1_ES      | CLK2  | 0.011100572 |
| DTD2_RI      | CLK2  | 1.9291E-05  |
| DTWD1_AT     | CLK2  | 7.46968E-06 |
| DTX2_ES      | CLK2  | 0.002388268 |
| DUS4L_ES     | CLK2  | 0.003343044 |
| DUSP10_AP    | CLK2  | 1.4748E-13  |
| DUSP11_AT    | CLK2  | 2.89745E-18 |
| DUSP14_AP    | CLK2  | 0.0004887   |
| DUSP18_AT    | CLK2  | 7.09431E-14 |
| DUSP6_AP     | CLK2  | 2.4062E-05  |
| DUSP6_ES     | CLK2  | 0.006081174 |
| DUT_AP       | CLK2  | 0.010209601 |
| DYNC2L11_AT  | CLK2  | 6.83219E-06 |
| DYNLL1_RI    | CLK2  | 7.94535E-08 |
| DYNLT1_AP    | CLK2  | 2.44641E-11 |
| DYNLT3_AT    | CLK2  | 1.18115E-14 |
| DYYRK1B_AA   | CLK2  | 7.16238E-06 |
| E2F5_AP      | CLK2  | 1.09912E-05 |
| ECE1_AP      | CLK2  | 2.19574E-06 |
| ECE1_AT      | CLK2  | 1.17751E-05 |
| ECE2_AP      | CLK2  | 0           |
| ECE2_AT      | CLK2  | 7.52454E-17 |
| ECHDC1_AP    | CLK2  | 2.25492E-07 |
| ECHDC2_AT    | CLK2  | 0           |
| ECHDC2_AT    | CLK2  | 0           |
| ECHDC2_AT    | CLK2  | 0           |
| ECHDC2_AA    | CLK2  | 5.0255E-12  |
| ECHDC2_ES    | CLK2  | 0           |
| ECHDC2_ES    | CLK2  | 1.75239E-09 |
| ECHDC2_ES    | CLK2  | 0.000262873 |
| ECHDC2_ES    | CLK2  | 7.89358E-06 |
| ECHDC2_ES    | CLK2  | 2.69703E-05 |
| ECM2_AT      | CLK2  | 0.001213001 |
| ECT2_AT      | CLK2  | 2.91924E-14 |
| EDEM1_AT     | CLK2  | 0.019282804 |
| EDF1_RI      | CLK2  | 0           |
| EED_RI       | CLK2  | 3.31502E-08 |
| EEF1A1_ES    | CLK2  | 1.30893E-11 |
| EEF1A1_RI    | CLK2  | 0           |
| EEF1D_ME     | CLK2  | 0.002078056 |
| Gene    | Platform | Value  |
|---------|----------|--------|
| EEF1D_AP| CLK2     | 1.11525E-12 |
| EEF1D_ES| CLK2     | 0.002147662 |
| EEF1D_ES| CLK2     | 3.05462E-05 |
| EEF1D_ES| CLK2     | 0.013934988 |
| EEF1G_AP| CLK2     | 9.20881E-06 |
| EFCAB2_AT| CLK2     | 0.014897576 |
| EFNA3_AP| CLK2     | 3.74713E-06 |
| EGFL7_AP| CLK2     | 0.001424948 |
| EHN3_AT  | CLK2     | 2.20779E-05 |
| EHBP1_ES | CLK2     | 0.002147662 |
| EHBP1L1_AP| CLK2     | 0.002147662 |
| EHF_AP   | CLK2     | 0.00331308 |
| EIF1AD_AD| CLK2     | 0.011339023 |
| EIF2B1_AT| CLK2     | 0.000000000 |
| EIF2B1_RI| CLK2     | 0.000000000 |
| EIF2B3_AT| CLK2     | 0.000795867 |
| EIF2B4_AA| CLK2     | 0.000997658 |
| EIF2B4_RI| CLK2     | 0.005379859 |
| EIF4A1_RI| CLK2     | 4.29014E-09 |
| EIF4A1_AD| CLK2     | 1.23837E-05 |
| EIF4A2_ES| CLK2     | 1.06161E-10 |
| EIF4A2_ES| CLK2     | 2.46886E-07 |
| EIF4B_AD  | CLK2     | 2.52971E-07 |
| EIF4E2_AT | CLK2     | 0.016017466 |
| EIF4G1_AP | CLK2     | 0.005161925 |
| EIF4H_ES  | CLK2     | 7.20172E-07 |
| EIF5_AP   | CLK2     | 3.96585E-12 |
| EIF6_AP   | CLK2     | 1.48915E-06 |
| EIF6_RI   | CLK2     | 5.06361E-05 |
| ELAC1_AT  | CLK2     | 2.03428E-06 |
| ELF2_AP   | CLK2     | 0.005296608 |
| ELF2_AA   | CLK2     | 0.000289474 |
| ELF3_RI   | CLK2     | 0.000000000 |
| ELF3_RI   | CLK2     | 0.000000000 |
| ELMO2_AP  | CLK2     | 4.05237E-18 |
| ELMOD3_RI | CLK2     | 0.000000000 |
| ELMOD3_ES | CLK2     | 2.11978E-17 |
| ELMOD3_RI | CLK2     | 9.98545E-07 |
| ELMOD3_RI | CLK2     | 5.64331E-10 |
| EMC4_AT   | CLK2     | 7.41779E-11 |
| EMC4_ES   | CLK2     | 0.011730989 |
| EMC9_AA   | CLK2     | 2.97317E-13 |
| EMC9_AA   | CLK2     | 0.000000000 |
| EML2_AP   | CLK2     | 2.97086E-15 |
| EML3_AP   | CLK2     | 2.79332E-05 |
| ENGASE_AT | CLK2     | 0.000000000 |
| ENO2_AP   | CLK2     | 0.000000000 |
| ENO3_AT   | CLK2     | 0.000125153 |
| ENOSF1_AP | CLK2     | 9.97512E-11 |
| ENOSF1_AT | CLK2     | 0.000000000 |
| ENOSF1_ES | CLK2     | 0.000000000 |
| ENSA_AT   | CLK2     | 1.13024E-06 |
| ENTHD2_AD | CLK2     | 0.000000000 |
| Gene          | Clock | Value       |
|--------------|-------|-------------|
| ENTPD5_AT    | CLK2  | 1.90921E-11 |
| ENTPD6_ES    | CLK2  | 4.54614E-05 |
| ENY2_AA      | CLK2  | 5.33463E-11 |
| ENY2_AD      | CLK2  | 0.000703251 |
| EP400NL_AT   | CLK2  | 0.005906194 |
| EP400NL_AT   | CLK2  | 0           |
| EPB41L5_AT   | CLK2  | 4.02031E-11 |
| EPHA3_AT     | CLK2  | 0.00058692  |
| EPN3_AD      | CLK2  | 0.008895207 |
| EPS8L1_ES    | CLK2  | 0           |
| EPS8L2_RI    | CLK2  | 0           |
| EPS8L3_AA    | CLK2  | 3.41531E-05 |
| ERBB3_AP     | CLK2  | 0           |
| ERBB3_AT     | CLK2  | 0.00043078  |
| ERCC1_AT     | CLK2  | 3.6641E-15  |
| ERCC1_ES     | CLK2  | 5.37357E-07 |
| ERCC4_AT     | CLK2  | 6.95759E-10 |
| ERCC5_RI     | CLK2  | 0           |
| ERF_AP       | CLK2  | 1.83127E-05 |
| ERICHI1_AT   | CLK2  | 0.002334183 |
| ERMP1_AT     | CLK2  | 0.007038114 |
| ERN2_RI      | CLK2  | 0           |
| ERN2_AA      | CLK2  | 0           |
| ERN2_ES      | CLK2  | 0           |
| ERO1LB_AT    | CLK2  | 0.006868511 |
| ERRFI1_RI    | CLK2  | 0           |
| ERRFI1_AA    | CLK2  | 2.03208E-06 |
| ESAM_AT      | CLK2  | 7.49501E-05 |
| ESCO2_AT     | CLK2  | 7.63571E-06 |
| ESRP1_AD     | CLK2  | 7.46761E-14 |
| ESRP2-AA     | CLK2  | 1.65525E-14 |
| ESRR_AAP     | CLK2  | 0           |
| ESYT2_AP     | CLK2  | 0.00114593  |
| ETFA_ES      | CLK2  | 0.000131643 |
| ETFB_AP      | CLK2  | 1.83643E-15 |
| ETS1_AP      | CLK2  | 1.23763E-06 |
| ETV4_AP      | CLK2  | 0           |
| ETV7_AT      | CLK2  | 0.001299068 |
| EVA1A_AP     | CLK2  | 0.005008803 |
| EVL_AT       | CLK2  | 1.4559E-19  |
| EVPL_AD      | CLK2  | 2.19277E-13 |
| EWSR1_AT     | CLK2  | 0           |
| EXD3_AT      | CLK2  | 0.002723055 |
| EXOC3_RI     | CLK2  | 0           |
| EXOC3_AD     | CLK2  | 0           |
| EXOC6B_AT    | CLK2  | 0.00535718  |
| EXOC7_ES     | CLK2  | 0           |
| EXOC7_ES     | CLK2  | 0           |
| EXOC7_ES     | CLK2  | 0.000594193 |
| EXOSCI0_RI   | CLK2  | 0           |
| EXOSCI0_RI   | CLK2  | 0           |
| EXOSC3_AT    | CLK2  | 0           |
| Gene      | Condition | Value   |
|-----------|-----------|---------|
| EXOSC3_ES| CLK2     | 6.79591E-07 |
| EXOSC9_RI| CLK2     | 2.43149E-08 |
| EXOSC9_AA| CLK2     | 0.004839147 |
| EZH2_ES  | CLK2     | 3.47016E-11 |
| EZH2_ES  | CLK2     | 3.77278E-05 |
| EZR_AP   | CLK2     | 1.40899E-11 |
| FADS3_RI | CLK2     | 0        |
| FAH_AP   | CLK2     | 2.67344E-09 |
| FAHD1_AT | CLK2     | 0.004403317 |
| FAM101A_AP| CLK2 | 2.6511E-05 |
| FAM102A_AP| CLK2 | 0        |
| FAM102B_AT| CLK2 | 0.000633891 |
| FAM104B_AT| CLK2 | 0.002328853 |
| FAM111A_AP| CLK2 | 4.30785E-14 |
| FAM111A_RI| CLK2 | 2.71889E-09 |
| FAM111A_AA| CLK2 | 1.02951E-12 |
| FAM111A_ES| CLK2 | 0.000359897 |
| FAM115A_AD| CLK2 | 5.42942E-06 |
| FAM115C_AT| CLK2 | 0.003670705 |
| FAM118A_AP| CLK2 | 0.005126221 |
| FAM118A_AT| CLK2 | 0        |
| FAM120AOS_AP| CLK2 | 2.00116E-05 |
| FAM120C_AT| CLK2 | 2.62512E-05 |
| FAM122B_AA| CLK2 | 0.010551506 |
| FAM129C_AA| CLK2 | 5.92302E-10 |
| FAM131A_AP| CLK2 | 1.05652E-12 |
| FAM131A_RI| CLK2 | 0        |
| FAM134B_AP| CLK2 | 7.92562E-11 |
| FAM135A_AA| CLK2 | 1.50562E-06 |
| FAM136A_ES| CLK2 | 1.30564E-18 |
| FAM156B_AP| CLK2 | 1.99901E-05 |
| FAM156B_RI| CLK2 | 2.49641E-13 |
| FAM156B_AD| CLK2 | 0.004139939 |
| FAM160A2_AT| CLK2 | 5.48932E-18 |
| FAM160A2_AD| CLK2 | 8.30208E-08 |
| FAM173A_RI| CLK2 | 1.4642E-16 |
| FAM173A_AA| CLK2 | 7.35439E-12 |
| FAM175A_AT| CLK2 | 1.79407E-07 |
| FAM178A_AT| CLK2 | 0.011333591 |
| FAM192A_AP| CLK2 | 2.36054E-11 |
| FAM192A_AP| CLK2 | 0.002716688 |
| FAM192A_AD| CLK2 | 3.68032E-05 |
| FAM193B_ES| CLK2 | 8.19387E-05 |
| FAM193B_ES| CLK2 | 0.003650869 |
| FAM195B_AA| CLK2 | 0.005384324 |
| FAM195B_RI| CLK2 | 2.51985E-06 |
| FAM204A_ES| CLK2 | 0.000809637 |
| FAM211B_ES| CLK2 | 2.14413E-07 |
| FAM213A_AP| CLK2 | 0        |
| FAM21A_ES | CLK2 | 0.00401271 |
| FAM21A_ES | CLK2 | 6.88587E-05 |
| FAM222B_AP| CLK2 | 0.000160869 |
| Gene        | Site       | Parameter Value     |
|-------------|------------|---------------------|
| FAM3D_AP    | CLK2       | 1.87339E-15         |
| FAM60A_AP   | CLK2       | 0.000298257         |
| FAM63A_AA   | CLK2       | 0.000434513         |
| FAM63A_AA   | CLK2       | 4.53432E-07         |
| FAM64A_AT   | CLK2       | 2.87443E-07         |
| FAM69B_AP   | CLK2       | 4.94072E-06         |
| FAM72A_AP   | CLK2       | 0.014463733         |
| FAM72A_AT   | CLK2       | 0.007710425         |
| FAM73B_AD   | CLK2       | 0                   |
| FAM73B_AA   | CLK2       | 0                   |
| FAM84A_ES   | CLK2       | 0.000249523         |
| FAM86A_ES   | CLK2       | 0.000373861         |
| FAM86C1_AT  | CLK2       | 0                   |
| FAM91A1_AT  | CLK2       | 4.26178E-05         |
| FAM92A1_AP  | CLK2       | 3.07027E-16         |
| FAM92A1_AT  | CLK2       | 9.17629E-10         |
| FAM98B_AT   | CLK2       | 7.29664E-10         |
| FAN1_AT     | CLK2       | 3.87986E-14         |
| FANCa_AT    | CLK2       | 0.000325738         |
| FANCm_AT    | CLK2       | 0.000649529         |
| Fari_AP     | CLK2       | 7.89576E-11         |
| Farp2_AT    | CLK2       | 0.000859792         |
| Fars2_AP    | CLK2       | 2.13846E-07         |
| Fastk Ri    | CLK2       | 0                   |
| Fastk Ri    | CLK2       | 0                   |
| Fastk Ri    | CLK2       | 0                   |
| Fastk Ri    | CLK2       | 0                   |
| Fastk Ri    | CLK2       | 0                   |
| Fastk_ad    | CLK2       | 5.55521E-05         |
| Fastk_es    | CLK2       | 0.000592542         |
| Fastk_ad    | CLK2       | 0                   |
| Fastk AA    | CLK2       | 5.26593E-14         |
| FastkD2_AD  | CLK2       | 0.00306665          |
| fau AA      | CLK2       | 0.002641961         |
| fau Ad      | CLK2       | 0.001456106         |
| Fbln1 AT    | CLK2       | 0                   |
| Fbln5 AP    | CLK2       | 8.24912E-08         |
| Fbxl12_AP   | CLK2       | 1.75656E-12         |
| Fbxl12_AT   | CLK2       | 8.06148E-13         |
| Fbxl12_es   | CLK2       | 1.11083E-06         |
| Fbxl12_es   | CLK2       | 0.000486169         |
| Fbxl12 ri   | CLK2       | 0.00084778          |
| Fbxl8 RI    | CLK2       | 4.18628E-17         |
| Fbxo10 AT   | CLK2       | 1.40456E-05         |
| Fbxo3 AP    | CLK2       | 0                   |
| Fbxo3 RI    | CLK2       | 1.2619E-06          |
| Fbxo38 AD   | CLK2       | 3.95971E-06         |
| Fbxo4 AT    | CLK2       | 2.35764E-06         |
| Fbxo44 ES   | CLK2       | 4.01171E-08         |
| Fbxw7 AP    | CLK2       | 0.007124985         |
| Fcho2 AT    | CLK2       | 2.7612E-06          |
| Fchsd1 AT   | CLK2       | 1.65975E-09         |
| Fchsd1 ES   | CLK2       | 0.000127724         |
| Gene          | Clock | Value          |
|--------------|------|---------------|
| FCHSD2_AT    | CLK2 | 7.00156E-06   |
| FCRL5_AT     | CLK2 | 0.002500646   |
| FDFT1_AP     | CLK2 | 3.69397E-05   |
| FDPS_ES      | CLK2 | 0.004659573   |
| FDPS_ES      | CLK2 | 1.62317E-07   |
| FDPS_AD      | CLK2 | 1.54573E-10   |
| FDPS_ES      | CLK2 | 2.53278E-10   |
| FDPS_ES      | CLK2 | 2.80114E-05   |
| FDPS_ES      | CLK2 | 5.91902E-14   |
| FDPS_AA      | CLK2 | 0.000625278   |
| FDPS_AD      | CLK2 | 0             |
| FEZ2_AP      | CLK2 | 8.69797E-05   |
| FGD3_RI      | CLK2 | 1.42204E-06   |
| FGFR2_AT     | CLK2 | 2.19376E-06   |
| FGFR3_ME     | CLK2 | 0.000171818   |
| FGFR4_AD     | CLK2 | 0.006029976   |
| FGFR4_RI     | CLK2 | 7.27343E-16   |
| FGFR4_RI     | CLK2 | 2.01842E-05   |
| FGFR4_AD     | CLK2 | 6.55357E-05   |
| FHIT_AT      | CLK2 | 0             |
| FHL2_AD      | CLK2 | 1.99107E-05   |
| FHL2_AD      | CLK2 | 0.001061881   |
| FIBP_AD      | CLK2 | 0.001081256   |
| FILIP1L_AT   | CLK2 | 5.93865E-05   |
| FIP1L1_AT    | CLK2 | 0.004750372   |
| FIS1_AP      | CLK2 | 0             |
| FKBP10_AD    | CLK2 | 0             |
| FKBP11_AP    | CLK2 | 1.46677E-12   |
| FKBP11_AT    | CLK2 | 8.74007E-06   |
| FKBP2_AP     | CLK2 | 1.00629E-06   |
| FKBP5_AP     | CLK2 | 0             |
| FLAD1_AT     | CLK2 | 0.003753614   |
| FLAD1_RI     | CLK2 | 0             |
| FLAD1_RI     | CLK2 | 6.24982E-08   |
| FLCN_AT      | CLK2 | 8.05256E-08   |
| FLJ27365_AT  | CLK2 | 0.000191498   |
| FLNA_ES      | CLK2 | 8.351E-10     |
| FLNB_AD      | CLK2 | 0.000278948   |
| FLT1_AT      | CLK2 | 9.79852E-05   |
| FMNL1_ES     | CLK2 | 1.70974E-11   |
| FMNL3_ES     | CLK2 | 0.005275268   |
| FMO5_AT      | CLK2 | 1.67004E-11   |
| FN1_AA       | CLK2 | 0.001445611   |
| FN1_ES       | CLK2 | 0.000137241   |
| FN1_ES       | CLK2 | 1.16299E-06   |
| FNDC3A_AP    | CLK2 | 0.002531967   |
| FNDC3B_AT    | CLK2 | 2.91644E-07   |
| FNTA_AP      | CLK2 | 1.3355E-05    |
| FOLR2_AA     | CLK2 | 2.32684E-14   |
| FOS_AP       | CLK2 | 1.22263E-15   |
| FOS_RI       | CLK2 | 5.60669E-13   |
| FOS_RI       | CLK2 | 3.97179E-14   |
| FOSB_AP      | CLK2 | 3.44196E-09   |
| Gene          | Gene Family | Gene Symbol | Symbol | Description | Value       |
|--------------|-------------|-------------|--------|-------------|-------------|
| FOSB_AT      |             |             | CLK2   |             | 6.87656E-06 |
| FOXJ2_AT     |             |             | CLK2   |             | 1.93237E-16 |
| FOXJ3_AP     |             |             | CLK2   |             | 0.000143766 |
| FOXJ3_AP     |             |             | CLK2   |             | 5.50634E-16 |
| FOXRED1_AD   |             |             | CLK2   |             | 0           |
| FRG1_ES      |             |             | CLK2   |             | 0.000141747 |
| FSD1L_AT     |             |             | CLK2   |             | 0.001294543 |
| FUBP1_AT     |             |             | CLK2   |             | 0           |
| FUK_AT       |             |             | CLK2   |             | 1.58165E-09 |
| FUOM_AA      |             |             | CLK2   |             | 0           |
| FUT3_ES      |             |             | CLK2   |             | 0.000415836 |
| FUT3_AA      |             |             | CLK2   |             | 1.00046E-05 |
| FUT3_AA      |             |             | CLK2   |             | 5.93598E-11 |
| FUT8_AP      |             |             | CLK2   |             | 6.65494E-18 |
| FXYD3_RI     |             |             | CLK2   |             | 7.18182E-05 |
| FXYD3_AA     |             |             | CLK2   |             | 3.60276E-16 |
| FXYD3_RI     |             |             | CLK2   |             | 0.006557264 |
| FYN_AP       |             |             | CLK2   |             | 7.1253E-10  |
| FYN_ES       |             |             | CLK2   |             | 9.40716E-11 |
| G6PD_AP      |             |             | CLK2   |             | 2.75698E-08 |
| GABPA_AP     |             |             | CLK2   |             | 0           |
| GABPA1_AD    |             |             | CLK2   |             | 0.001374403 |
| GABRA2_AT    |             |             | CLK2   |             | 3.07153E-05 |
| GADD45G_RI   |             |             | CLK2   |             | 0.000297218 |
| GALK2_AP     |             |             | CLK2   |             | 2.21198E-05 |
| GALNT10_AT   |             |             | CLK2   |             | 0.000267609 |
| GALNT7_AA    |             |             | CLK2   |             | 0           |
| GALT_AA      |             |             | CLK2   |             | 5.2121E-10  |
| GANC_AT      |             |             | CLK2   |             | 1.10343E-13 |
| GART_AT      |             |             | CLK2   |             | 0           |
| GAS2L1_RI    |             |             | CLK2   |             | 0.001061253 |
| GAS6_AP      |             |             | CLK2   |             | 0.004153087 |
| GAS6_AP      |             |             | CLK2   |             | 1.31699E-09 |
| GATA6_AP     |             |             | CLK2   |             | 0           |
| GBA2_AP      |             |             | CLK2   |             | 0           |
| GBP3_AD      |             |             | CLK2   |             | 0.003174128 |
| GBP3_ES      |             |             | CLK2   |             | 2.54565E-11 |
| GDA_RI       |             |             | CLK2   |             | 0           |
| GDAP2_AT     |             |             | CLK2   |             | 0           |
| GDPD1_AT     |             |             | CLK2   |             | 1.17043E-05 |
| GDPD5_AP     |             |             | CLK2   |             | 2.98608E-05 |
| Gene     | Variant | CLK2   | Value      |
|----------|---------|--------|------------|
| GEMIN4_AP| CLK2    | 2.19672E-11 |
| GEMIN7_ES| CLK2    | 0.003027224  |
| GEMIN7_ES| CLK2    | 1.82445E-05  |
| GEMIN7_AD| CLK2    | 4.4958E-06   |
| GET4_AP  | CLK2    | 0        |
| GFER_AP  | CLK2    | 0.004673759 |
| GFOD1_AT | CLK2    | 0.00202386  |
| GGA1_AP  | CLK2    | 4.7035E-08  |
| GGA1_AT  | CLK2    | 0        |
| GGA2_AA  | CLK2    | 0        |
| GGA3_AA  | CLK2    | 3.23744E-11 |
| GGA3_RI  | CLK2    | 0        |
| GGACT_ES | CLK2    | 9.22412E-07 |
| GGNBP2_AT| CLK2    | 0.01126953  |
| GGPS1_AP | CLK2    | 0        |
| GGT1_AP  | CLK2    | 0        |
| GGT1_AA  | CLK2    | 4.95282E-15 |
| GHDC_AP  | CLK2    | 0.011171675 |
| GHDC_AA  | CLK2    | 6.55399E-07 |
| GID4_AT  | CLK2    | 0.006864595 |
| GINS3_ES | CLK2    | 1.10254E-05 |
| GIT2_AA  | CLK2    | 0.000899386 |
| GJB1_AP  | CLK2    | 8.83251E-07 |
| GJB3_AP  | CLK2    | 0.000626189 |
| GK_ES    | CLK2    | 1.59837E-12 |
| GK5_ES   | CLK2    | 2.44389E-08 |
| GLI4_AT  | CLK2    | 1.14789E-16 |
| GLI4_RI  | CLK2    | 0.000679508 |
| GLIPR1L2_AT| CLK2| 1.82511E-05 |
| GLOD4_ES | CLK2    | 1.04234E-05 |
| GLR_A    | CLK2    | 0        |
| GLS_AP   | CLK2    | 5.72816E-12 |
| GLUL_RI  | CLK2    | 2.17801E-18 |
| GLYR1_RI | CLK2    | 0.00692652  |
| GMFG_RI  | CLK2    | 5.72517E-14 |
| GMNN_AD  | CLK2    | 6.06641E-06 |
| GMPPA_RI | CLK2    | 8.06255E-07 |
| GMPPA_AD | CLK2    | 0.007707448 |
| GMPPA_AD | CLK2    | 0.001061357 |
| GMPPA_RI | CLK2    | 0        |
| GMPR2_RI | CLK2    | 0        |
| GMPR2_AD | CLK2    | 4.62889E-10 |
| GNAI2_AP | CLK2    | 9.58999E-06 |
| GNAO1_AT | CLK2    | 2.27379E-05 |
| GNB2L1_ES| CLK2    | 0        |
| GNB2L1_AD| CLK2    | 2.9525E-07  |
| GNPDA1_AP| CLK2    | 1.87812E-08 |
| GNPDA2_AT| CLK2    | 2.18658E-08 |
| GNPDA2_ES| CLK2    | 0.00019399  |
| GOLGA2_AT| CLK2    | 0.002045975 |
| GOLGA3_AD| CLK2    | 1.86752E-05 |
| GOLGA4_ES| CLK2    | 0.000176164 |
| GOLM1_AP | CLK2    | 9.60155E-06 |
| GORASP1_AP| CLK2| 2.30208E-13 |
| Gene          | Method | Value       |
|--------------|--------|-------------|
| GORASP1_AA   | CLK2   | 0           |
| GOSR1_AD     | CLK2   | 0.009992729 |
| GPATCH2L_AT  | CLK2   | 0.001366885 |
| GPATCH8_AT   | CLK2   | 1.89406E-06 |
| GPD2_AP      | CLK2   | 0.004853641 |
| GPN1_AP      | CLK2   | 0.000730194 |
| GPNMB_AT     | CLK2   | 0.000535556 |
| GPR35_AP     | CLK2   | 0           |
| GPR56_AP     | CLK2   | 0.000657601 |
| GPR56_AP     | CLK2   | 0.001281185 |
| GPR56_ES     | CLK2   | 0.01492487  |
| GPR89A_AA    | CLK2   | 4.15126E-14 |
| GPS1_RI      | CLK2   | 2.0332E-14  |
| GPS1_AA      | CLK2   | 0.000110648 |
| GPS1_AD      | CLK2   | 3.31396E-14 |
| GPS1_ES      | CLK2   | 0.000211083 |
| GRAMD1A_AT   | CLK2   | 0.002965282 |
| GRB7_AP      | CLK2   | 6.06403E-08 |
| GREB1_AT     | CLK2   | 9.61021E-05 |
| GRIPAP1_AT   | CLK2   | 0           |
| GRTPI_AT     | CLK2   | 6.88641E-20 |
| GSDMB_AP     | CLK2   | 0           |
| GSK3A_AP     | CLK2   | 2.68174E-07 |
| GSK3B_ES     | CLK2   | 0.005869366 |
| GSKIP_AD     | CLK2   | 6.39412E-10 |
| GSN_AP       | CLK2   | 0.000354705 |
| GSS_RI       | CLK2   | 0           |
| GSTCD_AT     | CLK2   | 0.009659066 |
| GSTK1_AT     | CLK2   | 1.11483E-05 |
| GSTK1_RI     | CLK2   | 0           |
| GSTO2_AT     | CLK2   | 4.09214E-05 |
| GTF2H1_AP    | CLK2   | 2.09836E-11 |
| GTF2H1_AP    | CLK2   | 1.10276E-06 |
| GTF2H2C_AT   | CLK2   | 0.004358363 |
| GTF2IRD2_AT  | CLK2   | 2.1026E-06  |
| GTF2IRD2B_AT | CLK2   | 3.74436E-10 |
| GTF3C2_AP    | CLK2   | 1.48354E-06 |
| GTPBP3_RI    | CLK2   | 1.80726E-19 |
| GTPBP8_AT    | CLK2   | 0.001368901 |
| GUK1_AP      | CLK2   | 0           |
| GUK1_ES      | CLK2   | 5.98423E-14 |
| GULP1_AT     | CLK2   | 6.57655E-08 |
| H2AFV_ES     | CLK2   | 1.59511E-08 |
| H2AFY_ME     | CLK2   | 2.84262E-05 |
| H3F3A_AP     | CLK2   | 1.50692E-10 |
| HAGHL_RI     | CLK2   | 0           |
| HAGHL_RI     | CLK2   | 7.45359E-15 |
| HARS_AP      | CLK2   | 1.15701E-05 |
| HARS2_RI     | CLK2   | 0           |
| HARS2_AA     | CLK2   | 1.66306E-16 |
| HAS3_AT      | CLK2   | 0.001634996 |
| HAT1_AT      | CLK2   | 1.65586E-08 |
| Gene       | Expression |
|------------|------------|
| HAUS4_ES   | CLK2       | 3.64793E-06 |
| HAUS4_AD   | CLK2       | 1.25444E-09 |
| HAUS4_AD   | CLK2       | 1.40493E-11 |
| HAUS5_RI   | CLK2       | 0           |
| HAUS6_AT   | CLK2       | 5.92467E-17 |
| HBS1L_AP   | CLK2       | 0.000602759 |
| HCCS_AD    | CLK2       | 0.000608652 |
| HCLS1_AA   | CLK2       | 8.97073E-11 |
| HDAC10_RI  | CLK2       | 0           |
| HDAC4_AT   | CLK2       | 8.01654E-17 |
| HDAC6_RI   | CLK2       | 0           |
| HDAC9_AT   | CLK2       | 0           |
| HDHD3_AP   | CLK2       | 0           |
| HDLBP_AP   | CLK2       | 0.000135984 |
| HELZ2_AP   | CLK2       | 0           |
| HEMK1_RI   | CLK2       | 0           |
| HENMT1_ES  | CLK2       | 0.000109783 |
| HERC4_AT   | CLK2       | 8.3491E-16  |
| HES4_RI    | CLK2       | 0.001084643 |
| HES6_RI    | CLK2       | 9.9163E-07  |
| HES6_RI    | CLK2       | 0.000615799 |
| HEXB_AP    | CLK2       | 8.72781E-16 |
| HGSNAT_AT  | CLK2       | 0.01510514  |
| HIGD1A_AP  | CLK2       | 0.014288099 |
| HINFP_AA   | CLK2       | 9.82718E-16 |
| HIST1H2BD_AT| CLK2     | 2.57809E-07 |
| HKR1_AP    | CLK2       | 3.81339E-14 |
| HM13_AD    | CLK2       | 0.007374271 |
| HMBS_AD    | CLK2       | 9.11351E-07 |
| HMBS_RI    | CLK2       | 0           |
| HMBS_AD    | CLK2       | 1.23354E-06 |
| HMG20B_AA  | CLK2       | 0           |
| HMGAI_AP   | CLK2       | 5.33863E-05 |
| HMGAI_AD   | CLK2       | 3.10467E-05 |
| HMGBI_RI   | CLK2       | 0.000293395 |
| HMGBI_RI   | CLK2       | 5.11741E-13 |
| HMGN1_AP   | CLK2       | 6.47273E-14 |
| HMGN3_AD   | CLK2       | 0.000826769 |
| HMHAI_AP   | CLK2       | 0.000991966 |
| HNF1A_AT   | CLK2       | 2.11873E-06 |
| HNF4A_AP   | CLK2       | 8.07142E-07 |
| HNF4A_AD   | CLK2       | 3.22927E-10 |
| HNMT_AT    | CLK2       | 6.02423E-10 |
| HNRNPA1_ES | CLK2       | 1.19405E-14 |
| HNRNPA1_ES | CLK2       | 1.71775E-08 |
| HNRNPA1_RI | CLK2       | 1.39522E-15 |
| HNRNPA1_ES | CLK2       | 8.96422E-09 |
| HNRNPA2B1_RI| CLK2      | 2.66423E-08 |
| HNRNPA2B1_AA| CLK2      | 0           |
| HNRNPA2B1_ES| CLK2      | 2.59977E-05 |
| HNRNPA3_AD | CLK2       | 0.004510488 |
| HNRNPAD_AT | CLK2       | 6.81133E-08 |
| HNRNPD_ES  | CLK2       | 0.008929456 |
| Gene Name       | Symbol | CL2  | Value         |
|----------------|--------|------|---------------|
| HNRNPDL_ES     | CLK2   | 1.85761E-09 |
| HNRNPH1_AD     | CLK2   | 0.000179953  |
| HNRNPK_AP      | CLK2   | 0.012680566  |
| HNRNPK_AA      | CLK2   | 0.014790397  |
| HNRNPLL_AT     | CLK2   | 0.001421212  |
| HNRNPU_AD      | CLK2   | 0.003334087  |
| HNRNPUL1_AA    | CLK2   | 5.82811E-05  |
| HOOK2_AP       | CLK2   | 0.00363463   |
| HOOK2_ES       | CLK2   | 0.004869541  |
| HOOK2_AD       | CLK2   | 0.000363463  |
| HOXA10_AP      | CLK2   | 4.04047E-05  |
| HOXB3_AT       | CLK2   | 2.58921E-15  |
| HOXB6_AA       | CLK2   | 5.75784E-09  |
| HOXB9_AD       | CLK2   | 2.88141E-06  |
| HP1BP3_AP      | CLK2   | 6.88349E-11  |
| HP1BP3_AT      | CLK2   | 2.63738E-16  |
| HPS4_RI        | CLK2   | 3.01111E-10  |
| HPS4_RI        | CLK2   | 0           |
| HPS4_AA        | CLK2   | 3.8258E-07   |
| HPS4_AD        | CLK2   | 2.17727E-06  |
| HPS4_AA        | CLK2   | 0.000392904  |
| HPS4_ES        | CLK2   | 0.000771303  |
| HRAS_ES        | CLK2   | 6.94264E-09  |
| HS2ST1_AT      | CLK2   | 7.68208E-05  |
| HSD17B7_AA     | CLK2   | 2.72257E-05  |
| HSD3B7_AA      | CLK2   | 1.9242E-09   |
| HSF4_RI        | CLK2   | 1.05328E-06  |
| HSH2D_RI       | CLK2   | 1.91596E-13  |
| HSH2D_RI       | CLK2   | 0           |
| HSP90AA1_AT    | CLK2   | 2.38365E-05  |
| HSPB11_AT      | CLK2   | 5.0828E-08   |
| HTRA3_AT       | CLK2   | 0.001189356  |
| HYI_AT         | CLK2   | 6.68573E-11  |
| HYKK_AT        | CLK2   | 1.07056E-05  |
| HYKK_ES        | CLK2   | 0.001354709  |
| IAH1_AP        | CLK2   | 1.39439E-05  |
| IAH1_AT        | CLK2   | 4.22772E-06  |
| IAH1_ES        | CLK2   | 0.000250386  |
| IARS_AD        | CLK2   | 0.001265412  |
| ICA1_AP        | CLK2   | 0.004213233  |
| ICAM3_RI       | CLK2   | 6.81524E-08  |
| IDE_ES         | CLK2   | 7.12257E-05  |
| IDH3G_RI       | CLK2   | 9.11669E-15  |
| IDS_AP         | CLK2   | 0           |
| IDS_AT         | CLK2   | 0.00051567   |
| IDUA_AP        | CLK2   | 0           |
| IDUA_RI        | CLK2   | 0.003289854  |
| IDUA_RI        | CLK2   | 2.66869E-09  |
| IFI27L1_AD     | CLK2   | 7.22829E-08  |
| IFI27L1_ES     | CLK2   | 0.002839756  |
| IFI35_AD       | CLK2   | 4.9452E-05   |
| IFI44_AT       | CLK2   | 1.30064E-12  |
| Gene         | Placeholder | Value          |
|--------------|-------------|----------------|
| IFI6_AD      | CLK2        | 0.003711832    |
| IFNAR2_ES    | CLK2        | 0.004323473    |
| IFNL1_ES     | CLK2        | 3.08516E-06    |
| IFRD2_RI     | CLK2        | 0              |
| IFT172_AT    | CLK2        | 1.93309E-07    |
| IFT172_ES    | CLK2        | 3.21236E-11    |
| IFT20_AT     | CLK2        | 0              |
| IFT81_AD     | CLK2        | 7.37593E-05    |
| IFT88_ES     | CLK2        | 2.68208E-06    |
| IGF2_AP      | CLK2        | 2.11903E-05    |
| IGFLR1_ES    | CLK2        | 0.000119876    |
| IGFLR1_ES    | CLK2        | 0.00419334     |
| IGSF9_AA     | CLK2        | 0.00317876     |
| IKBIP_AT     | CLK2        | 9.57699E-10    |
| IKBKB_AT     | CLK2        | 0.007968291    |
| IL11RA_AP    | CLK2        | 0              |
| IL11RA_AT    | CLK2        | 2.32392E-16    |
| IL13RA1_AP   | CLK2        | 9.5436E-15     |
| IL15_AP      | CLK2        | 1.65747E-10    |
| IL15_ES      | CLK2        | 0.003664035    |
| IL17RC_AD    | CLK2        | 0              |
| IL17RC_AA    | CLK2        | 5.03443E-05    |
| IL17RE_AA    | CLK2        | 1.58332E-12    |
| IL17RE_AA    | CLK2        | 3.63526E-16    |
| IL18_ES      | CLK2        | 2.67868E-05    |
| IL18BP_RI    | CLK2        | 1.39089E-15    |
| IL18BP_RI    | CLK2        | 0.000189796    |
| IL32_RI      | CLK2        | 0.016208115    |
| IL32_AD      | CLK2        | 0.000548345    |
| IL4R_ES      | CLK2        | 3.12583E-12    |
| ILF3_AT      | CLK2        | 5.67673E-06    |
| ILF3_RI      | CLK2        | 0.000260206    |
| IMMP2L_AP    | CLK2        | 1.88703E-14    |
| IMPA1_ES     | CLK2        | 0              |
| IMPDH1_AP    | CLK2        | 0.000389116    |
| INADL_AT     | CLK2        | 3.94517E-07    |
| INADL_AT     | CLK2        | 2.24756E-05    |
| INADL_ES     | CLK2        | 0.000469352    |
| ING1_AP      | CLK2        | 0.000698562    |
| ING2_AP      | CLK2        | 1.94655E-07    |
| ING4_ES      | CLK2        | 0.000333775    |
| INO80B_AT    | CLK2        | 2.18234E-08    |
| INO80C_AT    | CLK2        | 6.84943E-06    |
| INO80E_AT    | CLK2        | 4.67103E-10    |
| INO80E_ES    | CLK2        | 5.20094E-13    |
| INO80E_ES    | CLK2        | 2.01342E-14    |
| INO80E_AA    | CLK2        | 9.15578E-10    |
| INPP4A_AT    | CLK2        | 0.000174037    |
| INPP4A_AD    | CLK2        | 0.002819148    |
| INPP4B_AT    | CLK2        | 1.38598E-05    |
| INPP5B_AT    | CLK2        | 2.37384E-09    |
| INPP5K_AT    | CLK2        | 0.005018489    |
| INPL1L1_AP   | CLK2        | 4.22278E-18    |
| Gene Symbol | Step 2 | Value |
|-------------|--------|-------|
| INTS12_AP   | CLK2   | 0.014147457 |
| INTS3_RI    | CLK2   | 0     |
| INTS6_AT    | CLK2   | 0.000528542 |
| INTS8_AA    | CLK2   | 0.000853823 |
| IP6K2_RI    | CLK2   | 1.26719E-08 |
| IP6K2_RI    | CLK2   | 0.000144593 |
| IP6K2_RI    | CLK2   | 2.95494E-09 |
| IP6K2_RI    | CLK2   | 0     |
| IP6K2_RI    | CLK2   | 0     |
| IP6K2_AA    | CLK2   | 2.08852E-09 |
| IP6K2_AD    | CLK2   | 4.39847E-12 |
| IP6K2_AD    | CLK2   | 0     |
| IP6K2_AD    | CLK2   | 2.37966E-09 |
| IPO11_AT    | CLK2   | 0.003338217 |
| IPO13_AP    | CLK2   | 0     |
| IQCG_AT     | CLK2   | 0.006030987 |
| IQCK_AT     | CLK2   | 1.59196E-06 |
| IREB2_RI    | CLK2   | 0.000149805 |
| IRF3_AA     | CLK2   | 1.39721E-05 |
| IRF3_AD     | CLK2   | 0     |
| IRF3_RI     | CLK2   | 1.29275E-05 |
| IRF3_RI     | CLK2   | 0     |
| IRF7_AP     | CLK2   | 0.002591995 |
| IRF7_RI     | CLK2   | 0     |
| IRF7_RI     | CLK2   | 0.014082498 |
| IRF8_AP     | CLK2   | 0.000271951 |
| ISCA1_AT    | CLK2   | 7.06354E-13 |
| ISCU_RI     | CLK2   | 2.27575E-07 |
| ISCU_ES     | CLK2   | 3.18569E-17 |
| ISG20_AT    | CLK2   | 7.26285E-08 |
| ISG20L2_RI  | CLK2   | 0.000153244 |
| ISO2_AA     | CLK2   | 0.007539779 |
| IST1_AP     | CLK2   | 0.016273939 |
| IST1_ES     | CLK2   | 4.35762E-07 |
| IST1_ES     | CLK2   | 0     |
| IST1_ES     | CLK2   | 0.00269973 |
| ITFG2_AD    | CLK2   | 1.21781E-10 |
| ITGA6_ES    | CLK2   | 9.07955E-06 |
| ITGB1BP1_AP | CLK2   | 0.000565325 |
| ITGB3_AT    | CLK2   | 0.008635174 |
| ITGB3BP_ES  | CLK2   | 0.01707313 |
| ITGBL1_AT   | CLK2   | 0.010187081 |
| ITIH5_AT    | CLK2   | 7.42812E-07 |
| ITPKB_AT    | CLK2   | 0.008813592 |
| ITSN1_ES    | CLK2   | 0.000361903 |
| IVNS1ABP_ES | CLK2   | 4.44574E-05 |
| IYD_AT      | CLK2   | 1.98668E-13 |
| JAM2_AT     | CLK2   | 4.90517E-07 |
| JKAMP_AD    | CLK2   | 2.06129E-07 |
| JMJD1C_AP   | CLK2   | 0.000172296 |
| JMJD7_RI    | CLK2   | 0     |
| JTB_RI      | CLK2   | 0     |
| KALRN_AP    | CLK2   | 4.67599E-06 |
| Gene      | Method | Value       |
|-----------|--------|-------------|
| KANSL2_AD | CLK2   | 0.002201229 |
| KANSL2_AD | CLK2   | 0.005331846 |
| KANSL2_AD | CLK2   | 2.33856E-07 |
| KAT5_RI  | CLK2   | 0.003163674 |
| KAZN_AT  | CLK2   | 1.56414E-13 |
| KBTBD3_AT | CLK2 | 0.000130229 |
| KBTBD3_ES | CLK2  | 0.000884548 |
| KCNC4_AA | CLK2   | 0.002054692 |
| KCND1_AP | CLK2   | 2.5609E-07  |
| KCNE3_AP | CLK2   | 7.31916E-13 |
| KCNH2_AT | CLK2   | 2.0836E-05  |
| KCNMA1_AT | CLK2 | 2.96183E-06 |
| KCNMB3_AP | CLK2  | 5.43717E-10 |
| KCTD1_AP | CLK2   | 7.41889E-05 |
| KCTD10_AP | CLK2  | 0            |
| KCTD20_ES | CLK2  | 0.001125104 |
| KDM2B_AT | CLK2   | 1.97103E-05 |
| KDM4B_ES | CLK2   | 0.002307539 |
| KDM6B_RI | CLK2   | 2.2779E-06  |
| HK_ME    | CLK2   | 3.04094E-07 |
| KIAA0040_AP | CLK2 | 4.99884E-05 |
| KIAA0101_ES | CLK2 | 0.000323661 |
| KIAA0141_RI | CLK2 | 1.29067E-07 |
| KIAA0226L_AP | CLK2 | 0.006197031 |
| KIAA0319L_AP | CLK2 | 5.65333E-05 |
| KIAA0907_RI | CLK2 | 0            |
| KIAA0930_AP | CLK2  | 0.007787524 |
| KIAA1257_AT | CLK2 | 0.000109026 |
| KIAA1328_AT | CLK2 | 1.28788E-09 |
| KIF12_ES | CLK2   | 5.30179E-10 |
| KIF12_ES | CLK2   | 0            |
| KIF13A_AT | CLK2   | 0.002767034 |
| KIF13A_AT | CLK2   | 6.38626E-07 |
| KIF13A_ES | CLK2   | 0.005732346 |
| KIF16B_AT | CLK2   | 6.72132E-09 |
| KIF20B_AT | CLK2   | 0.004581586 |
| KIF9_AT  | CLK2   | 0.009683593 |
| KIF9_AD  | CLK2   | 0.000612255 |
| KIN_AT   | CLK2   | 0.011921569 |
| KLC1_RI  | CLK2   | 1.06011E-12 |
| KLC2_AP  | CLK2   | 0            |
| KLC2_RI  | CLK2   | 0            |
| KLF10_AP | CLK2   | 0.002743215 |
| KLF3_AT  | CLK2   | 1.20534E-08 |
| KLHDC2_RI | CLK2  | 0            |
| KLHDC4_AT | CLK2  | 1.93686E-08 |
| KLHDC4_AT | CLK2  | 4.59316E-08 |
| KLHL12_AP | CLK2   | 1.71969E-08 |
| KLHL21_RI | CLK2  | 2.7607E-06  |
| KLHL24_AT | CLK2   | 3.69051E-06 |
| KLHL26_AT | CLK2   | 2.74305E-07 |
| KLHL42_ES | CLK2   | 1.97834E-07 |
| KLHL5_AT | CLK2   | 3.23213E-07 |
| Gene     | Version | Value    |
|----------|---------|----------|
| KLK6_ES  | CLK2    | 4.84744E-12 |
| KPNA1_ES | CLK2    | 6.6478E-14  |
| KRBOX4_AT| CLK2    | 8.30535E-09 |
| KRTCAP3_AP| CLK2 | 0.000745053 |
| KRTCAP3_AT| CLK2 | 7.15972E-07  |
| KTN1_ES  | CLK2    | 9.02352E-13 |
| KXD1_AP  | CLK2    | 9.43955E-16 |
| KXD1_AP  | CLK2    | 0         |
| L3HYPDH_AP| CLK2 | 0.005862649 |
| L3HYPDH_AT| CLK2 | 0.002015262 |
| L3MBTL2_AT| CLK2 | 0.023746294 |
| LACTB_AT | CLK2    | 0.00033917  |
| LAD1_AD  | CLK2    | 5.54326E-06 |
| LAMB1_AP | CLK2    | 0         |
| LAMC2_AT | CLK2    | 4.39096E-05 |
| LAMP2_AT | CLK2    | 3.95956E-14 |
| LARP1B_AT| CLK2    | 0.002100518 |
| LARP1B_RI| CLK2    | 0.001711052 |
| LARP6_AT | CLK2    | 0.000683238 |
| LASIL_ES | CLK2    | 0.004898709 |
| LAT2_AT  | CLK2    | 1.13336E-11 |
| LBX2_AP  | CLK2    | 1.32439E-09 |
| LCLAT1_AT| CLK2    | 0.000404378 |
| LCORL_AT | CLK2    | 2.01757E-10 |
| LDB1_AP  | CLK2    | 2.43262E-09 |
| LEF1_AP  | CLK2    | 3.56734E-07 |
| LEMD2_AP | CLK2    | 0.000304196 |
| LENG8_RI | CLK2    | 0         |
| LEPR_AT  | CLK2    | 4.22324E-09 |
| LETMD1_ES| CLK2   | 3.96657E-12 |
| LETMD1_AD| CLK2    | 0         |
| LETMD1_ES| CLK2   | 8.7647E-13  |
| LETMD1_ES| CLK2   | 8.01922E-11 |
| LETMD1_ES| CLK2   | 0.005264913 |
| LETMD1_ES| CLK2   | 0.000315321 |
| LETMD1_AD| CLK2    | 7.74663E-07 |
| LETMD1_AD| CLK2    | 2.82591E-06 |
| LGALS3BP_ES| CLK2 | 8.86465E-12 |
| LGALS3BP_ES| CLK2 | 0.00154029  |
| LGALS3BP_ES| CLK2 | 3.79149E-07 |
| LGALS4_ES| CLK2    | 0.000182658 |
| LGALS4_ES| CLK2    | 0.008422646 |
| LGALS8_AT| CLK2    | 1.90389E-07 |
| LGALS9C_ES| CLK2 | 1.68475E-12 |
| LGMN_ES  | CLK2    | 4.48228E-06 |
| LHPP_AT  | CLK2    | 0.007657828 |
| LIG1_AD  | CLK2    | 4.57396E-19 |
| LIG1_ES  | CLK2    | 0.028685063 |
| LILRA5_AT| CLK2    | 0.011718729 |
| LIMA1_AP | CLK2    | 0.010355949 |
| LIMA1_AP | CLK2    | 9.63984E-15 |
| LIMD1_AT | CLK2    | 0.03353923  |
| LIMK2_AP | CLK2    | 3.4522E-10  |
| Gene          | CL2   | Value          |
|--------------|------|---------------|
| LYRM1_AP     | CLK2 | 0.003310481   |
| LYRM1_AT     | CLK2 | 2.14223E-09   |
| LZTS2_AP     | CLK2 | 1.27903E-16   |
| MAFF_AP      | CLK2 | 5.59171E-10   |
| MAFK_AP      | CLK2 | 1.32485E-14   |
| MAGI1_ES     | CLK2 | 0.001458197   |
| MAGOHB_ES    | CLK2 | 6.89756E-11   |
| MAGT1_AT     | CLK2 | 2.10172E-09   |
| MAN1C1_AP    | CLK2 | 0.011205838   |
| MAN2A2_AA    | CLK2 | 1.4631E-11    |
| MAN2C1_AA    | CLK2 | 0            |
| MAP1LC3A_AP  | CLK2 | 0            |
| MAP2K5_AP    | CLK2 | 7.53141E-11   |
| MAP2K7_AA    | CLK2 | 0.002333993   |
| MAP3K13_AT   | CLK2 | 1.12769E-06   |
| MAP3K7_ES    | CLK2 | 0.000183049   |
| MAP3K8_AP    | CLK2 | 6.92592E-08   |
| MAP4_AP      | CLK2 | 0.013554392   |
| MAP4_AA      | CLK2 | 0.004361866   |
| MAP4_ES      | CLK2 | 0.016392344   |
| MAP6_AT      | CLK2 | 0.003322527   |
| MAP7D3_AT    | CLK2 | 7.08306E-11   |
| MAP9K_ES     | CLK2 | 6.71329E-13   |
| MAPKAPK5_AD  | CLK2 | 0.005604313   |
| MAPRE3_AD    | CLK2 | 2.78305E-06   |
| MARK2_AP     | CLK2 | 0.000223855   |
| MARS_RI      | CLK2 | 0            |
| MARVELD3_AT  | CLK2 | 0.000409219   |
| MAST1_AT     | CLK2 | 1.67296E-11   |
| MAT2A_AT     | CLK2 | 0            |
| MATR3_AP     | CLK2 | 2.36492E-08   |
| MAVS_ES      | CLK2 | 0.004844912   |
| MAX_RI       | CLK2 | 1.48055E-07   |
| MAX_RI       | CLK2 | 1.36308E-10   |
| MAX_RI       | CLK2 | 2.5268E-14    |
| MAZ_AP       | CLK2 | 1.10206E-11   |
| MB2ID1_AT    | CLK2 | 5.14949E-05   |
| MBD1_RI      | CLK2 | 8.0518E-05    |
| MBD1_AA      | CLK2 | 0.004994603   |
| MBD1_AA      | CLK2 | 1.08307E-05   |
| MBD3_AP      | CLK2 | 3.85898E-09   |
| MBD3_RI      | CLK2 | 0.000876135   |
| MBD4_AT      | CLK2 | 0            |
| MBLC2_AT     | CLK2 | 4.66226E-06   |
| MBNL1_ES     | CLK2 | 0.000314003   |
| MBNL1_ES     | CLK2 | 0.000172704   |
| MBNL1_ES     | CLK2 | 0.000534103   |
| MBNL2_ES     | CLK2 | 0.000162487   |
| MBNL2_ES     | CLK2 | 5.71793E-10   |
| MBNL2_ES     | CLK2 | 0.000119484   |
| MBOAT7_AT    | CLK2 | 9.30876E-14   |
| MBTD1_AT     | CLK2 | 0.003997444   |
| MBTPS2_AT    | CLK2 | 0.000206182   |
| Gene  | Stage | Value |
|-------|-------|-------|
| MCCC1_ES | CLK2 | 1.29299E-18 |
| MCF2L_AP | CLK2 | 5.86033E-06 |
| MCF2L_RI | CLK2 | 1.1039E-12 |
| MCM7_RI | CLK2 | 0.000 |
| MCM9_AT | CLK2 | 2.28729E-10 |
| MCMDC2_AT | CLK2 | 1.16411E-06 |
| MCOLN3_AT | CLK2 | 4.89214E-05 |
| MCPPH1_AT | CLK2 | 0.000650426 |
| MCRS1_ES | CLK2 | 0.012560904 |
| MDFIC_AT | CLK2 | 5.6536E-06 |
| MDK_AP | CLK2 | 0.000110771 |
| MDK_AD | CLK2 | 0.007633316 |
| ME3_AP | CLK2 | 0.010232436 |
| ME3_ES | CLK2 | 0.000 |
| MECR_AA | CLK2 | 2.83453E-09 |
| MED11_AA | CLK2 | 1.02301E-14 |
| MED15_RI | CLK2 | 9.26349E-12 |
| MED17_AT | CLK2 | 1.09059E-08 |
| MED20_AT | CLK2 | 0.000265419 |
| MED24_AA | CLK2 | 0.001423755 |
| MED4_AD | CLK2 | 1.0676E-06 |
| MED8_RI | CLK2 | 0.007947031 |
| MED8_AA | CLK2 | 1.07412E-09 |
| MEF2BNB_ES | CLK2 | 0.000 |
| MEIS1_RI | CLK2 | 4.46895E-07 |
| MEIS3_AT | CLK2 | 0.000514343 |
| MELK_ES | CLK2 | 2.061E-06 |
| MEPCE_AP | CLK2 | 0.001673604 |
| MESDC2_AT | CLK2 | 0.000 |
| METRNL_AP | CLK2 | 0.000 |
| METTL15_AA | CLK2 | 0.002871781 |
| METTL17_RI | CLK2 | 1.53043E-06 |
| METTL17_RI | CLK2 | 9.73133E-11 |
| METTL17_RI | CLK2 | 0.000 |
| METTL17_RI | CLK2 | 0.000 |
| METTL17_AA | CLK2 | 0.000 |
| METTL21A_AT | CLK2 | 0.001191565 |
| METTL21A_AT | CLK2 | 2.98505E-06 |
| METTL3_RI | CLK2 | 0.004633778 |
| METTL3_RI | CLK2 | 0.007090493 |
| METTL5_AT | CLK2 | 0.000191273 |
| MFF_ES | CLK2 | 0.0001341166 |
| MFF_ES | CLK2 | 0.001518322 |
| MFF_ES | CLK2 | 0.006201929 |
| MFI2_AT | CLK2 | 0.005403879 |
| MFSD10_AP | CLK2 | 0.000 |
| MFSD10_RI | CLK2 | 5.0026E-05 |
| MFSD11_ES | CLK2 | 2.68954E-17 |
| MFSD5_AP | CLK2 | 0.004109816 |
| MGAT1_AP | CLK2 | 3.15932E-06 |
| MGAT1_AP | CLK2 | 0.000152369 |
| Gene          | Gene Symbol | Phase | Expression Value |
|---------------|-------------|-------|------------------|
| MGAT4A_AA     | CLK2        |       | 2.41475E-05      |
| MGAT4B_AP     | CLK2        |       | 0                |
| MGEA5_AT      | CLK2        |       | 1.9757E-05       |
| MGLL_AD       | CLK2        |       | 2.77303E-07      |
| MGRN1_RA      | CLK2        |       | 0                |
| MGRN1_AA      | CLK2        |       | 0                |
| MGST1_AP      | CLK2        |       | 1.58648E-07      |
| MIA3_AP       | CLK2        |       | 7.76511E-09      |
| MIB2_AP       | CLK2        |       | 0.014254032      |
| MIB2_RA       | CLK2        |       | 7.03358E-15      |
| MICAL3_AT     | CLK2        |       | 0.0001110397     |
| MICALL2_AP    | CLK2        |       | 8.03552E-12      |
| MID1_AP       | CLK2        |       | 0.000368268      |
| MIEF1_ES      | CLK2        |       | 6.11597E-08      |
| MIER1_ES      | CLK2        |       | 2.00097E-16      |
| MINA_AD       | CLK2        |       | 3.61247E-05      |
| MINK1_AA      | CLK2        |       | 0.01420147       |
| MIPOL1_AT     | CLK2        |       | 3.07788E-14      |
| MIS12_AP      | CLK2        |       | 0.001766803      |
| MITD1_AT      | CLK2        |       | 0.004048989      |
| MK167_ES      | CLK2        |       | 4.27062E-05      |
| MKL1_AP       | CLK2        |       | 0.012008424      |
| MKL2_AT       | CLK2        |       | 2.35846E-07      |
| MKNK1_AT      | CLK2        |       | 0.000569049      |
| MKN1_AT       | CLK2        |       | 0.015024419      |
| MLH1_AT       | CLK2        |       | 0.01199788       |
| MLK4_AT       | CLK2        |       | 0.0119064        |
| MLLT10_AT     | CLK2        |       | 4.63563E-08      |
| MLLT3_AP      | CLK2        |       | 0.00032486       |
| MLLT3_ES      | CLK2        |       | 7.91753E-10      |
| MLLT4_AD      | CLK2        |       | 0.000127466      |
| MLPH_AP       | CLK2        |       | 1.18962E-05      |
| MLPH_ES       | CLK2        |       | 0.001030299      |
| MLST8_AP      | CLK2        |       | 3.12195E-06      |
| MLTK_AT       | CLK2        |       | 0.001030299      |
| MLXIP_AP      | CLK2        |       | 1.06594E-15      |
| MLXIPL_RI     | CLK2        |       | 1.15669E-14      |
| MMADHC_AP     | CLK2        |       | 0.00422329       |
| MMP23B_RI     | CLK2        |       | 0.002698116      |
| MMP28_AT      | CLK2        |       | 0.002698116      |
| MOB3C_AP      | CLK2        |       | 0.000556872      |
| MOGAT3_RI     | CLK2        |       | 0.005849921      |
| MON2_AP       | CLK2        |       | 0.000343155      |
| MOV10_ES      | CLK2        |       | 1.09404E-07      |
| MOXDI1_AT     | CLK2        |       | 5.01208E-06      |
| MPDU1_AA      | CLK2        |       | 6.30172E-10      |
| MPHOSPH10_AT  | CLK2        |       | 3.73448E-15      |
| MPI_AT        | CLK2        |       | 1.18949E-10      |
| Component     | Clock | Value          |
|---------------|-------|----------------|
| MPI_AT        | CLK2  | 0              |
| MPI_AA        | CLK2  | 4.43556E-11    |
| MPPE1_ES      | CLK2  | 1.0279E-09     |
| MPRP_ES       | CLK2  | 0.000517706    |
| MPV17_AP      | CLK2  | 0.001640381    |
| MPV17_AT      | CLK2  | 1.02851E-15    |
| MPV17_AA      | CLK2  | 0              |
| MROH1_AT      | CLK2  | 0.01373054     |
| MROH1_RI      | CLK2  | 0              |
| MRPL10_AP     | CLK2  | 0.00054629     |
| MRPL2_AT      | CLK2  | 8.92694E-06    |
| MRPL2_ES      | CLK2  | 0.000507377    |
| MRPL21_RI     | CLK2  | 0              |
| MRPL33_ES     | CLK2  | 3.9068E-07     |
| MRPL34_AP     | CLK2  | 0.000321617    |
| MRPL35_AA     | CLK2  | 0.00061767     |
| MRPL4_RI      | CLK2  | 0              |
| MRPL43_AT     | CLK2  | 0.000208224    |
| MRPL43_AT     | CLK2  | 1.43538E-05    |
| MRPL47_ES     | CLK2  | 0.003142774    |
| MRPL52_ES     | CLK2  | 0.013679507    |
| MRPL52_RI     | CLK2  | 6.37258E-05    |
| MRPL52_ES     | CLK2  | 0.001732698    |
| MRPL52_RI     | CLK2  | 2.42844E-05    |
| MRPL55_AP     | CLK2  | 4.28439E-08    |
| MRPL55_RI     | CLK2  | 3.76886E-12    |
| MRPL55_RI     | CLK2  | 0.003050396    |
| MRPL55_RI     | CLK2  | 3.88579E-13    |
| MRPL55_RI     | CLK2  | 6.67861E-15    |
| MRPL55_AD     | CLK2  | 5.57345E-06    |
| MRPL55_AA     | CLK2  | 1.30946E-12    |
| MRPL55_ES     | CLK2  | 0.000498701    |
| MRPL55_ES     | CLK2  | 4.70003E-13    |
| MRPL55_ES     | CLK2  | 1.81247E-05    |
| MRPL55_ES     | CLK2  | 0.000436727    |
| MRPS12_AD     | CLK2  | 0.006330204    |
| MRPS16_AT     | CLK2  | 0.003048455    |
| MRPS21_AP     | CLK2  | 4.623E-06      |
| MRPS33_AA     | CLK2  | 9.16642E-05    |
| MRPS7_RI      | CLK2  | 0              |
| MRRF_AP       | CLK2  | 1.41473E-11    |
| MRRF_ES       | CLK2  | 0              |
| MRS2_AT       | CLK2  | 0.000396104    |
| MRS2_AA       | CLK2  | 1.01078E-05    |
| MS4A6A_AD     | CLK2  | 0.00430034     |
| MSANTD2_AP    | CLK2  | 4.02847E-06    |
| MSL3_AP       | CLK2  | 0.000926173    |
| MSL3_AT       | CLK2  | 0              |
| MSR1_AT       | CLK2  | 8.3701E-06     |
| MSTO1_AT      | CLK2  | 3.51687E-12    |
| MTA1_ES       | CLK2  | 0.003341973    |
| MTA2_AP       | CLK2  | 0.001643946    |
| MTA3_AT       | CLK2  | 3.00588E-08    |
| Gene         | Clock | Value        |
|--------------|-------|--------------|
| MTAP_AD      | CLK2  | 0.001184897  |
| MTC61_AD     | CLK2  | 6.41497E-06  |
| MTERFD1_AP   | CLK2  | 1.38058E-11  |
| MTERFD3_RI   | CLK2  | 2.96354E-10  |
| MTERFD3_RI   | CLK2  | 0            |
| MTF2_ES      | CLK2  | 0.002386206  |
| MTFR1L_AP    | CLK2  | 2.7978E-13   |
| MTFR1L_AP    | CLK2  | 9.49429E-10  |
| MTFR1L_AA    | CLK2  | 0.010968292  |
| MTFR1L_AA    | CLK2  | 1.74386E-15  |
| MTFR1L_ES    | CLK2  | 5.31092E-06  |
| MTHFD1L_AT   | CLK2  | 0.00534974   |
| MTHFD2L_AT   | CLK2  | 0.000763023  |
| MTHL5_AT     | CLK2  | 2.53776E-06  |
| MTHMR1_ES    | CLK2  | 5.50366E-06  |
| MTHMR10_RI   | CLK2  | 0.003668947  |
| MTHMR11_AP   | CLK2  | 0.002262013  |
| MTHMR4_AT    | CLK2  | 0.001262847  |
| MTHMR7_AT    | CLK2  | 1.05479E-05  |
| MUC20_AP     | CLK2  | 0            |
| MUM1_AT      | CLK2  | 1.00383E-10  |
| MVK_ES       | CLK2  | 1.78149E-05  |
| MXE_D1_A     | CLK2  | 0            |
| MXE_A7_AT    | CLK2  | 0.014611151  |
| MXYL_AT      | CLK2  | 0.000116494  |
| MYEOV_RI     | CLK2  | 0.005161657  |
| MYH14_AP     | CLK2  | 4.18139E-08  |
| MYL12A_ES    | CLK2  | 0.009904654  |
| MYL5_AP      | CLK2  | 5.21533E-12  |
| MYL5_AD      | CLK2  | 6.94702E-18  |
| MYL5_AD      | CLK2  | 0.000236679  |
| MYL5_ES      | CLK2  | 4.60778E-12  |
| MYL6_ES      | CLK2  | 0.000197294  |
| MYL6_RI      | CLK2  | 3.28708E-17  |
| MYL6_RI      | CLK2  | 1.13556E-16  |
| MYLK_RI      | CLK2  | 2.85126E-05  |
| MYNN_ES      | CLK2  | 0.002672403  |
| MYO19_ES     | CLK2  | 0.011192406  |
| MYO1G_AT     | CLK2  | 3.39503E-05  |
| MY05B_AP     | CLK2  | 0.000122567  |
| MY05C_AT     | CLK2  | 3.99014E-05  |
| MYO9A_AT     | CLK2  | 4.53283E-05  |
| MYO9B_ES     | CLK2  | 0.000533828  |
| MZF1_AP      | CLK2  | 0            |
| MZF1_AT      | CLK2  | 7.53475E-07  |
| MZF1_AD      | CLK2  | 3.22732E-09  |
| MZT2B_ES     | CLK2  | 7.14875E-09  |
| NAA15_AT     | CLK2  | 2.89688E-05  |
| NAA35_AP     | CLK2  | 0.003485754  |
| NAA35_AT     | CLK2  | 1.64167E-05  |
| NAA38_RI     | CLK2  | 0            |
| NAA40_AA     | CLK2  | 7.02351E-17  |
| Gene       | CLK2  | Value         |
|------------|-------|---------------|
| NECAB3_RI  | CLK2  | 0             |
| NEDD4L_AP  | CLK2  | 0.003679905   |
| NEDD4L_AP  | CLK2  | 6.77547E-05   |
| NEDD9_AT   | CLK2  | 2.29826E-05   |
| NEIL1_AP   | CLK2  | 1.19374E-09   |
| NEIL3_AT   | CLK2  | 0.004084299   |
| NEK2_AT    | CLK2  | 0.006621813   |
| NEK3_AP    | CLK2  | 2.43076E-05   |
| NEK5_AT    | CLK2  | 0             |
| NET1_AP    | CLK2  | 2.23385E-10   |
| NEU4_AP    | CLK2  | 0.000109563   |
| NFATC1_AT  | CLK2  | 1.4684E-05    |
| NFATC2IP_AP| CLK2  | 0             |
| NFATC3_AT  | CLK2  | 0.00013292    |
| NFATC4_RI  | CLK2  | 7.55099E-11   |
| NFE2L1_AP  | CLK2  | 1.14605E-09   |
| NFIX_AP    | CLK2  | 8.92181E-10   |
| NFIX_AP    | CLK2  | 0.008536641   |
| NFYC_AP    | CLK2  | 0.003040219   |
| NFYC_ES    | CLK2  | 0.004779328   |
| NGDN_RI    | CLK2  | 0             |
| NGLY1_AP   | CLK2  | 8.22126E-08   |
| NHLRC3_ES  | CLK2  | 0.002912529   |
| NIF3L1_AD  | CLK2  | 0.003400647   |
| NIN_AT     | CLK2  | 0.000436909   |
| NIPA1_AP   | CLK2  | 0.006974739   |
| NISCH_AT   | CLK2  | 0.001683681   |
| NISCH_RI   | CLK2  | 0             |
| NIT1_AT    | CLK2  | 1.35914E-12   |
| NKRF_AP    | CLK2  | 1.603E-09     |
| NLE1_AD    | CLK2  | 2.35098E-11   |
| NLK_AT     | CLK2  | 0.015347722   |
| NLRP1_AT   | CLK2  | 2.35529E-11   |
| NLRP1_AT   | CLK2  | 5.9744E-05    |
| NMD3_AT    | CLK2  | 0.00030489    |
| NME4_AP    | CLK2  | 9.39847E-11   |
| NME4_AP    | CLK2  | 1.62139E-06   |
| NME4_AT    | CLK2  | 0.000238797   |
| NME6_AA    | CLK2  | 3.9066E-12    |
| NMNAT1_AT  | CLK2  | 4.68505E-15   |
| NMRAL1_ES  | CLK2  | 2.20269E-13   |
| NMRAL1_RI  | CLK2  | 3.86018E-08   |
| NMRAL1_RI  | CLK2  | 4.58403E-11   |
| NMRAL1_RI  | CLK2  | 3.70961E-15   |
| NMRK1_ES   | CLK2  | 0.000113884   |
| NMT2_RI    | CLK2  | 8.8758E-18    |
| NNT_AP     | CLK2  | 0.006849771   |
| NOL12_RI   | CLK2  | 5.09629E-16   |
| NOL6_AP    | CLK2  | 7.44595E-14   |
| NOL8_AA    | CLK2  | 9.16233E-16   |
| NOP2_AP    | CLK2  | 1.9932E-13    |
| NOP2_RI    | CLK2  | 2.66497E-16   |
| Name    | Clock | Value          |
|---------|-------|----------------|
| NOP2_RI | CLK2  | 3.79935E-17    |
| NOP2_AD | CLK2  | 0.006810894    |
| NOP58_ES| CLK2  | 4.09447E-08    |
| NOS1AP_AP| CLK2 | 1.61199E-06    |
| NOS3_AT | CLK2  | 0.008551693    |
| NOTCH2NL_AT| CLK2 | 0.006482537    |
| NPDC1_AP| CLK2  | 0              |
| NPEPPS_AP| CLK2 | 0.000730479    |
| NPEPPS_AT| CLK2 | 2.24885E-13    |
| NPEPPS_AD| CLK2 | 0              |
| NPEPPS_ES| CLK2 | 9.75651E-15    |
| NPHP1_AT| CLK2  | 0.001016845    |
| NPIPA5_AT| CLK2 | 0.001591092    |
| NPIPA5_ES| CLK2 | 3.73039E-18    |
| NPIPA7_AT| CLK2 | 9.6481E-13     |
| NPIPB3_AP| CLK2 | 1.24372E-08    |
| NPIPB4_ES| CLK2 | 0.006387326    |
| NPIPB5_AP| CLK2 | 0.00043783     |
| NPIPB5_ES| CLK2 | 0.00017292     |
| NPIPB5_ES| CLK2 | 0.001931287    |
| NPIPB6_AP| CLK2 | 0.014405486    |
| NPL_AD  | CLK2  | 1.9332E-11     |
| NPLC04_AP| CLK2 | 0.001594281    |
| NPLC04_AT| CLK2 | 0              |
| NPLC1_AT| CLK2  | 1.64034E-08    |
| NPLNT_ES| CLK2  | 1.98098E-05    |
| NPLR02_RI| CLK2 | 0              |
| NPLR02_RI| CLK2 | 0              |
| NQO2_AP | CLK2  | 5.21711E-07    |
| NR1H3_RI| CLK2  | 5.5632E-11     |
| NR1H3_AA| CLK2  | 0.002170134    |
| NR1H3_ES| CLK2  | 0              |
| NR1H3_RI| CLK2  | 1.00148E-09    |
| NR1H3_RI| CLK2  | 0              |
| NR2C1_AT| CLK2  | 3.54086E-07    |
| NR2C2AP_AT| CLK2 | 0.000158699    |
| NR4A1_AT| CLK2  | 5.55334E-12    |
| NR4A1_ES| CLK2  | 0.014759454    |
| NR4A2_AP| CLK2  | 0.0032379      |
| NRBP2_RI| CLK2  | 0              |
| NRG4_AT | CLK2  | 1.4087E-11     |
| NSL1_AT | CLK2  | 6.21703E-19    |
| NSMCE4A_AT| CLK2 | 4.28293E-10    |
| NSMCE4A_AT| CLK2 | 4.21683E-18    |
| NSMF_AP | CLK2  | 4.61954E-06    |
| NSMF_AT | CLK2  | 3.69972E-14    |
| NSMF_RI | CLK2  | 0              |
| NSMF_AA | CLK2  | 0              |
| NSMF_ES | CLK2  | 1.32988E-06    |
| NSUN5_RI| CLK2  | 8.34671E-07    |
| NSUN5_RI| CLK2  | 0              |
| NT5C_RI | CLK2  | 0.001202514    |
| NT5C_RI | CLK2  | 6.66912E-11    |
| Component    | Type  | Value         |
|--------------|-------|---------------|
| NT5C_AD      | CLK2  | 3.14944E-07   |
| NT5C3A_AP    | CLK2  | 3.12559E-05   |
| NTMT1_AP     | CLK2  | 0.001082646   |
| NTMT1_ES     | CLK2  | 1.49208E-05   |
| NTNG2_AT     | CLK2  | 4.93858E-08   |
| NTPCR_AT     | CLK2  | 0             |
| NUBP2_ES     | CLK2  | 7.16812E-17   |
| NUCB2_AP     | CLK2  | 0.006053707   |
| NUDT16_RI    | CLK2  | 7.26659E-12   |
| NUDT16L1_RI  | CLK2  | 9.61685E-15   |
| NUDT16L1_AD  | CLK2  | 0.004460689   |
| NUDT2_ES     | CLK2  | 7.28778E-07   |
| NUDT4_AP     | CLK2  | 0.001360933   |
| NUDT5_AT     | CLK2  | 0             |
| NUP43_AT     | CLK2  | 1.94271E-07   |
| NUP62_RI     | CLK2  | 0.01047469    |
| NUP62_RI     | CLK2  | 8.25327E-10   |
| NUP85_AP     | CLK2  | 0             |
| NUP85_RI     | CLK2  | 0             |
| NUP85_ES     | CLK2  | 2.81827E-11   |
| NUP98_AT     | CLK2  | 2.87649E-08   |
| NUTM2D_AT    | CLK2  | 0.012672227   |
| NXF1_RI      | CLK2  | 2.76271E-13   |
| NXPE1_AP     | CLK2  | 0             |
| NXPE2_AT     | CLK2  | 2.60922E-07   |
| OARD1_AD     | CLK2  | 0.013830695   |
| OAS1_AA      | CLK2  | 0.009800682   |
| OAZ3_AP      | CLK2  | 1.10787E-07   |
| OBSL1_AT     | CLK2  | 0.000470343   |
| OCEL1_AP     | CLK2  | 0.000694633   |
| OCIAD1_AD    | CLK2  | 1.16992E-12   |
| OCIAD1_ES    | CLK2  | 0.001542532   |
| OCLN_AP      | CLK2  | 0.006196714   |
| ODF2_AP      | CLK2  | 0.000735658   |
| ODF2_AT      | CLK2  | 1.11369E-08   |
| ODF2_ES      | CLK2  | 2.92475E-05   |
| ODF3B_AA     | CLK2  | 6.33748E-12   |
| ODF1_AT      | CLK2  | 0             |
| OGDH_AT      | CLK2  | 1.75511E-12   |
| OGFOD2_AP    | CLK2  | 0.014677818   |
| OGFOD2_ES    | CLK2  | 0             |
| OGFOD2_ES    | CLK2  | 1.09897E-09   |
| OGFOD2_AA    | CLK2  | 8.21596E-07   |
| OGFOD2_ES    | CLK2  | 5.20099E-12   |
| OGFR_AP      | CLK2  | 0             |
| OGFR_RI      | CLK2  | 0             |
| OGG1_AT      | CLK2  | 8.13946E-07   |
| OGG1_RI      | CLK2  | 3.27178E-07   |
| OGG1_RI      | CLK2  | 6.4424E-07    |
| OLFM1_AT     | CLK2  | 0.008611364   |
| OLFML2B_AP   | CLK2  | 0.0229817     |
| Gene      | Expression | CLK2          |
|-----------|------------|---------------|
| OPA1_ES   | 0.01028277 |               |
| OPA3_AP   | 0.00579489 |               |
| OPA3_AT   | 1.02881E-05|               |
| OPTN_ES   | 0.000344672|               |
| ORAI3_AT  | 3.12708E-06|               |
| ORMDL1_AP | 5.502E-08  |               |
| ORMDL1_AT | 5.71297E-09|               |
| ORMDL1_RI | 0           |               |
| OS9_RI    | 0           |               |
| OS9_ES    | 1.30284E-12|               |
| OS9_ES    | 0.009791748|               |
| OSBPL1A_AP| 7.00176E-06|               |
| OSBPL1A_AT| 1.78183E-07|               |
| OSBPL3_ES | 0.001215035|               |
| OSBPL5_AP | 0           |               |
| OSE1_AP   | 4.59354E-07|               |
| OSGEP_AP  | 0           |               |
| OSGEP_AD  | 0           |               |
| OSGEP_RI  | 0           |               |
| OSGEPL1_AA| 0.006495054|               |
| OTUD5_AP  | 0.00010043 |               |
| OXNAD1_AT | 4.97241E-10|               |
| OXR1_AT   | 6.84353E-05|               |
| OXS1_ES   | 0.000258961|               |
| P4HTM_ES  | 0           |               |
| PABPC1L_AT| 0.005220219|               |
| PABPC4_ES | 0.016288885|               |
| PABPC4_ES | 6.02451E-05|               |
| PABPC4_ES | 0.002246967|               |
| PABPN1_RI | 0           |               |
| PACRGL_AT | 0.000569149|               |
| PACRGL_AD | 0.012987477|               |
| PACS1_AP  | 2.70604E-10|               |
| PACS2_AP  | 0           |               |
| PACS2_AD  | 0.01170455 |               |
| PAIP1_AD  | 5.18005E-05|               |
| PAI1_AP   | 1.28373E-05|               |
| PAK4_ES   | 7.89116E-05|               |
| PALLD_ES  | 0.000120698|               |
| PAM16_AA  | 4.88396E-09|               |
| PAN3_AP   | 0.00988951 |               |
| PANK1_AP  | 0.002492004|               |
| PAPD4_ES  | 0.000298452|               |
| PAPOLA_AT | 0.003354685|               |
| PARD3_AD  | 9.14779E-08|               |
| PARD3_AD  | 7.98258E-09|               |
| PARL_AD   | 5.45633E-06|               |
| PARP11_AT | 0.037407043|               |
| PARP2_RI  | 3.90175E-15|               |
| PARP8_AT  | 0.026641842|               |
| PARP9_AT  | 8.13012E-10|               |
| PASK_AT   | 1.12926E-06|               |
| PAXIP1-AS2_AT | 1.56407E-06 |       |
| Gene   | Prefix | CLK2      |
|--------|--------|-----------|
| PBRM1_ES | CLK2   | 5.5839E-07 |
| PBRM1_ES | CLK2   | 0.000351853  |
| PBRM1_ES | CLK2   | 0.000540562  |
| PBX4_AT  | CLK2   | 5.27751E-05  |
| PCBD2_AT | CLK2   | 8.37717E-07  |
| PCBP2_AP | CLK2   | 5.81521E-07  |
| PCBP2_AT | CLK2   | 0            |
| PCBP2_ES | CLK2   | 0.006432837  |
| PCBP2_ES | CLK2   | 0.002430751  |
| PCBP4_AA | CLK2   | 0.00306601   |
| PCCB_AT  | CLK2   | 0.00855446  |
| PCDH11X_AT | CLK2 | 5.06999E-15 |
| PCDH11Y_AT | CLK2 | 0            |
| PCDH18_ES | CLK2   | 0.00059955  |
| PCDH18_AD | CLK2   | 1.33068E-06  |
| PCED1A_AA | CLK2   | 6.66801E-08  |
| PCGF2_AP | CLK2   | 6.0824E-10   |
| PCGF2_AP | CLK2   | 1.21497E-07  |
| PCGF3_RI | CLK2   | 0.000263188  |
| PCGF3_AA | CLK2   | 8.05647E-12  |
| PCK2_AD  | CLK2   | 2.67699E-09  |
| PCLO_AT  | CLK2   | 0.006666176  |
| PCNA_AP  | CLK2   | 0.000626259  |
| PCNP_ES  | CLK2   | 5.56157E-13  |
| PCNP_ES  | CLK2   | 0.001088622  |
| PCNP_AA  | CLK2   | 3.79378E-10  |
| PCNXL2_AP | CLK2    | 3.81068E-06  |
| PCNXL4_ES | CLK2   | 0.002010157  |
| PCSK5_AT | CLK2   | 2.90027E-07  |
| PCSK5_AT | CLK2   | 0.001816172  |
| PCSK7_ES | CLK2   | 1.15442E-15  |
| PCSK7_RI | CLK2   | 0            |
| PCTP_AA  | CLK2   | 9.98192E-08  |
| PCYT1A_AT | CLK2    | 8.47237E-07  |
| PCYT2_AA | CLK2   | 0            |
| PDCD2_AT | CLK2   | 4.24664E-08  |
| PDCD2L_AP | CLK2    | 0.000394227  |
| PDCD4_ES | CLK2   | 1.07893E-05  |
| PDCD6_AD | CLK2   | 1.28084E-05  |
| PDDC1_AA | CLK2   | 7.55247E-09  |
| PDE4D_AP | CLK2   | 0.000489562  |
| PDE4DIP_AP | CLK2    | 0.012852509  |
| PDE4DIP_AT | CLK2   | 4.74728E-16  |
| PDE4DIP_AT | CLK2    | 3.37238E-11  |
| PDE7A_AT | CLK2   | 9.2973E-11   |
| PDHA1_AT | CLK2   | 0            |
| PDHA1_ES | CLK2   | 2.15417E-05  |
| PDHX_AP  | CLK2   | 0.007499563  |
| PDLIM4_ES | CLK2   | 5.34381E-09  |
| PDLIM5_AT | CLK2   | 0.000432189  |
| PDLIM5_AA | CLK2   | 0.002916923  |
| PDLIM7_AT | CLK2    | 6.55409E-17  |
| PDLIM7_AA | CLK2   | 0            |
PDP1_AP  CLK2  6.09312E-12
PDXDC1_AT CLK2  3.08807E-05
PDXP_AP  CLK2  5.55816E-09
PDZD3_RI CLK2  1.39875E-17
PECR_AT  CLK2  1.68779E-05
PELP1_ES  CLK2  0
PER2_AT  CLK2  3.45735E-05
PEX10_AA CLK2  1.65996E-05
PEX11B_AP CLK2  4.32337E-08
PEX13_AT  CLK2  0.000525102
PEX16_AP  CLK2  0.007545653
PEX19_ES  CLK2  1.68878E-08
PEX26_AT  CLK2  3.5777E-10
PEX26_RI  CLK2  0.000167586
PEX5_AD  CLK2  1.44951E-07
PFDN1_ES  CLK2  0.001016962
PFDN5_ES  CLK2  0.000256269
PFDN5_ES  CLK2  1.63642E-05
PFDN5_ES  CLK2  3.18949E-08
PFKFB2_AP CLK2  8.74684E-08
PFKFB3_AT CLK2  0.02269632
PFKM_RI  CLK2  0
PFKP_AP  CLK2  0
PGAM5_AP  CLK2  9.26474E-06
PGAP1_AT  CLK2  0.043497697
PGAP2_AD  CLK2  1.83065E-11
PGAP2_AD  CLK2  1.85574E-15
PGAP2_ES  CLK2  4.75944E-14
PGAP2_ES  CLK2  0.000205924
PGBD2_AA  CLK2  5.9195E-05
PGPEP1_ES CLK2  8.92314E-05
PHB2_ES  CLK2  0
PHC2_AP  CLK2  3.83546E-05
PHF12_RI  CLK2  6.54482E-15
PHF12_RI  CLK2  0
PHF12_RI  CLK2  0
PHF14_ES  CLK2  0.010126572
PHF19_AP  CLK2  8.30241E-06
PHF6_AT  CLK2  6.19418E-05
PHLDB3_AT CLK2  0.000278724
PHLPP2_AT CLK2  6.78926E-07
PHTF2_AT  CLK2  0.001662442
PHYKPL_AT CLK2  7.7936E-10
PHYKPL_ES CLK2  7.6943E-11
PIAS2_AT  CLK2  0.001099475
PID1_AP  CLK2  0
PID1_ES  CLK2  1.23832E-13
PIDD_AP  CLK2  1.84522E-06
PIDD_RI  CLK2  4.00128E-17
PIDD_AA  CLK2  1.29816E-10
PIGA_ES  CLK2  4.1882E-08
PIGG_AT  CLK2  2.92516E-10
PIGG_AD  CLK2  0.000925838
| Gene          | Unit | Value         |
|--------------|------|---------------|
| PIGH_AT      | CLK2 | 0.000285801   |
| PIGL_AT      | CLK2 | 2.75742E-09   |
| PIGT_AD      | CLK2 | 0.00427633    |
| PIGV_AP      | CLK2 | 0.000222226   |
| PIGV_AD      | CLK2 | 0.00034225    |
| PIGX_AP      | CLK2 | 0.010588628   |
| PIGX_AT      | CLK2 | 0.01638672    |
| PIK3C3_AT    | CLK2 | 2.02396E-08   |
| PILRB_AP     | CLK2 | 0.006856044   |
| PILRB_AA     | CLK2 | 2.34348E-05   |
| PILRB_ES     | CLK2 | 0.001325159   |
| PITPNM2_AT   | CLK2 | 4.70709E-05   |
| PITX2_AT     | CLK2 | 6.64155E-07   |
| PIWIL4_AP    | CLK2 | 1.64133E-07   |
| PKMYT1_AP    | CLK2 | 0             |
| PKMYT1_AT    | CLK2 | 0.009412337   |
| PKN1_AP      | CLK2 | 2.41506E-05   |
| PKN2_AT      | CLK2 | 1.662E-07     |
| PLA2G10_ES   | CLK2 | 1.97616E-12   |
| PLA2R1_AT    | CLK2 | 6.89875E-05   |
| PLA2R1_RI    | CLK2 | 0             |
| PLAUR_AT     | CLK2 | 5.19669E-08   |
| PLAUR_ES     | CLK2 | 0.003318497   |
| PLCB3_AT     | CLK2 | 7.41094E-05   |
| PLCB3_ES     | CLK2 | 0.003318497   |
| PLCD1_AP     | CLK2 | 0.004967232   |
| PLCH1_AT     | CLK2 | 1.09872E-06   |
| PLCH2_AT     | CLK2 | 1.28486E-13   |
| PLD2_RI      | CLK2 | 0             |
| PLD2_ES      | CLK2 | 0.00621136    |
| PLEC_AP      | CLK2 | 3.11558E-06   |
| PLEKHA5_ES   | CLK2 | 0.001434538   |
| PLEKHA6_AA   | CLK2 | 9.91488E-06   |
| PLEKHA7_AT   | CLK2 | 1.77516E-05   |
| PLEKHA8_AT   | CLK2 | 7.33693E-09   |
| PLEKHB2_AP   | CLK2 | 2.34047E-07   |
| PLEKHB2_ES   | CLK2 | 3.14612E-05   |
| PLEKHB2_ES   | CLK2 | 0.000574254   |
| PLEKHB2_AD   | CLK2 | 0.00020946    |
| PLEKHB2_RI   | CLK2 | 0             |
| PLEKHG4_RI   | CLK2 | 0             |
| PLEKHG6_AP   | CLK2 | 3.40891E-13   |
| PLEKHZ1_AT   | CLK2 | 0             |
| PLEKHZ1_RI   | CLK2 | 0             |
| PLEKHS1_AP   | CLK2 | 0             |
| PLEKHS1_AT   | CLK2 | 0.006553115   |
| PLS1_AP      | CLK2 | 3.8317E-12    |
| PLS11_AT     | CLK2 | 1.03044E-08   |
| PNX11_AT     | CLK2 | 3.85144E-06   |
| PML_AT       | CLK2 | 0.001420594   |
| PML_RI       | CLK2 | 8.8772E-07    |
| PMP22_AP     | CLK2 | 1.50812E-07   |
| PMP22_AT     | CLK2 | 8.32942E-06   |
| PMP22_RI     | CLK2 | 1.18392E-12   |
| PMS1_AT      | CLK2 | 0.015377162   |
| Symbol      | Clock | Value         |
|-------------|-------|---------------|
| PNKD_AP     | CLK2  | 3.88625E-13   |
| PNKD_AT     | CLK2  | 5.5994E-14    |
| PNKP_AP     | CLK2  | 0.000879669   |
| PNKP_AA     | CLK2  | 6.11992E-08   |
| PODNL1_AP   | CLK2  | 0.00200103    |
| PODXL_RI    | CLK2  | 0             |
| POFUT2_AD   | CLK2  | 0             |
| POFUT2_ES   | CLK2  | 2.08967E-10   |
| POGK_RI     | CLK2  | 3.92252E-05   |
| POLA2_AT    | CLK2  | 0             |
| POLB_AP     | CLK2  | 1.30318E-10   |
| POLD4_AD    | CLK2  | 5.01895E-09   |
| POLD4_AD    | CLK2  | 2.98546E-06   |
| POLH_AT     | CLK2  | 0.006996867   |
| POLL_RI     | CLK2  | 0             |
| POLL_AD     | CLK2  | 2.1959E-06    |
| POLL_ES     | CLK2  | 6.50981E-05   |
| POLL_RI     | CLK2  | 0.00026054    |
| POLM_AA     | CLK2  | 0.002780806   |
| POLM_RI     | CLK2  | 6.39887E-06   |
| POLM_AD     | CLK2  | 1.77068E-08   |
| POLM_RI     | CLK2  | 1.33696E-07   |
| POLM_RI     | CLK2  | 0.00116127    |
| POLM_ES     | CLK2  | 0.000151261   |
| POLR2G_AD   | CLK2  | 4.69039E-06   |
| POLR2H_AA   | CLK2  | 0.012053337   |
| POLR2H_ES   | CLK2  | 2.01345E-05   |
| POLR2J2_ES  | CLK2  | 0.006493372   |
| POLR2J3_AT  | CLK2  | 1.08046E-12   |
| POLR2J3_AT  | CLK2  | 0.004585493   |
| POLR2J3_RI  | CLK2  | 7.11339E-12   |
| POLR2J3_ES  | CLK2  | 0             |
| POLR2J3_ES  | CLK2  | 0.013849659   |
| POM121_AT   | CLK2  | 0             |
| POM121C_AP  | CLK2  | 5.82502E-06   |
| POMGNT1_RI  | CLK2  | 0             |
| POMGNT1_RI  | CLK2  | 0             |
| POMT1_AD    | CLK2  | 5.97579E-13   |
| POMT1_ES    | CLK2  | 0.005101898   |
| POMZP3_ES   | CLK2  | 2.8603E-05    |
| PON2_AD     | CLK2  | 0             |
| PPAPDC1B_AD | CLK2  | 6.72163E-06   |
| PPARD_AT    | CLK2  | 0.000606093   |
| PPCS_AD     | CLK2  | 4.60007E-09   |
| PPFIA1_AT   | CLK2  | 3.26451E-13   |
| PPFIBP2_AP  | CLK2  | 0.005500527   |
| PPHLN1_AT   | CLK2  | 4.24629E-12   |
| PPIA_ES     | CLK2  | 5.79707E-16   |
| PPIE_AD     | CLK2  | 0.001783653   |
| PPM1A_AT    | CLK2  | 0.010843676   |
| PPM1B_AA    | CLK2  | 4.19956E-13   |
| PPM1F_AT    | CLK2  | 1.30202E-05   |
| PPM1M_RI    | CLK2  | 0             |
PPM1N_AP  CLK2  8.88718E-14
PPP1CC_RI  CLK2  0
PPP1R14A_AP  CLK2  0.000254603
PPP1R14B_AP  CLK2  0.004282847
PPP1R1B_AP  CLK2  5.77775E-08
PPP1R7_AT  CLK2  2.13136E-06
PPP1R7_ES  CLK2  7.92877E-05
PPP1R8_AD  CLK2  0.007827876
PPP2R1B_ES  CLK2  0.0015127
PPP2R4_AP  CLK2  3.18183E-07
PPP2R5C_AT  CLK2  0.011833374
PPP3CB_ES  CLK2  0.00184958
PPP4C_ES  CLK2  9.3465E-15
PPP4R1_ES  CLK2  1.12379E-05
PPP4R1L_AT  CLK2  0.007734807
PPP4R2_AT  CLK2  0.003119552
PPRC1_ES  CLK2  0.000446619
PQLC1_ES  CLK2  0.003419312
PQLC2_RI  CLK2  0.010765086
PQLC3_ES  CLK2  5.80495E-08
PRAPI_AD  CLK2  0.004266262
PRDM5_AT  CLK2  1.18225E-07
PRICKLE3_AT  CLK2  0
PRKAB1_AP  CLK2  0.00574926
PRKACB_AP  CLK2  1.28424E-08
PRKAG1_AD  CLK2  2.55639E-05
PRKCA_AT  CLK2  2.83925E-10
PRKCB_AA  CLK2  1.64032E-18
PRKCSH_AP  CLK2  0.002844649
PRKCBZ_AP  CLK2  0.009930657
PRKD2_AT  CLK2  7.54824E-09
PRKD2_AD  CLK2  0.001381459
PRMT2_AT  CLK2  0.000658452
PRMT2_RI  CLK2  0
PRMT2_AD  CLK2  1.70416E-13
PROM1_AP  CLK2  0.00097818
PROM2_AA  CLK2  0.000246193
PRP38B_AT  CLK2  2.79256E-11
PRPF39_ES  CLK2  3.24712E-17
PRPF39_ES  CLK2  7.8048E-19
PRPF8_RI  CLK2  0.000738433
PRR13_AA  CLK2  0.000526042
PRR13_AA  CLK2  0.001053733
PRR13_AA  CLK2  0.001014047
PRR13_AD  CLK2  0.000621814
PRRG1_AT  CLK2  1.87311E-12
PRRG2_AA  CLK2  1.21755E-05
PRRX1_AT  CLK2  2.08398E-06
PRSS23_AT  CLK2  0.003319807
PRSS23_RI  CLK2  0.001986028
PSEN1_AD  CLK2  0.008270429
PSEN1_AD  CLK2  0.011692823
PSENEN_AA  CLK2  3.83759E-05
| Gene Name   | Clock  | Value       |
|------------|--------|-------------|
| PSIP1_AT   | CLK2   | 0.001216439 |
| PSMA2_AT   | CLK2   | 3.27423E-08 |
| PSMC5_RI   | CLK2   | 0           |
| PSMD6_ES   | CLK2   | 2.83241E-07 |
| PSMD8_AT   | CLK2   | 3.80135E-20 |
| PSME1_RI   | CLK2   | 0           |
| PSME2_AA   | CLK2   | 4.09549E-13 |
| PSME3_AP   | CLK2   | 0.002062966 |
| PSMF1_AA   | CLK2   | 0.004130222 |
| PSMG3_AP   | CLK2   | 0.000181154 |
| PSMG4_RI   | CLK2   | 2.64282E-10 |
| PSMG4_RI   | CLK2   | 0           |
| PSMG4_AA   | CLK2   | 4.83786E-13 |
| PSPC1_AT   | CLK2   | 0.004166199 |
| PSPC1_AT   | CLK2   | 0.007311295 |
| PSPH_AP    | CLK2   | 0.000439704 |
| PTAR1_AT   | CLK2   | 7.49778E-09 |
| PTC2D2_AT  | CLK2   | 3.03964E-07 |
| PTCH1_AP   | CLK2   | 0.016052525 |
| PTCH2_AT   | CLK2   | 0.000460078 |
| PTGES2_ES  | CLK2   | 0           |
| PTGES2_AD  | CLK2   | 0.004499189 |
| PTGR1_AA   | CLK2   | 0           |
| PTK2_RI    | CLK2   | 4.11826E-14 |
| PTK2B_RI   | CLK2   | 0           |
| PTK7_AP    | CLK2   | 3.93043E-15 |
| PTOV1_RI   | CLK2   | 0           |
| PTOV1_RI   | CLK2   | 0           |
| PTPLA_AT   | CLK2   | 0.008509898 |
| PTPN2_AT   | CLK2   | 0.008248364 |
| PTPN3_AP   | CLK2   | 1.62275E-17 |
| PTPN6_AA   | CLK2   | 0           |
| PTTPC_AT   | CLK2   | 5.80759E-05 |
| PTPRE_AP   | CLK2   | 0.001126284 |
| PTPRE_AD   | CLK2   | 0           |
| PTPRJ_AT   | CLK2   | 2.17923E-08 |
| PTPRK_AT   | CLK2   | 2.13183E-12 |
| PTPRO_RI   | CLK2   | 3.6679E-09  |
| PTRH2_AP   | CLK2   | 0           |
| PTRH2_ES   | CLK2   | 1.81915E-06 |
| PTS_AP     | CLK2   | 0.017820707 |
| PTS_ES     | CLK2   | 1.27887E-05 |
| PTTMG1_AP  | CLK2   | 2.91455E-10 |
| PUM2_AD    | CLK2   | 0.00340876  |
| PUM2_ES    | CLK2   | 0.000960608 |
| PVR_ES     | CLK2   | 0.001241332 |
| PVRL1_AT   | CLK2   | 4.5858E-06  |
| PVRL2_AT   | CLK2   | 0.009732641 |
| PVRL3_AT   | CLK2   | 1.06519E-06 |
| PVRL3_AA   | CLK2   | 1.71283E-15 |
| PXK_AT     | CLK2   | 1.23607E-15 |
| PXMP2_AP   | CLK2   | 0           |
| PXMP2_AT   | CLK2   | 8.46712E-08 |
| Gene          | Cell Line | Time  |
|--------------|-----------|-------|
| PXN_AP       | CLK2      | 0.002644863 |
| PXN_AA       | CLK2      | 0.002030534  |
| PYCR1_AP     | CLK2      | 0.000236351  |
| PYGO2_AP     | CLK2      | 0.008809882  |
| QKI_AT       | CLK2      | 9.51627E-05  |
| QKI_RI       | CLK2      | 0.00856269   |
| QTRT1_RI     | CLK2      | 0        |
| R3HDM4_ES    | CLK2      | 0        |
| RAB11B_AT    | CLK2      | 1.03096E-08 |
| RAB15_AD     | CLK2      | 0        |
| RAB15_AD     | CLK2      | 0.005606233 |
| RAB34_AP     | CLK2      | 0.011145383 |
| RAB3GAP1_AT  | CLK2      | 0.000473448 |
| RAB3GAP1_ES  | CLK2      | 5.31473E-09 |
| RAB3IP_ES    | CLK2      | 1.87856E-15 |
| RAB6A_ME     | CLK2      | 7.84675E-07 |
| RABEPK_AT    | CLK2      | 8.10091E-05 |
| RABBGTA_RI   | CLK2      | 0.014578011 |
| RABBGGTB_AT  | CLK2      | 3.38445E-11 |
| RABBGGTB_ES  | CLK2      | 0        |
| RABL2B_AT    | CLK2      | 0        |
| RABL2B_AD    | CLK2      | 3.30494E-10 |
| RABL2B_AA    | CLK2      | 6.32167E-06 |
| RABL2B_ES    | CLK2      | 4.98234E-17 |
| RABL2B_ES    | CLK2      | 3.41231E-16 |
| RABL2B_ES    | CLK2      | 0.002031026 |
| RAC1_ES      | CLK2      | 5.62108E-13 |
| RACGAP1_AD   | CLK2      | 0.001204752 |
| RAD1_AP      | CLK2      | 3.56543E-06 |
| RAD21_AP     | CLK2      | 7.34895E-15 |
| RAD21_AP     | CLK2      | 1.05435E-11 |
| RAD23B_AP    | CLK2      | 2.01941E-05 |
| RAD51B_AT    | CLK2      | 0.002053646 |
| RAD51C_AT    | CLK2      | 0.000239717 |
| RAD52_AT     | CLK2      | 5.25959E-12 |
| RAEL_AT      | CLK2      | 7.37159E-14 |
| RAF1_ES      | CLK2      | 0.015516571 |
| RALBP1_AP    | CLK2      | 0.002256119 |
| RALGDS_AP    | CLK2      | 0.000235909 |
| RALY_ES      | CLK2      | 0.001313396 |
| RAMP1_AP     | CLK2      | 4.84144E-05 |
| RAN_AD       | CLK2      | 1.11313E-09 |
| RANBP1_AP    | CLK2      | 0.006226499 |
| RANBP1_RI    | CLK2      | 0        |
| RANBP1_RI    | CLK2      | 0        |
| RANBP10_AT   | CLK2      | 0        |
| RANBP10_AA   | CLK2      | 0.008604484 |
| RANBP3_ME    | CLK2      | 1.93E-06  |
| RANBP3_AA    | CLK2      | 0        |
| RANBP3_ES    | CLK2      | 6.43463E-06 |
| RANBP3_ES    | CLK2      | 3.95135E-10 |
| RANGAP1_AP   | CLK2      | 2.2688E-07 |
| Gene       | CLK2       | Value       |
|------------|------------|-------------|
| RCO3_AT    | CLK2       | 1.83766E-05 |
| RCO3_ES    | CLK2       | 4.20914E-08 |
| RCO3_ES    | CLK2       | 2.86735E-15 |
| RDH13_AT   | CLK2       | 0.003926874 |
| RECQL5_AT  | CLK2       | 2.08295E-14 |
| RELA_RI    | CLK2       | 0           |
| RELL1_AT   | CLK2       | 2.35557E-06 |
| RELL2_RI   | CLK2       | 0           |
| REPIN1_AA  | CLK2       | 0.001526112 |
| REPIN1_AD  | CLK2       | 0.007880766 |
| REPS1_ES   | CLK2       | 2.7176E-05  |
| RER1_AP    | CLK2       | 0           |
| RET_AT     | CLK2       | 0.015437551 |
| REV1_RI    | CLK2       | 2.5895E-06  |
| RFC4_AD    | CLK2       | 0.000639767 |
| RFC5_ES    | CLK2       | 1.91259E-11 |
| RFC5_ES    | CLK2       | 0.011111141 |
| RFNG_AP    | CLK2       | 0.000750791 |
| RGL3_AT    | CLK2       | 0.000255804 |
| RGMB_AP    | CLK2       | 0.012850633 |
| RGS1_AT    | CLK2       | 4.35602E-17 |
| RGS10_AP   | CLK2       | 0.00081917  |
| RGS11_AT   | CLK2       | 2.2201E-18  |
| RHBDD2_ES  | CLK2       | 0.000797294 |
| RHBDF1_AT  | CLK2       | 0           |
| RHBDF1_RI  | CLK2       | 0           |
| RHBDDL2_AP | CLK2       | 6.07094E-06 |
| RHOA_ES    | CLK2       | 0.012135112 |
| RHOC_AA    | CLK2       | 0           |
| RHOF_AT    | CLK2       | 3.41388E-16 |
| RHO2_RI    | CLK2       | 0           |
| RIC8B_AP   | CLK2       | 1.19902E-07 |
| RIMKLB_AT  | CLK2       | 6.2106E-08  |
| RIOK2_AT   | CLK2       | 4.87084E-05 |
| RIPK3_AD   | CLK2       | 0           |
| RMDN2_AT   | CLK2       | 2.51536E-13 |
| RMND1_AD   | CLK2       | 3.45111E-10 |
| RMND5B_AD  | CLK2       | 0.012588396 |
| RNASE1_ES  | CLK2       | 0.007015194 |
| RNASE1_ES  | CLK2       | 2.4001E-05  |
| RNASE1_ES  | CLK2       | 2.65331E-06 |
| RNASEH2C_RI| CLK2       | 6.00135E-06 |
| RNASEL_AT  | CLK2       | 0           |
| RNFI121_ES | CLK2       | 0.000297642 |
| RNFI123_AD | CLK2       | 0           |
| RNFI13_AD  | CLK2       | 0.012484553 |
| RNFI13_ES  | CLK2       | 2.31402E-05 |
| RNFI14_ES  | CLK2       | 0.000975667 |
| RNFI14_ES  | CLK2       | 4.03451E-05 |
| RNFI14_ES  | CLK2       | 4.62648E-07 |
| RNFI146_AT | CLK2       | 1.82143E-09 |
| RNFI149_AT | CLK2       | 0           |
| RNFI166_AP | CLK2       | 1.20367E-13 |
| Gene      | Phase | CLK2  |
|-----------|-------|-------|
| RNF166_RI |       | 0.009624214 |
| RNF167_RI |       | 0.00101685  |
| RNF170_AD |       | 0.01304269   |
| RNF213_AT |       | 9.56457E-13  |
| RNF220_AT |       | 0.006653394  |
| RNF31_AD  |       | 4.24445E-05  |
| RNF32_AT  |       | 0.001791033  |
| RNF34_AT  |       | 0.004270151  |
| RNF38_AP  |       | 0.004754     |
| RNF4_AP   |       | 7.86468E-06  |
| RNF43_AT  |       | 0          |
| RNF44_AA  |       | 0.012031408  |
| RNF7_ES   |       | 1.85725E-11  |
| RNF7_ES   |       | 3.59048E-05  |
| RNF8_ES   |       | 0.001806431  |
| RNGTT_AT  |       | 0.018754596  |
| RNH1_AP   |       | 0.005240318  |
| RNH1_ES   |       | 0.002923308  |
| RNH1_ES   |       | 0.002469191  |
| RNMTL1_ES |       | 5.11109E-06  |
| RNSC3_AA  |       | 0          |
| RNPS1_AD  |       | 0.000117763  |
| ROGDI_AA  |       | 8.41856E-10  |
| ROGDI_AD  |       | 1.86994E-19  |
| RPAIN_AT  |       | 0          |
| RPAP1_RI  |       | 1.57798E-10  |
| RPL10_RI  |       | 0.002468016  |
| RPL13_RI  |       | 2.54099E-05  |
| RPL13_AD  |       | 3.65178E-06  |
| RPL14_AD  |       | 4.98272E-10  |
| RPL15_AD  |       | 0.002201027  |
| RPL16_AP  |       | 0.00512098   |
| RPL17_AD  |       | 0.005025233  |
| RPL18A_ES |       | 0.001248881  |
| RPL19_ES  |       | 0.000250204  |
| RPL21_AD  |       | 3.01037E-13  |
| RPL26L1_AP|       | 9.97282E-05  |
| RPL26L1_AD|       | 0.000823482  |
| RPL28_AT  |       | 0          |
| RPL28_AT  |       | 5.18324E-11  |
| RPL28_RI  |       | 6.55143E-17  |
| RPL29_RI  |       | 0.003497347  |
| RPL32_RI  |       | 6.09997E-13  |
| RPL32_RI  |       | 0          |
| RPL34_AT  |       | 9.84854E-08  |
| RPL35_AD  |       | 0          |
| RPL37A_RI |       | 8.69862E-11  |
| RPL39L_AP |       | 1.28338E-09  |
| RPL6_AD   |       | 7.98333E-06  |
| RPL6_ES   |       | 4.60283E-06  |
| RPL8_RI   |       | 0.00089822   |
| Gene     | Modification | Clock | Value       |
|----------|--------------|-------|-------------|
| RPLP0_AA | CLK2         |       | 0.000301561 |
| RPLP0_AA | CLK2         |       | 0.001617172 |
| RPP25L_AD| CLK2         |       | 0.004068373 |
| RPP38_ES | CLK2         |       | 0.006245905 |
| RPS11_ES | CLK2         |       | 0.011003201 |
| RPS15_AA | CLK2         |       | 3.40991E-05 |
| RPS15_ES | CLK2         |       | 0.000206758 |
| RPS15A_ES| CLK2         |       | 0.000746578 |
| RPS15A_AD| CLK2         |       | 0.00044996  |
| RPS15A_AD| CLK2         |       | 8.24076E-11 |
| RPS2_RI  | CLK2         |       | 0.00032811  |
| RPS20_AA | CLK2         |       | 1.22647E-13 |
| RPS21_AA | CLK2         |       | 0            |
| RPS21_AD | CLK2         |       | 0            |
| RPS25_ES | CLK2         |       | 0.001411592 |
| RPS27A_RI| CLK2         |       | 0.000528267 |
| RPS27L_AT| CLK2         |       | 0            |
| RPS3_AT  | CLK2         |       | 0.000868342 |
| RPS3A_ES | CLK2         |       | 0            |
| RPS3A_ES | CLK2         |       | 0            |
| RPS6_A   | CLK2         |       | 7.97342E-18 |
| RPS6_Ad  | CLK2         |       | 0            |
| RPS6_RI  | CLK2         |       | 0.000154653 |
| RPS9_RI  | CLK2         |       | 3.08052E-12 |
| RPS9_A   | CLK2         |       | 0            |
| RPS9_ES  | CLK2         |       | 0.01370985  |
| RPUSD4_ES| CLK2         |       | 0.000713876 |
| RRNAD1_RI| CLK2         |       | 0.00097129  |
| RRP8_RI  | CLK2         |       | 4.68121E-08 |
| RRP8_AA  | CLK2         |       | 3.93454E-08 |
| RSAD1_AD | CLK2         |       | 0            |
| RSPRY1_AD| CLK2         |       | 2.85098E-08 |
| RTEI1_AD | CLK2         |       | 5.49089E-05 |
| RTKN2_AT | CLK2         |       | 8.59945E-08 |
| RTKN2_AT | CLK2         |       | 2.44384E-07 |
| RTN4_AP  | CLK2         |       | 3.06379E-13 |
| RUFY1_AP | CLK2         |       | 0.002745143 |
| RUFY1_ES | CLK2         |       | 7.48655E-06 |
| RUNX1_ES | CLK2         |       | 0.00118565  |
| RWDD1_ES | CLK2         |       | 0.004956694 |
| S100A1_AA| CLK2         |       | 0.000443537 |
| S100A13_AP| CLK2       |       | 7.59682E-05 |
| S100A16_AD| CLK2       |       | 0.002511843 |
| S100A2_AP| CLK2         |       | 1.64006E-05 |
| S100A4_AP| CLK2         |       | 4.04217E-05 |
| S100PBP_AT| CLK2       |       | 0.006074297 |
| SAA2_AT  | CLK2         |       | 0.001970778 |
| SAFB2_AT | CLK2         |       | 1.77914E-17 |
| SAMHD1_AT| CLK2         |       | 0.008014591 |
| SAP30BP_ES| CLK2       |       | 9.59392E-09 |
| SAR1B_AP | CLK2         |       | 2.90648E-13 |
| SARNP_AT | CLK2         |       | 8.44594E-05 |
| SAT1_AT  | CLK2         |       | 0            |
| Gene       | Region | Value          |
|------------|--------|----------------|
| SATB2_AP   | CLK2   | 0.00013856     |
| SAYSD1_AP  | CLK2   | 0.000276234    |
| SCAF11_AP  | CLK2   | 4.86302E-07    |
| SCARBI1_AT | CLK2   | 6.65863E-09    |
| SCIMP_AT   | CLK2   | 1.5954E-07     |
| SCLY_AT    | CLK2   | 0.000267181    |
| SCMH1_ES   | CLK2   | 0.004445573    |
| SCNM1_AP   | CLK2   | 0.001768599    |
| SCNN1A_AP  | CLK2   | 0.004051893    |
| SCNN1A_ES  | CLK2   | 5.19927E-07    |
| SCO2_AP    | CLK2   | 0.000517206    |
| SCP2_ES    | CLK2   | 6.48722E-08    |
| SCRN2_AP   | CLK2   | 2.28406E-05    |
| SCRN2_RI   | CLK2   | 0              |
| SCRN2_AA   | CLK2   | 0              |
| SCYL1_RI   | CLK2   | 8.75946E-08    |
| SCYL1_AA   | CLK2   | 3.44219E-09    |
| SCYL3_ES   | CLK2   | 0.000598858    |
| SDC2_AD    | CLK2   | 4.26304E-08    |
| SDC3_RI    | CLK2   | 0              |
| SDCBP_ES   | CLK2   | 1.33456E-07    |
| SDCCAG3_ES | CLK2   | 0.001810636    |
| SDCCAG3_ES | CLK2   | 6.06451E-05    |
| SDHAF2_ES  | CLK2   | 1.70735E-05    |
| SDR39U1_AP | CLK2   | 0              |
| SEC14L1_AP | CLK2   | 0.007014582    |
| SEC14L2_AT | CLK2   | 1.95487E-13    |
| SEC16A_AA  | CLK2   | 0.000603158    |
| SEC22C_AT  | CLK2   | 2.29192E-10    |
| SEC23A_AP  | CLK2   | 0.001070344    |
| SEC23A_AT  | CLK2   | 2.98025E-09    |
| SEC24A_AT  | CLK2   | 9.45905E-10    |
| SEC24B_ES  | CLK2   | 0.000367009    |
| SEC24C_RI  | CLK2   | 0              |
| SEC31A_AP  | CLK2   | 5.0959E-05     |
| SEC31A_AD  | CLK2   | 6.67484E-11    |
| SEC31A_ES  | CLK2   | 7.77559E-12    |
| SEC31A_ES  | CLK2   | 0.003955184    |
| SEC6A12_AT | CLK2   | 3.17108E-16    |
| SEC61G_AD  | CLK2   | 0.012804148    |
| SECTM1_AA  | CLK2   | 5.93507E-14    |
| SEMA4B_AP  | CLK2   | 0.00017209     |
| SEMA4G_AD  | CLK2   | 0.004129224    |
| SEMA6A_AP  | CLK2   | 1.42331E-12    |
| SEMA6A_ES  | CLK2   | 3.66298E-06    |
| SENP6_ES   | CLK2   | 8.76591E-05    |
| SEPHS1_ES  | CLK2   | 2.61644E-05    |
| SEPT10_AT  | CLK2   | 0.00025447     |
| SEPT2_AP   | CLK2   | 0.009593305    |
| SEPT2_ES   | CLK2   | 0.000754303    |
| SEPT6_AT   | CLK2   | 2.21931E-09    |
| SEPT8_AA   | CLK2   | 1.29774E-16    |
| SEPT9_AP   | CLK2   | 0.00120318     |
| Gene          | CLK2    | Value       |
|--------------|---------|-------------|
| SERF1A_AP    | CLK2    | 0.013628468 |
| SERHL2_AD    | CLK2    | 0.00012938  |
| SERINC2_AP   | CLK2    | 9.36528E-11 |
| SERP2_ES     | CLK2    | 6.83009E-05 |
| SERPINA1_RI  | CLK2    | 0.000584287 |
| SERPINA1_RI  | CLK2    | 0.000101968 |
| SERPINA1_AA  | CLK2    | 6.65497E-05 |
| SERPINA1_AA  | CLK2    | 3.19528E-06 |
| SERPINA1_ES  | CLK2    | 0.001842907 |
| SERPINA1_ES  | CLK2    | 1.60927E-06 |
| SERPINA1_ES  | CLK2    | 0.001512324 |
| SERPINA1_ES  | CLK2    | 0.005593325 |
| SERPINB6_AP  | CLK2    | 0.000688634 |
| SERPINB6_AP  | CLK2    | 0.001037054 |
| SERTAD3_AP   | CLK2    | 2.21285E-05 |
| SESN1_AP     | CLK2    | 1.19012E-06 |
| SET_AP       | CLK2    | 0.000602728 |
| SETD4_AP     | CLK2    | 3.63315E-08 |
| SETD4_AT     | CLK2    | 0            |
| SETD6_AA     | CLK2    | 1.40163E-11 |
| SETDB1_AT    | CLK2    | 1.28227E-09 |
| SETMAR_AT    | CLK2    | 2.9559E-06  |
| SF1_AA       | CLK2    | 0.000126681 |
| SF1_AD       | CLK2    | 0.002675995 |
| SF3B1_AT     | CLK2    | 1.3725E-05  |
| SF3B1_AD     | CLK2    | 0.003468139 |
| SFMBT2_AT    | CLK2    | 1.87708E-05 |
| SFSWAP_ES    | CLK2    | 3.20389E-09 |
| SFSWAP_AD    | CLK2    | 0.003074188 |
| SFXN5_AT     | CLK2    | 3.31552E-07 |
| SGCE_ES      | CLK2    | 0.002516637 |
| SGK1_AP      | CLK2    | 1.06629E-06 |
| SGK2_AP      | CLK2    | 0            |
| SGK2_ES      | CLK2    | 0            |
| SGSH_AT      | CLK2    | 2.44137E-13 |
| SGSM3_RI     | CLK2    | 0            |
| SH2B1_AP     | CLK2    | 7.49174E-08 |
| SH2B1_AD     | CLK2    | 4.98468E-07 |
| SH2B1_RI     | CLK2    | 2.48343E-17 |
| SH2B1_RI     | CLK2    | 0            |
| SH2D3A_RI    | CLK2    | 5.2104E-08  |
| SH3BP1_ES    | CLK2    | 2.144E-07   |
| SH3BP2_AP    | CLK2    | 4.78366E-05 |
| SH3BP2_ES    | CLK2    | 4.03253E-07 |
| SH3KBP1_AP   | CLK2    | 0.000141676 |
| SH3RF2_AT    | CLK2    | 1.76812E-07 |
| SH3YL1_AP    | CLK2    | 0.000358244 |
| SH3YL1_AP    | CLK2    | 0            |
| SH3YL1_ES    | CLK2    | 0.004579678 |
| SH3YL1_AD    | CLK2    | 3.58008E-09 |
| SHC1_AP      | CLK2    | 0.005993264 |
| SHF_AP       | CLK2    | 0.000435482 |
| Gene       | Clock | Value          |
|------------|-------|----------------|
| SHH_AP     | CLK2  | 0.00181514     |
| SHPK_AT    | CLK2  | 0.000227773    |
| SHPK_AT    | CLK2  | 0.000172489    |
| SHROOM1_AA | CLK2  | 0.0000181514   |
| SHROOM1_ES | CLK2  | 3.68215E-15    |
| SIAH1_AP   | CLK2  | 1.08021E-07    |
| SIAH1_AT   | CLK2  | 0.000318125    |
| SIDT2_RI   | CLK2  | 3.52835E-11    |
| SIGIRR_AP  | CLK2  | 0.00199657     |
| SIGIRR_RI  | CLK2  | 0.0002606573   |
| SIAH1_AT   | CLK2  | 7.71661E-16    |
| SIN3B_AT   | CLK2  | 1.56888E-09    |
| SIN3B_ES   | CLK2  | 0.002371094    |
| SIRT3_AA   | CLK2  | 1.65745E-08    |
| SIRT5_AT   | CLK2  | 2.16628E-10    |
| SIRT6_AA   | CLK2  | 0.000779906    |
| SLAMF7_ES  | CLK2  | 5.18378E-12    |
| SLC10A3_RI | CLK2  | 0.000177689    |
| SLC10A3_RI | CLK2  | 0.000274686    |
| SLC11A2_AT | CLK2  | 0.006429651    |
| SLC12A2_ES | CLK2  | 0.002606573    |
| SLC12A9_AT | CLK2  | 0.000940975    |
| SLC12A9_AA | CLK2  | 0.0002606573   |
| SLC13A3_AT | CLK2  | 3.03083E-05    |
| SLC14A2_AT | CLK2  | 4.77238E-05    |
| SLC15A4_AP | CLK2  | 1.31065E-10    |
| SLC15A4_RI | CLK2  | 2.59567E-12    |
| SLC16A1_AT | CLK2  | 7.19842E-10    |
| SLC16A3_AP | CLK2  | 4.85525E-10    |
| SLC16A5_AP | CLK2  | 0.006689799    |
| SLC16A5_AT | CLK2  | 7.61212E-15    |
| SLC16A5_AT | CLK2  | 6.39971E-06    |
| SLC19A1_AP | CLK2  | 5.73265E-05    |
| SLC1A4_AP  | CLK2  | 0.00503791     |
| SLC20A2_AP | CLK2  | 1.85592E-05    |
| SLC22A18_AP| CLK2  | 1.18453E-09    |
| SLC22A18_AP| CLK2  | 0.001559978    |
| SLC22A18AS_ES| CLK2 | 2.34794E-14   |
| SLC22A23_AT| CLK2  | 0.012367062    |
| SLC24A1_AT | CLK2  | 1.62322E-07    |
| SLC25A14_RI| CLK2  | 0.0000181514   |
| SLC25A16_ES| CLK2  | 0.000227773    |
| SLC25A19_AP| CLK2  | 0.0000172489   |
| SLC25A22_AP| CLK2  | 0.000181514    |
| SLC25A26_AT| CLK2  | 3.68215E-15    |
| SLC25A29_AP| CLK2  | 1.08021E-07    |
| SLC25A29_AA| CLK2  | 0.000318125    |
| SLC25A29-AA| CLK2  | 3.52835E-11    |
| SLC25A3_Ad | CLK2  | 0.00199657     |
| SLC25A35_AT| CLK2  | 7.19842E-10    |
| SLC25A37_AA| CLK2  | 4.85525E-10    |
| Gene     | Function | Value       |
|----------|----------|-------------|
| SLC25A37_AD | CLK2     | 0.006464596 |
| SLC25A39_AA  | CLK2     | 1.84457E-07 |
| SLC26A1_AT   | CLK2     | 0.00216222  |
| SLC26A6_AP   | CLK2     | 0           |
| SLC29A1_AP   | CLK2     | 0.00016851  |
| SLC29A1_ES   | CLK2     | 1.30022E-06 |
| SLC2A11_AT   | CLK2     | 6.58619E-08 |
| SLC30A5_AA   | CLK2     | 0.008168979 |
| SLC35A2_AT   | CLK2     | 1.26649E-05 |
| SLC35B1_AA   | CLK2     | 0.003873347 |
| SLC35C1_RI   | CLK2     | 2.43205E-12 |
| SLC35C2_AA   | CLK2     | 1.12948E-06 |
| SLC35D1_AT   | CLK2     | 2.30884E-11 |
| SLC35E2_AT   | CLK2     | 6.2408E-06  |
| SLC35F5_AT   | CLK2     | 3.57836E-06 |
| SLC35F5_AD   | CLK2     | 2.61766E-12 |
| SLC35G1_AT   | CLK2     | 4.12318E-12 |
| SLC37A3_AA   | CLK2     | 0           |
| SLC37A4_ES   | CLK2     | 1.94737E-09 |
| SLC39A1_AP   | CLK2     | 0.001096782 |
| SLC39A13_RI  | CLK2     | 0           |
| SLC39A13_RI  | CLK2     | 0           |
| SLC39A14_AP  | CLK2     | 7.12038E-13 |
| SLC39A5_AP   | CLK2     | 0.002450579 |
| SLC39A8_AP   | CLK2     | 5.32357E-06 |
| SLC3A1_AP    | CLK2     | 2.97848E-17 |
| SLC3A2_AP    | CLK2     | 4.14952E-05 |
| SLC3A2_ES    | CLK2     | 4.79441E-05 |
| SLC44A1_AT   | CLK2     | 1.11584E-05 |
| SLC44A5_AT   | CLK2     | 9.93102E-14 |
| SLC4A8_AT    | CLK2     | 0.004865811 |
| SLC52A1_AP   | CLK2     | 8.14773E-11 |
| SLC52A2_AD   | CLK2     | 0.00042621  |
| SLC52A2_AD   | CLK2     | 0.002538438 |
| SLC52A3_RI   | CLK2     | 0.000229006 |
| SLC6A6_AT    | CLK2     | 0.000111545 |
| SLC6A8_AP    | CLK2     | 0           |
| SLC6A9_AT    | CLK2     | 2.54943E-13 |
| SLC8B1_AP    | CLK2     | 1.70356E-16 |
| SLC8B1_AP    | CLK2     | 3.31191E-10 |
| SLCO2B1_RI   | CLK2     | 0           |
| SLC03A1_AT   | CLK2     | 0.009413844 |
| SLC04A1_AD   | CLK2     | 4.43523E-18 |
| SLC04A1_RI   | CLK2     | 0           |
| SLIRP_AT     | CLK2     | 0.009224871 |
| SLTM_ES      | CLK2     | 0.004737785 |
| SMAD2_AT     | CLK2     | 0.007301747 |
| SMAD6_AP     | CLK2     | 2.36524E-06 |
| SMARCC2_AD   | CLK2     | 0.00380022  |
| SMARCD3_RI   | CLK2     | 1.46538E-18 |
| SMARCE1_AT   | CLK2     | 8.01456E-05 |
| Component         | CLK 2   | Value       |
|-------------------|---------|-------------|
| SMC5_ES           | CLK2    | 1.63515E-06|
| SMGI_AT           | CLK2    | 1.0131E-10  |
| SMIM12_AD         | CLK2    | 0.005392323 |
| SMIM5_AP          | CLK2    | 1.07922E-07 |
| SMN1_RI           | CLK2    | 4.26102E-05 |
| SMN1_AA           | CLK2    | 0.001262069 |
| SMPD4_ES          | CLK2    | 0.00068037  |
| SMRTN_ES          | CLK2    | 4.45775E-07 |
| SMUG1_ES          | CLK2    | 2.17351E-06 |
| SMYD5_AA          | CLK2    | 6.81812E-16 |
| SNAPC2_AP         | CLK2    | 7.44664E-06 |
| SNAPC3_AT         | CLK2    | 0.003721979 |
| SNED1_AT          | CLK2    | 0.001544769 |
| SNRPN_AP          | CLK2    | 5.7613E-06  |
| SNTB1_AP          | CLK2    | 1.75308E-05 |
| SNX13_RI          | CLK2    | 0           |
| SNX13_AA          | CLK2    | 0.011789289 |
| SNX19_AP          | CLK2    | 1.09655E-08 |
| SNX19_AD          | CLK2    | 5.88613E-06 |
| SNX20_AT          | CLK2    | 0.000238464 |
| SNX21_AT          | CLK2    | 0           |
| SNX3_AD           | CLK2    | 1.68556E-05 |
| SNX5_AT           | CLK2    | 6.00622E-08 |
| SNX6_AA           | CLK2    | 6.99659E-09 |
| SOD2_AP           | CLK2    | 3.84304E-07 |
| SOD2_AT           | CLK2    | 8.42784E-08 |
| SPI40L_AT         | CLK2    | 0.000925518 |
| SPAG1_AT          | CLK2    | 1.4899E-06  |
| SPATA13_AP        | CLK2    | 0.001765395 |
| SPATA20_RI        | CLK2    | 9.56288E-12 |
| SPATA20_AD        | CLK2    | 0           |
| SPATS2_AT         | CLK2    | 0.002038414 |
| SPDL1_AT          | CLK2    | 3.01308E-12 |
| SPG7_AT           | CLK2    | 0.000505074 |
| SPHK2_RI          | CLK2    | 0           |
| SPIN2A_AP         | CLK2    | 3.98395E-06 |
| SPIN2B_AD         | CLK2    | 0.000124231 |
| SPIN3_AT          | CLK2    | 0.000346935 |
| SPINK5_AT         | CLK2    | 8.59735E-09 |
| SPRED2_AP         | CLK2    | 2.1933E-10  |
| SPRY2_AP          | CLK2    | 1.84701E-16 |
| SPSB3_AP          | CLK2    | 5.85516E-09 |
| SPTB_AT           | CLK2    | 0.002027962 |
| SPTLC1_AT         | CLK2    | 0.014728444 |
| SRCAP_ES          | CLK2    | 0.000809184 |
| SREBF1_AP         | CLK2    | 1.13926E-14 |
| SREBF1_RI         | CLK2    | 0           |
| SRI_AP            | CLK2    | 0           |
| SRI_AT            | CLK2    | 7.12978E-11 |
| SRP68_AP          | CLK2    | 0.001773657 |
| SRP9_ES           | CLK2    | 2.08006E-14 |
| SRPK2_AT          | CLK2    | 0.006401456 |
| SRRM1_AD          | CLK2    | 0.006975091 |
| Gene             | Condition | Value         |
|------------------|-----------|---------------|
| SRRM1_ES         | CLK2      | 3.29295E-18   |
| SRRRT_ES         | CLK2      | 2.5084E-16    |
| SRSF1_RI         | CLK2      | 0             |
| SRSF11_AP        | CLK2      | 7.45131E-07   |
| SRSF11_ES        | CLK2      | 8.09969E-07   |
| SRSF11_ES        | CLK2      | 0.006280476   |
| SRSF2_RI         | CLK2      | 0             |
| SRSF2_RI         | CLK2      | 0             |
| SRSF2_AD         | CLK2      | 2.03927E-10   |
| SRSF5_AT         | CLK2      | 0             |
| SRSF5_AA         | CLK2      | 0             |
| SRSF5_AD         | CLK2      | 3.19986E-07   |
| SRSF5_AD         | CLK2      | 4.78226E-08   |
| SRSF6_ES         | CLK2      | 0             |
| SRSF7_AK         | CLK2      | 5.54323E-15   |
| SRSF7_AD         | CLK2      | 1.18803E-12   |
| SRSF7_ES         | CLK2      | 6.48588E-05   |
| SSI8_ES          | CLK2      | 5.28408E-07   |
| SSBP1_AD         | CLK2      | 4.38306E-05   |
| SSBP4_ES         | CLK2      | 0.0019489     |
| SSFA2_AP         | CLK2      | 0.004502729   |
| SSFA2_AD         | CLK2      | 2.53026E-13   |
| SSH1_AT          | CLK2      | 0.007270244   |
| SSH2_AT          | CLK2      | 4.11984E-11   |
| SSH3_RI          | CLK2      | 0             |
| SSH3_AA          | CLK2      | 8.32937E-05   |
| SSR1_AT          | CLK2      | 0.001094563   |
| SSR4_AP          | CLK2      | 9.26813E-06   |
| ST20_AP          | CLK2      | 1.46782E-05   |
| ST20_AP          | CLK2      | 1.02177E-15   |
| ST3GAL4_AP       | CLK2      | 7.81467E-05   |
| ST5_Ap           | CLK2      | 7.49827E-09   |
| ST5_ES           | CLK2      | 0.000265389   |
| ST6GALNAC1_AT    | CLK2      | 6.18662E-07   |
| ST6GALNAC1_ES    | CLK2      | 2.22587E-07   |
| ST7_Ap           | CLK2      | 0.000279284   |
| ST8SIA1_AT       | CLK2      | 0.000149959   |
| STAG1_AT         | CLK2      | 0.006431527   |
| STAG2_ES         | CLK2      | 1.74478E-06   |
| STAMPB_Ap        | CLK2      | 1.19634E-05   |
| STAMPB_AT        | CLK2      | 3.47336E-06   |
| STAP2_AA         | CLK2      | 4.63671E-15   |
| STAP2_AA         | CLK2      | 3.72851E-09   |
| STARD10_Ap       | CLK2      | 0.000239291   |
| STARD3_AA        | CLK2      | 7.92313E-13   |
| STAT1_AT         | CLK2      | 0.00090542    |
| STAT2_AA         | CLK2      | 0.014291794   |
| STAT3_AD         | CLK2      | 0.004139379   |
| STAT6_AP         | CLK2      | 6.1898E-07    |
| STEAP4_AT        | CLK2      | 4.01511E-14   |
| STK16_AA         | CLK2      | 0.001255826   |
| STK16_AD         | CLK2      | 7.02871E-06   |
| Gene          | Time | Value |
|--------------|------|-------|
| STK17B_AP    | CLK2 | 3.21477E-05 |
| STK25_AP     | CLK2 | 1.15398E-07 |
| STRA13_AD    | CLK2 | 0.000409292 |
| STRA13_AD    | CLK2 | 0     |
| STRA13_ES    | CLK2 | 7.29925E-13 |
| STRADA_RI    | CLK2 | 4.20046E-13 |
| STRADA_RI    | CLK2 | 2.95937E-14 |
| STRADA_RI    | CLK2 | 3.33207E-06 |
| STRADA_AA    | CLK2 | 1.10646E-06 |
| STRADB_AA    | CLK2 | 1.32257E-09 |
| STRAP_ES     | CLK2 | 0.000742859 |
| STRIP2_AT    | CLK2 | 0.001200024 |
| STRN3_ES     | CLK2 | 0.010214012 |
| STRN4_AA     | CLK2 | 0.000181212 |
| STX10_RI     | CLK2 | 0     |
| STX16_AD     | CLK2 | 0.007333975 |
| STX16_RI     | CLK2 | 0.001255839 |
| STX2_ES      | CLK2 | 1.33321E-06 |
| STXBPO2_AP   | CLK2 | 0     |
| STYXLI1_AD   | CLK2 | 0.002177493 |
| SUGP1_AA     | CLK2 | 0     |
| SUGP2_AT     | CLK2 | 0.000131055 |
| SUGP2_ES     | CLK2 | 2.86052E-05 |
| SUGP2_AD     | CLK2 | 1.98426E-12 |
| SUGP2_ES     | CLK2 | 2.39474E-09 |
| SULF2_ES     | CLK2 | 0.000855719 |
| SULT1A1_API  | CLK2 | 0.010803679 |
| SULT1A1_API  | CLK2 | 0.002445801 |
| SULT1A1_ES   | CLK2 | 8.30377E-13 |
| SULT1A2_AA   | CLK2 | 3.76083E-08 |
| SULT1A2_RI   | CLK2 | 0     |
| SULT1A3_API  | CLK2 | 0     |
| SULT1A3_API  | CLK2 | 1.89908E-07 |
| SULT1A3_RI   | CLK2 | 0     |
| SULT1A4_AP   | CLK2 | 0     |
| SUMF1_AT     | CLK2 | 7.20885E-08 |
| SUMF2_ES     | CLK2 | 3.47082E-08 |
| SUMO3_AT     | CLK2 | 6.01868E-07 |
| SUN1_ES      | CLK2 | 4.80312E-10 |
| SUOX_AP      | CLK2 | 0     |
| SUOX_ES      | CLK2 | 0.00067405 |
| SUOX_ES      | CLK2 | 0.001196381 |
| SUPT2OH_ES   | CLK2 | 0.000246461 |
| SUPT4H1_API  | CLK2 | 9.18794E-15 |
| SUPT4H1_AD   | CLK2 | 1.12154E-15 |
| SUPT4H1_AD   | CLK2 | 5.48827E-14 |
| SUPT5H_ES    | CLK2 | 3.98554E-07 |
| SUPT7L_RI    | CLK2 | 4.14429E-12 |
| SUPT7L_RI    | CLK2 | 0     |
| SV2A_AT      | CLK2 | 1.19594E-06 |
| SVEP1_AT     | CLK2 | 0.000211698 |
| SYK_ES       | CLK2 | 0.005048053 |
| SYMPK_API    | CLK2 | 3.27701E-11 |
| Gene     | Condition | Expression |
|----------|-----------|------------|
| SYNE2_AP | CLK2      | 3.44403E-06|
| SYNE2_AA | CLK2      | 3.85239E-06|
| SYNGR2_AA| CLK2      | 6.06102E-15|
| SYNGR2_AA| CLK2      | 0          |
| SYNJ2_AP | CLK2      | 0.002029467|
| SYNJ2_AT | CLK2      | 2.49138E-06|
| SYNM_RI  | CLK2      | 5.77738E-07|
| SYNPO_AT | CLK2      | 0.011363541|
| SYP_AT   | CLK2      | 2.75901E-09|
| SYS1_AT  | CLK2      | 4.95377E-08|
| SYT15_AA | CLK2      | 1.29406E-13|
| SYT17_AP | CLK2      | 3.184E-05  |
| SYTL1_AP | CLK2      | 0          |
| SYTL2_AP | CLK2      | 0.000181701|
| SYTL2_ES | CLK2      | 5.86681E-15|
| SYTL2_ES | CLK2      | 0.000848356|
| SYTL4_AT | CLK2      | 5.01949E-07|
| SZT2_AT  | CLK2      | 0.002676911|
| TAB3_AT  | CLK2      | 7.83692E-14|
| TAB3_RI  | CLK2      | 2.74535E-11|
| TADA2A_AD| CLK2      | 0.002324422|
| TADA2B_AP| CLK2      | 2.64831E-16|
| TADA3_AT | CLK2      | 1.7766E-09 |
| TAF12_AD | CLK2      | 3.5349E-14 |
| TAF1C_RI | CLK2      | 2.82727E-07|
| TAF1D_AT | CLK2      | 0.000379696|
| TAF1D_RI | CLK2      | 7.27461E-12|
| TAF1D_RI | CLK2      | 8.29297E-08|
| TAF1D_AA | CLK2      | 0.007988554|
| TAF6_AP  | CLK2      | 0          |
| TAF6_AD  | CLK2      | 1.08057E-06|
| TAF6_AD  | CLK2      | 1.25079E-06|
| TAF9_AP  | CLK2      | 8.1849E-14 |
| TAGLN_RI | CLK2      | 5.23003E-05|
| TANK_AP  | CLK2      | 0.005821054|
| TANK_AT  | CLK2      | 0.004013002|
| TANK_ES  | CLK2      | 8.10341E-06|
| TANK_ES  | CLK2      | 4.05043E-05|
| TAOK2_AP | CLK2      | 0          |
| TAOK3_AP | CLK2      | 0          |
| TARPB2_AA| CLK2      | 3.5631E-07 |
| TATDN1_AT| CLK2      | 0.010421752|
| TATDN1_ES| CLK2      | 0.014710226|
| TAZ_RI   | CLK2      | 0          |
| TAZ_AD   | CLK2      | 0          |
| TBC1D1_AT| CLK2      | 0.005308723|
| TBC1D10A_AP| CLK2  | 1.63593E-06|
| TBC1D10A_ES| CLK2  | 6.64835E-08|
| TBC1D14_AP| CLK2  | 0.002186946|
| TBC1D17_ES| CLK2  | 0          |
| TBC1D3_AD| CLK2      | 5.4888E-09 |
| TBC1D7_AT| CLK2      | 2.26024E-05|
| TBC1D7_AD| CLK2      | 0.000596888|
TBC1D7_AD      CLK2     0.007467433
TBC1D8B_AT     CLK2     4.39203E-12
TBC1D9B_AP     CLK2     0.000328279
TBCD_AT        CLK2     1.00394E-05
TBC_ES         CLK2     1.07677E-06
TBL2_AD        CLK2     0.000590789
TBL2_AA        CLK2     1.96439E-11
TC2N_AD        CLK2     0.002201849
TCAIM_AP       CLK2     0.002409724
TCEAL4_AA      CLK2     2.45171E-13
TCEAL8_ES      CLK2     0.00131273
TCEB1_AP       CLK2     0.006597613
TCEB1_AT       CLK2     0.003662942
TCEB1_ES       CLK2     0.008974367
TCF12_AP       CLK2     0.00363627
TCF12_ES       CLK2     5.28173E-13
TCF25_ES       CLK2     1.93057E-16
TCF3_AP        CLK2     1.37599E-06
TCF7_AT        CLK2     0.009387294
TCFL5_AT       CLK2     0.006087038
TCIRG1_RI      CLK2     0.013056688
TCOF1_AT       CLK2     1.18E-08
TCTN1_AT       CLK2     0.001625085
TDP2_AD        CLK2     7.84815E-05
TEAD4_AP       CLK2     0.003662942
TECPR2_AT      CLK2     0.004289622
TECR_AA        CLK2     0.001208838
TEFM_RI        CLK2     0
TES_AP         CLK2     1.30005E-09
TET2_AT        CLK2     3.57764E-06
TET2_RI        CLK2     2.6083E-05
TEX10_AT       CLK2     0.001625085
TEX264_ES      CLK2     7.84815E-05
TEX264_ES      CLK2     0.000377501
TEX264_AD      CLK2     5.68598E-12
TEX30_AP       CLK2     4.84256E-15
TFDP1_ES       CLK2     6.80829E-07
TFDP1_ES       CLK2     1.94152E-08
TFG_AD         CLK2     0.000100127
TGIF1_AP       CLK2     0
TGIF1_AD       CLK2     2.744E-09
THAP2_AT       CLK2     0.000325853
THAP4_AP       CLK2     0.000447079
THAP5_AP       CLK2     6.53639E-07
THAP6_AT       CLK2     0.012107137
THAP7_RI       CLK2     5.33796E-10
THNSL2_AP      CLK2     0.00243428
THOC5_ES       CLK2     0.003503707
THOP1_AP       CLK2     0
THRA_AT        CLK2     4.3942E-05
| Gene          | Gene Type | Value          |
|--------------|-----------|----------------|
| TMEM184A_AP  | CLK2      | 1.48076E-13    |
| TMEM185A_AT  | CLK2      | 0.001488299    |
| TMEM2_AP     | CLK2      | 8.3314E-05     |
| TMEM205_RI   | CLK2      | 3.46375E-12    |
| TMEM205_RI   | CLK2      | 1.06168E-17    |
| TMEM205_RI   | CLK2      | 0              |
| TMEM205_RI   | CLK2      | 0              |
| TMEM205_ES   | CLK2      | 0.0000936547   |
| TMEM205_ES   | CLK2      | 0.000992231    |
| TMEM205_AD   | CLK2      | 2.86256E-05    |
| TMEM205_AD   | CLK2      | 0.013780801    |
| TMEM219_AP   | CLK2      | 0              |
| TMEM223_AT   | CLK2      | 0              |
| TMEM230_AD   | CLK2      | 2.11109E-05    |
| TMEM230_AD   | CLK2      | 2.5146E-05     |
| TMEM234_RI   | CLK2      | 0.000125383    |
| TMEM234_RI   | CLK2      | 1.95707E-19    |
| TMEM234_ES   | CLK2      | 8.0739E-14     |
| TMEM242_AT   | CLK2      | 0.003203523    |
| TMEM243_AT   | CLK2      | 1.353E-06      |
| TMEM251_AD   | CLK2      | 0.001220319    |
| TMEM33_RI    | CLK2      | 0.002145505    |
| TMEM39B_AT   | CLK2      | 1.99501E-10    |
| TMEM43_ES    | CLK2      | 0.012770753    |
| TMEM44_ES    | CLK2      | 0              |
| TMEM55B_RI   | CLK2      | 0              |
| TMEM55B_AD   | CLK2      | 0.001003845    |
| TMEM59_AP    | CLK2      | 1.66993E-06    |
| TMEM59_AP    | CLK2      | 2.35325E-14    |
| TMEM63A_AP   | CLK2      | 0              |
| TMEM63A_ES   | CLK2      | 0              |
| TMEM67_AT    | CLK2      | 0.024981903    |
| TMEM68_AT    | CLK2      | 0.00014939     |
| TMEM87A_AP   | CLK2      | 0.000431014    |
| TMEM88_AA    | CLK2      | 1.87102E-06    |
| TMEM8B_AP    | CLK2      | 0.002505028    |
| TMEM8B_AT    | CLK2      | 0.002269043    |
| TMEM91_AP    | CLK2      | 0.000747386    |
| TMEM91_RI    | CLK2      | 9.84761E-08    |
| TMEM91_RI    | CLK2      | 0.000395297    |
| TMEM91_RI    | CLK2      | 0.000192527    |
| TMEM98_AT    | CLK2      | 9.0404E-06     |
| TMEM9B_AP    | CLK2      | 0.000136351    |
| TMPRSS2_AP   | CLK2      | 0.000148572    |
| TMSB4X_RI    | CLK2      | 6.98375E-06    |
| TMSB4X_RI    | CLK2      | 4.49907E-11    |
| TMTC4_ES     | CLK2      | 0.001498113    |
| TMUB1_AP     | CLK2      | 0.000557572    |
| TMUB2_AP     | CLK2      | 0.004307866    |
| TMUB2_AT     | CLK2      | 6.60142E-13    |
| TMUB2_ES     | CLK2      | 0.010986335    |
| TMUB2_AA     | CLK2      | 0.000496846    |
| Gene          | Symbol | CLK2 | Value   |
|--------------|--------|------|---------|
| TMUB2_ES     | CLK2   |      | 0.000438553 |
| TMUB2_ES     | CLK2   |      | 7.37721E-08  |
| TMUB2_AD     | CLK2   |      | 0.005319984  |
| TMUB2_AD     | CLK2   |      | 0.000606769  |
| TMX2_AA      | CLK2   |      | 4.66793E-06  |
| TNC_ES       | CLK2   |      | 0.000142687  |
| TNC_ES       | CLK2   |      | 0.01951567   |
| TNC_ES       | CLK2   |      | 0.013040864  |
| TNC_ES       | CLK2   |      | 0.006132991  |
| TNFAIP8_AP   | CLK2   |      | 2.15077E-08  |
| TNFRSF10B_RI| CLK2   |      | 3.22901E-07  |
| TNFRSF10C_AT | CLK2   |      | 2.32562E-05  |
| TNFRSF14_AA  | CLK2   |      | 0         |
| TNFRSF1A_AT  | CLK2   |      | 1.3433E-12  |
| TNFRSF25_RI  | CLK2   |      | 7.79344E-12  |
| TNFRSF25_AA  | CLK2   |      | 0.00019081  |
| TNFSF15_AP   | CLK2   |      | 1.64406E-17  |
| TNIK_AT      | CLK2   |      | 0.003142228  |
| TNIP1_AA     | CLK2   |      | 7.05882E-07  |
| TNK2_ES      | CLK2   |      | 4.60744E-06  |
| TNK2_AA      | CLK2   |      | 8.06047E-11  |
| TNK2_ES      | CLK2   |      | 1.21182E-11  |
| TOM1L2_ES    | CLK2   |      | 0         |
| TOP3B_RI     | CLK2   |      | 0         |
| TOP3B_RI     | CLK2   |      | 0         |
| TOP3B_AD     | CLK2   |      | 0.006942111  |
| TOP3B_RI     | CLK2   |      | 0.00308824  |
| TOP3B_ES     | CLK2   |      | 0         |
| TOPORS_ES    | CLK2   |      | 4.19831E-06  |
| TOR2A_RI     | CLK2   |      | 2.49899E-14  |
| TOR2A_RI     | CLK2   |      | 0         |
| TP53_AT      | CLK2   |      | 0.006323016  |
| TP53I3_ES    | CLK2   |      | 4.65564E-05  |
| TP53I3_RI    | CLK2   |      | 0         |
| TPD52_AP     | CLK2   |      | 3.25206E-12  |
| TPD52L1_ES   | CLK2   |      | 0.006841804  |
| TPGS2_AT     | CLK2   |      | 0.000715606  |
| TPM1_AD      | CLK2   |      | 0.003086446  |
| TPM1_ES      | CLK2   |      | 1.7642E-10   |
| TPM1_AA      | CLK2   |      | 7.27329E-17  |
| TPP3_AD      | CLK2   |      | 5.66666E-08  |
| TPRA1_AP     | CLK2   |      | 0.007892026  |
| TPT1_RI      | CLK2   |      | 0.006544489  |
| TPT1_AD      | CLK2   |      | 8.13302E-12  |
| TRA2A_ES     | CLK2   |      | 7.75934E-19  |
| TRA2B_ES     | CLK2   |      | 0.011981121  |
| TRABD_AP     | CLK2   |      | 0.001413781  |
| TRABD_RI     | CLK2   |      | 8.75897E-06  |
| TRABD2A_AT   | CLK2   |      | 0.008135729  |
| TRADD_AP     | CLK2   |      | 0         |
| TRAF1_AP     | CLK2   |      | 2.44692E-05  |
| TRAF4_AT     | CLK2   |      | 0         |
| TRAFD1_ES    | CLK2   |      | 7.54962E-05  |
| Variable          | Value     |
|-------------------|-----------|
| TRAFD1_AD         | CLK2      |
| TRAK1_AT          | CLK2      |
| TRAM1_RI          | CLK2      |
| TRAP1_AP          | CLK2      |
| TRAPPC1_RI        | CLK2      |
| TRAPPC2_RI        | CLK2      |
| TRAPPC2_ES        | CLK2      |
| TRAPPC4_AT        | CLK2      |
| TRDMT1_AT         | CLK2      |
| TREGX1_RI         | CLK2      |
| TREGX1_RI         | CLK2      |
| TREGX1_RI         | CLK2      |
| TRIM11_AP         | CLK2      |
| TRIM11_AT         | CLK2      |
| TRIM13_RI         | CLK2      |
| TRIM13_RI         | CLK2      |
| TRIM13_AD         | CLK2      |
| TRIM14_AT         | CLK2      |
| TRIM24_AD         | CLK2      |
| TRIM36_AT         | CLK2      |
| TRIM4_AT          | CLK2      |
| TRIM41_RI         | CLK2      |
| TRIM5_RI          | CLK2      |
| TRIM5_RI          | CLK2      |
| TRIM7_AT          | CLK2      |
| TRIM73_AP         | CLK2      |
| TRIM73_AT         | CLK2      |
| TRIO_AT           | CLK2      |
| TRIT1_AT          | CLK2      |
| TRMT13_AT         | CLK2      |
| TRMT2A_AA         | CLK2      |
| TRMT2B_AT         | CLK2      |
| TRMT2B_AD         | CLK2      |
| TRMT44_AT         | CLK2      |
| TRMU_AT           | CLK2      |
| TRMU_ES           | CLK2      |
| TRNT1_AT          | CLK2      |
| TRNT1_AD          | CLK2      |
| TROAP_AT          | CLK2      |
| TROAP_AT          | CLK2      |
| TROAP_RI          | CLK2      |
| TRPM6_AT          | CLK2      |
| TRPT1_ES          | CLK2      |
| TSC1_AT           | CLK2      |
| TSC2_ES           | CLK2      |
| TSC2_ES           | CLK2      |
| TSC22D1_AP        | CLK2      |
| TSEN2_AT          | CLK2      |
| TSG101_AT         | CLK2      |
| TSPAN17_RI        | CLK2      |
| TSPAN17_RI        | CLK2      |
| TSPAN17_AD        | CLK2      |
| TSPAN17_RI        | CLK2      |
| Gene Name   | Type  | Value          |
|------------|-------|----------------|
| TSPAN31_AT | CLK2  | 2.13716E-11    |
| TSPAN8_AP  | CLK2  | 9.60556E-05    |
| TSSC4_ES   | CLK2  | 4.87333E-07    |
| TST_RI     | CLK2  | 0.000107682    |
| TTC13_ME   | CLK2  | 0.001265805    |
| TTC14_AT   | CLK2  | 0.005401809    |
| TTC14_RI   | CLK2  | 0              |
| TTC17_AT   | CLK2  | 0.000282073    |
| TTC31_RI   | CLK2  | 0              |
| TTC31_RI   | CLK2  | 0              |
| TTC39C_AP  | CLK2  | 0.000224808    |
| TTC39C_AP  | CLK2  | 1.90451E-10    |
| TTC7A_AP   | CLK2  | 0.00281407     |
| TTC9C_AT   | CLK2  | 2.22517E-11    |
| TTC9C_ES   | CLK2  | 1.17714E-05    |
| TT11_ES    | CLK2  | 0.008650769    |
| TT12_RI    | CLK2  | 0.004580797    |
| TTLL11_AT  | CLK2  | 0.000940491    |
| TTLL12_AP  | CLK2  | 1.49965E-06    |
| TTLL3_AT   | CLK2  | 0.007132137    |
| TTLL3_RI   | CLK2  | 2.27163E-07    |
| TTLL5_AT   | CLK2  | 9.76853E-09    |
| TTYH3_AP   | CLK2  | 8.43794E-12    |
| TUBA4A_AP  | CLK2  | 4.47331E-10    |
| TUBB3_AP   | CLK2  | 4.5412E-05     |
| TUBB3_AP   | CLK2  | 1.89201E-06    |
| TUBGCP3_AT | CLK2  | 4.25974E-05    |
| TUBGCP5_AT | CLK2  | 0.000168972    |
| TVP23A_AT  | CLK2  | 4.84075E-06    |
| TVP23B_AP  | CLK2  | 1.11332E-09    |
| TVP23C_AT  | CLK2  | 3.36408E-05    |
| TWFI_AD    | CLK2  | 4.74545E-09    |
| TWSG1_AT   | CLK2  | 1.41469E-07    |
| TXN2_AP    | CLK2  | 2.64888E-10    |
| TXNDC17_AD | CLK2  | 1.24268E-05    |
| TXNDC9_AT  | CLK2  | 1.79828E-16    |
| TXNRD2_RI  | CLK2  | 0              |
| TYROBP_AA  | CLK2  | 5.3041E-07     |
| TYSND1_ES  | CLK2  | 0.014012144    |
| U2AF1L4_AA | CLK2  | 0.000177487    |
| U2AF2_AD   | CLK2  | 0.011037872    |
| UAP1_ES    | CLK2  | 0.00128986     |
| UAP1_ES    | CLK2  | 0.00949856     |
| UBA1_AP    | CLK2  | 1.56132E-17    |
| UBA52_AP   | CLK2  | 9.53508E-05    |
| UBA52_AD   | CLK2  | 0.001929689    |
| UBALD1_AP  | CLK2  | 1.18802E-13    |
| UBALD1_RI  | CLK2  | 4.03263E-07    |
| UBALD1_RI  | CLK2  | 0              |
| UBAP2_AP   | CLK2  | 2.76485E-12    |
| Gene        | Condition | Value     |
|-------------|-----------|-----------|
| USMG5_ES    | CLK2      | 0.001058366 |
| USP1_AP     | CLK2      | 0.012865425 |
| USP19_AT    | CLK2      | 5.60316E-10 |
| USP21_ES    | CLK2      | 3.49259E-12 |
| USP3_ES     | CLK2      | 5.35255E-05 |
| USP33_ES    | CLK2      | 1.09014E-06 |
| USP35_AP    | CLK2      | 4.77503E-16 |
| USP36_RI    | CLK2      | 0         |
| USP4_AT     | CLK2      | 1.7097E-15 |
| USP4_AT     | CLK2      | 1.4257E-16 |
| USP4_ES     | CLK2      | 0.002756145 |
| USP45_AT    | CLK2      | 3.26151E-05 |
| USP48_AP    | CLK2      | 3.11175E-06 |
| USP48_AT    | CLK2      | 8.19135E-06 |
| USP49_AT    | CLK2      | 6.01731E-05 |
| USP54_ES    | CLK2      | 0.000593923 |
| USP6NL_AT   | CLK2      | 3.44506E-15 |
| UVRAG_AP    | CLK2      | 3.30307E-05 |
| VAMP1_RI    | CLK2      | 5.34787E-11 |
| VAMP1_RI    | CLK2      | 0         |
| VAMP1_RI    | CLK2      | 0.000151127 |
| VAMP2_RI    | CLK2      | 0         |
| VAMP3_AP    | CLK2      | 0         |
| VEGFA_ES    | CLK2      | 9.90674E-07 |
| VEGFB_AA    | CLK2      | 0.001972326 |
| VEZT_ES     | CLK2      | 4.34357E-07 |
| VEZT_ES     | CLK2      | 0.008134884 |
| VIL1_AT     | CLK2      | 0         |
| VKORC1_ES   | CLK2      | 1.17501E-07 |
| VPS13C_AT   | CLK2      | 0.00010646 |
| VPS16_AP    | CLK2      | 2.17491E-16 |
| VPS16_RI    | CLK2      | 0         |
| VPS28_AP    | CLK2      | 0.000182058 |
| VPS28_RI    | CLK2      | 1.01978E-10 |
| VPS28_RI    | CLK2      | 0         |
| VPS28_RI    | CLK2      | 0         |
| VPS28_RI    | CLK2      | 3.71075E-07 |
| VPS28_RI    | CLK2      | 9.3649E-05 |
| VPS33A_AT   | CLK2      | 0.000162912 |
| VPS53_AT    | CLK2      | 0.001144366 |
| VPS8_AT     | CLK2      | 4.14656E-10 |
| VPS9D1_AP   | CLK2      | 1.86578E-06 |
| VTI1A_AT    | CLK2      | 0.000376701 |
| WAC_ES      | CLK2      | 0         |
| WARS2_AA    | CLK2      | 0.000168916 |
| WASH4P_RI   | CLK2      | 0         |
| WDPCP_AT    | CLK2      | 3.21379E-07 |
| WDR11_RI    | CLK2      | 0         |
| WDR13_RI    | CLK2      | 3.8997E-06 |
| WDR20_AT    | CLK2      | 0.016264638 |
| WDR24_ES    | CLK2      | 2.0442E-05 |
| WDR33_AT    | CLK2      | 3.51668E-09 |
| WDR53_ES    | CLK2      | 1.60737E-05 |
| Gene          | Type | Value  |
|--------------|------|--------|
| WDR55_AT     | CLK2 | 0.000108912 |
| WDR55_RI     | CLK2 | 1.85309E-20  |
| WDR55_RI     | CLK2 | 0        |
| WDR6_RI      | CLK2 | 0        |
| WDR6_AA      | CLK2 | 1.09021E-07 |
| WDR92_AT     | CLK2 | 5.39953E-06  |
| WHSC1L1_ES   | CLK2 | 9.93037E-11  |
| WIBG_AT      | CLK2 | 0.00365632  |
| WIPF1_AT     | CLK2 | 0.000217512  |
| WLS_AT       | CLK2 | 3.18304E-10  |
| WNK2_AT      | CLK2 | 0.001605959  |
| WNT2B_AP     | CLK2 | 1.47127E-10  |
| WRAP53_AP    | CLK2 | 0.000416687  |
| WRAP73_RI    | CLK2 | 2.0051E-10   |
| WRNIP1_AA    | CLK2 | 0.002196122  |
| WSBI_AT      | CLK2 | 1.7012E-06   |
| WSBI_ES      | CLK2 | 1.23676E-07  |
| WSB2_AP      | CLK2 | 0.001872953  |
| WWC1_AA      | CLK2 | 0.001978916  |
| WWP2_AT      | CLK2 | 0.002166779  |
| XAF1_AA      | CLK2 | 4.30252E-15  |
| XPNEP3_AT    | CLK2 | 1.10856E-06  |
| XPO1_AP      | CLK2 | 1.62966E-12  |
| XRCC3_AP     | CLK2 | 0.008668761  |
| XRCC3_AT     | CLK2 | 0.012435488  |
| XRRA1_AT     | CLK2 | 0.004805534  |
| XRRA1_RI     | CLK2 | 6.92041E-06  |
| YAF2_AT      | CLK2 | 1.92883E-07  |
| YBEY_AD      | CLK2 | 0.01318079   |
| YBX3_ES      | CLK2 | 3.49618E-11  |
| YDJC_AD      | CLK2 | 0.001565671  |
| YIF1B_AP     | CLK2 | 1.75021E-07  |
| YIF1B_AT     | CLK2 | 0.000656141  |
| YIPF2_AD     | CLK2 | 0.003465856  |
| YME1L1_RI    | CLK2 | 0.006916959  |
| YME1L1_AA    | CLK2 | 5.41063E-09  |
| YPEL3_AT     | CLK2 | 3.83894E-14  |
| YPEL3_AD     | CLK2 | 0        |
| YPEL3_RI     | CLK2 | 2.14035E-16  |
| YPEL5_ES     | CLK2 | 1.96415E-09  |
| YTHDC1_ES    | CLK2 | 0.004715695  |
| YWHAE_ES     | CLK2 | 0.006598649  |
| YWHAQ_AP     | CLK2 | 0.002323215  |
| YWHAZ_ES     | CLK2 | 6.29245E-05  |
| YY1AP1_AA    | CLK2 | 8.55461E-11  |
| ZADH2_AP     | CLK2 | 2.74659E-05  |
| ZBED1_AP     | CLK2 | 0.006267314  |
| ZBED5_AA     | CLK2 | 0.00076298   |
| ZBP1_AT      | CLK2 | 9.50228E-06  |
| ZBTB17_AA    | CLK2 | 0.000263631  |
| Gene Symbol | Domain | Value |
|-------------|--------|-------|
| ZBTB17_RI   | CLK2   | 2.07635E-17 |
| ZBTB45_AD   | CLK2   | 9.63672E-06 |
| ZBTB7B_AP   | CLK2   | 4.81416E-10 |
| ZBTB8OS_AT  | CLK2   | 0.005156529 |
| ZC3H14_ES   | CLK2   | 0.00231903  |
| ZC3H14_ES   | CLK2   | 0.008708361 |
| ZC3H18_ES   | CLK2   | 0.006684186 |
| ZC3H7A_AP   | CLK2   | 1.80286E-14 |
| ZCCHC10_AT  | CLK2   | 0.002580329 |
| ZCCHC4_AT   | CLK2   | 0.000246776 |
| ZCCHC8_AP   | CLK2   | 2.05221E-07 |
| ZCCHC8_RI   | CLK2   | 2.158E-14  |
| ZDHHC16_ME  | CLK2   | 6.70796E-07 |
| ZDHHC20_ES  | CLK2   | 0.000521498 |
| ZDHHC4_AA   | CLK2   | 0.000228418 |
| ZDHHC4_ES   | CLK2   | 0.001943301 |
| ZDHHC4_ES   | CLK2   | 2.8828E-05  |
| ZDHHC4_AA   | CLK2   | 0.001230137 |
| ZDHHC4_ES   | CLK2   | 0.009971912 |
| ZDHHC9_AP   | CLK2   | 4.48624E-07 |
| ZEB2_AT     | CLK2   | 0.000903463 |
| ZFAND2B_RI  | CLK2   | 0       |
| ZFAND2B_RI  | CLK2   | 0       |
| ZFAND2B_RI  | CLK2   | 0.000775425 |
| ZFAND2B_RI  | CLK2   | 0.007272346 |
| ZFAND4_AT   | CLK2   | 0.000108703 |
| ZFAND5_AP   | CLK2   | 0.002976996 |
| ZF36_AD     | CLK2   | 0       |
| ZFP41_AT    | CLK2   | 3.08156E-07 |
| ZFYVE26_AT  | CLK2   | 4.60565E-05 |
| ZFYVE27_AA  | CLK2   | 0.014174381 |
| ZFYVE27_ES  | CLK2   | 2.55775E-07 |
| ZFYVE28_AT  | CLK2   | 0.000288987 |
| ZMIZ1_ES    | CLK2   | 0.005183171 |
| ZMYM3_AT    | CLK2   | 2.70708E-05 |
| ZMYM5_AT    | CLK2   | 0.001920873 |
| ZMYND11_AP  | CLK2   | 0.007683632 |
| ZMYND11_AP  | CLK2   | 3.0423E-06  |
| ZMYND8_AD   | CLK2   | 0.000138979 |
| ZNF124_AT   | CLK2   | 2.97417E-05 |
| ZNF141_AT   | CLK2   | 1.07528E-12 |
| ZNF154_RI   | CLK2   | 1.99724E-11 |
| ZNF160_AP   | CLK2   | 0       |
| ZNF169_AT   | CLK2   | 0.00224908 |
| ZNF19 AT    | CLK2   | 0.000990998 |
| ZNF195_ES   | CLK2   | 1.70092E-05 |
| ZNF195_ES   | CLK2   | 4.35228E-06 |
| ZNF197_AT   | CLK2   | 5.52307E-05 |
| ZNF20_AT    | CLK2   | 5.99925E-05 |
| ZNF200_AD   | CLK2   | 1.66665E-09 |
| ZNF207_ES   | CLK2   | 0.000458711 |
| ZNF213_AA   | CLK2   | 7.25557E-09 |
| ZNF223_AT   | CLK2   | 0.000717998 |
| Gene ID    | Type   | Code | Value       |
|------------|--------|------|-------------|
| ZNF226_RI  | CLK2   |      | 0           |
| ZNF23_AD   | CLK2   |      | 0.000591127 |
| ZNF233_AT  | CLK2   |      | 3.41641E-08 |
| ZNF24_AA   | CLK2   |      | 8.30392E-11 |
| ZNF248_AT  | CLK2   |      | 0.0035811   |
| ZNF263_AT  | CLK2   |      | 0.000670871 |
| ZNF263_ES  | CLK2   |      | 0.001189407 |
| ZNF264_AT  | CLK2   |      | 1.25414E-06 |
| ZNF266_AP  | CLK2   |      | 4.16381E-13 |
| ZNF276_AP  | CLK2   |      | 3.24556E-07 |
| ZNF276_RI  | CLK2   |      | 0.000167935 |
| ZNF277_AT  | CLK2   |      | 2.2558E-05  |
| ZNF280D_AT | CLK2   |      | 0.000832479 |
| ZNF280D_AT | CLK2   |      | 1.27552E-09 |
| ZNF283_AT  | CLK2   |      | 0.015544794 |
| ZNF292_AT  | CLK2   |      | 0.003587633 |
| ZNF3_AP    | CLK2   |      | 2.44071E-15 |
| ZNF317_AA  | CLK2   |      | 1.86992E-13 |
| ZNF326_AT  | CLK2   |      | 4.70678E-08 |
| ZNF330_AT  | CLK2   |      | 6.55453E-11 |
| ZNF333_AT  | CLK2   |      | 1.84931E-06 |
| ZNF333_AT  | CLK2   |      | 2.02991E-15 |
| ZNF337_AP  | CLK2   |      | 7.73258E-12 |
| ZNF33A_AT  | CLK2   |      | 0.002019619 |
| ZNF347_AD  | CLK2   |      | 5.26104E-05 |
| ZNF384_AP  | CLK2   |      | 0.000201367 |
| ZNF384_AD  | CLK2   |      | 0.007028209 |
| ZNF396_AT  | CLK2   |      | 0.000515283 |
| ZNF397_AT  | CLK2   |      | 4.36329E-06 |
| ZNF410_AP  | CLK2   |      | 0.001681594 |
| ZNF419_AT  | CLK2   |      | 8.75772E-07 |
| ZNF429_AT  | CLK2   |      | 0.000228421 |
| ZNF430_AT  | CLK2   |      | 8.51478E-06 |
| ZNF431_AT  | CLK2   |      | 2.03352E-05 |
| ZNF44_AT   | CLK2   |      | 2.72432E-07 |
| ZNF44_AT   | CLK2   |      | 0.013750379 |
| ZNF468_ES  | CLK2   |      | 0.013092761 |
| ZNF493_AT  | CLK2   |      | 4.7107E-07  |
| ZNF506_ES  | CLK2   |      | 3.55414E-06 |
| ZNF506_ES  | CLK2   |      | 6.34454E-05 |
| ZNF511_AT  | CLK2   |      | 0.000279851 |
| ZNF511_RI  | CLK2   |      | 0           |
| ZNF512_AT  | CLK2   |      | 0.000910701 |
| ZNF519_AT  | CLK2   |      | 0.008316568 |
| ZNF519_AT  | CLK2   |      | 0.000647857 |
| ZNF524_AP  | CLK2   |      | 1.97986E-06 |
| ZNF525_AT  | CLK2   |      | 0.000775003 |
| ZNF544_AT  | CLK2   |      | 1.91364E-05 |
| ZNF548_AT  | CLK2   |      | 0.007741661 |
| ZNF549_AT  | CLK2   |      | 4.95901E-06 |
| ZNF550_ES  | CLK2   |      | 0.002160415 |
| ZNF558_AP  | CLK2   |      | 7.79735E-15 |
| ZNF561_AA  | CLK2   |      | 2.76388E-06 |
| Gene   | Event | Value         |
|--------|-------|---------------|
| ZNF568_AT | CLK2  | 3.49983E-05   |
| ZNF577_RI  | CLK2  | 0.000105084   |
| ZNF580_AP  | CLK2  | 5.66702E-05   |
| ZNF581_AP  | CLK2  | 6.34913E-06   |
| ZNF585A_AT | CLK2  | 2.92536E-15   |
| ZNF585A_AT | CLK2  | 0.000128251   |
| ZNF585B_AP | CLK2  | 3.10085E-05   |
| ZNF586_AT  | CLK2  | 8.87518E-05   |
| ZNF587_AP  | CLK2  | 0.000295072   |
| ZNF596_AD  | CLK2  | 0.004684469   |
| ZNF606_AT  | CLK2  | 4.37759E-15   |
| ZNF607_AT  | CLK2  | 0.014207014   |
| ZNF627_AT  | CLK2  | 1.11922E-10   |
| ZNF637_AT  | CLK2  | 4.73348E-09   |
| ZNF647_AT  | CLK2  | 2.80155E-07   |
| ZNF667_AT  | CLK2  | 0.000256318   |
| ZNF669_V    | CLK2  | 3.9052E-07    |
| ZNF692_RI  | CLK2  | 9.92643E-05   |
| ZNF692_RI  | CLK2  | 4.10437E-13   |
| ZNF692_AA  | CLK2  | 0.007184911   |
| ZNF696_AT  | CLK2  | 1.47834E-09   |
| ZNF726_AT  | CLK2  | 8.06793E-06   |
| ZNF737_AT  | CLK2  | 5.68345E-18   |
| ZNF746_AT  | CLK2  | 2.88041E-18   |
| ZNF746_AT  | CLK2  | 2.15236E-12   |
| ZNF746_AT  | CLK2  | 1.02438E-11   |
| ZNF746_AT  | CLK2  | 8.42906E-06   |
| ZNF746_AT  | CLK2  | 0.015393388   |
| ZNF746_AT  | CLK2  | 6.40074E-05   |
| ZNF746_AT  | CLK2  | 1.29275E-10   |
| ZNF746_AT  | CLK2  | 4.23454E-11   |
| ZNF746_AT  | CLK2  | 0              |
| ZNF746_AT  | CLK2  | 0              |
| ZNF746_AT  | CLK2  | 0              |
| ZNF746_AT  | CLK2  | 2.0221E-16    |
| ZNF746_AT  | CLK2  | 6.79836E-07   |
| ZNF746_AT  | CLK2  | 0.001029206   |
| ZNF746_AT  | CLK2  | 5.71154E-08   |
| ZNF746_AT  | CLK2  | 2.15505E-08   |
| ZNF746_AT  | CLK2  | 3.87789E-07   |
| ZNF746_AT  | CLK2  | 0.015616958   |
| ZNF746_AT  | CLK2  | 2.19634E-05   |
| ZNF746_AT  | CLK2  | 2.57017E-08   |
| ZNF746_AT  | CLK2  | 3.39987E-14   |
| ZNF746_AT  | CLK2  | 0.000232319   |
| ZNF746_AT  | CLK2  | 0              |
| ZNF746_AT  | CLK2  | 4.68473E-13   |
| ZNF746_AT  | CLK2  | 0.016553987   |
| ZNF746_AT  | CLK2  | 0              |
| Component  | Clock | Value      |
|------------|-------|------------|
| ZNRF1_AT   | CLK2  | 4.25845E-11|
| ZP3_AP     | CLK2  | 1.62244E-06|
| ZRSR2_AT   | CLK2  | 0.011670817|
| ZSCAN2_AT  | CLK2  | 0.013757349|
| ZSWIM7_RI  | CLK2  | 7.61331E-07|
| ZSWIM7_ES  | CLK2  | 1.33489E-07|
| ZSWIM7_ES  | CLK2  | 9.43485E-10|
| ZWINT_RI   | CLK2  | 0          |
| ZYX_AP     | CLK2  | 1.40273E-06|
The relationship between CLK2 expression and PSI value of differential splicing genes

| Correlation                        |
|------------------------------------|
| 0.369970524                        |
| 0.267851672                        |
| 0.33244672                         |
| -0.171443096                       |
| 0.110590417                        |
| 0.326934928                        |
| 0.321053074                        |
| 0.346340729                        |
| 0.162525744                        |
| -0.160561388                       |
| 0.42282689                         |
| 0.352629423                        |
| 0.155486749                        |
| 0.344347809                        |
| 0.274883994                        |
| 0.311169307                        |
| 0.135332618                        |
| 0.173687971                        |
| 0.166144093                        |
| 0.513855893                        |
| 0.43521022                         |
| 0.1197667                         |
| 0.136370316                        |
| 0.150544521                        |
| -0.31945589                       |
| 0.126767248                        |
| 0.443791605                        |
| 0.438405206                        |
| 0.240237037                        |
| 0.162682999                        |
| 0.459123278                        |
| 0.365252716                        |
| 0.47900625                        |
| 0.556170469                        |
| 0.140186109                        |
| 0.300490987                        |
| 0.128938844                        |
| 0.202020937                        |
| 0.188730843                        |
| 0.105468892                        |
| 0.165434067                        |
| 0.11295339                        |
| 0.20515388                         |
| 0.157525662                        |
| 0.145567396                        |
| 0.189081737                        |
| 0.296730986                        |
| -0.180751197                       |
| 0.29114418                         |
| 0.365344272                        |
0.126128225
0.123921286
0.271641486
0.142201047
0.201746375
0.134189503
0.336226815
0.272879699
0.296789902
0.227801353
0.39854863
0.195075608
0.105787214
0.362154613
0.287773722
-0.183592077
0.507301765
0.170799794
0.175199761
0.170125546
0.177018436
-0.156307054
0.322269466
0.326094832
-0.12481954
0.453368599
0.292952904
0.177880383
0.577858207
-0.260238538
0.164718965
0.20577943
0.116711836
-0.155138832
0.214030679
0.327615977
0.157123034
0.1179537
-0.108927338
0.119543674
0.229946723
0.386121652
0.121665971
0.136757509
-0.256881701
0.498381564
-0.213015437
0.298964576
0.229612283
0.19175783
0.443062122
0.178273046
0.368267688
0.190859115
0.167430824
0.138920167
0.139017781
0.11279534
0.461719713
0.249523406
0.198518154
0.208144916
-0.109597717
0.101209369
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0.436326704
0.533313796
0.168022197
0.205132522
0.218313556
0.231697224
0.114523227
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0.329338114
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0.118303963
0.136252914
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0.117431715
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0.231016078
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0.308070367
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0.205704607
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-0.213329326
0.144274492
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0.281985571
0.105031162
0.165350265
0.119720804
0.189472909
0.398293435
0.191388743
0.380589036
0.156019654
0.488396271
0.205503703
-0.147094191
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  0.374329933
-0.121072841
  0.149559018
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  0.149137981
  0.110383921
  0.344849306
  0.100325855
  0.110134276
  0.194521924
  0.21823303
  0.20326934
  0.143625761
  0.247090798
  0.355956399
  0.333722169
  0.37526059
  0.257440406
-0.100173352
  0.112641806
  0.137242795
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  0.211479799
  0.178592523
  0.348018295
  0.114003944
  0.111169431
  0.247319801
  0.149088656
  0.101977946
  0.319703722
  0.120805623
  0.249685375
  0.386316171
  0.169527443
  0.234606069
  0.377181472
  0.334223782
  0.235541812
  0.244360375
  0.196452445
-0.109845841
  0.185928335
  0.210907825
  0.185031169
  0.142884411
  0.12937179
  0.118508449
| 0.284480757 | 0.102032026 | -0.126676305 | -0.129412193 | -0.305311408 | 0.173718279 | -0.149932071 | 0.105569354 | 0.339608743 | 0.139011239 | 0.118842762 | -0.1567808 | 0.123655686 | -0.255072149 | -0.129689154 | 0.333042106 | 0.154238025 | 0.25172962 | 0.232509116 | 0.162421371 | -0.277717664 | -0.297106656 | 0.348672951 | 0.219838011 | 0.15767795 | 0.148284265 | 0.187669665 | 0.533138674 | 0.257499463 | 0.207373543 | 0.198252743 | 0.105396526 | 0.115585533 | -0.202179688 | 0.244428443 | 0.292586605 | -0.233774158 | 0.423179413 | 0.490995572 | 0.44149052 | 0.331039077 | 0.150829743 | 0.125695873 | -0.124983187 | 0.183957322 | 0.379023775 | 0.330585475 | 0.168858977 | 0.111238339 | 0.123779076 | 0.20601769 | -0.2123678 | 0.142256497 |
| 0.29248734 | 0.116470169 |
| 0.162673014 | 0.102618804 |
| 0.184246606 | -0.101624652 |
| 0.192027408 | 0.129240829 |
| 0.44546276 | 0.176010653 |
| 0.391840815 | 0.12132314 |
| 0.105646293 | 0.411954073 |
| 0.556502975 | 0.107769732 |
| -0.140836186 | 0.116080238 |
| 0.242681941 | 0.180030465 |
| 0.266301998 | 0.213870922 |
| 0.213681398 | -0.100525576 |
| 0.116645835 | 0.205548128 |
| 0.285303889 | 0.199704649 |
| 0.168542767 | 0.192455675 |
| 0.116276898 | 0.150879974 |
| 0.483326219 | 0.536481573 |
| 0.349500343 | 0.344034971 |
| 0.388257323 | 0.185230498 |
| 0.255878137 | 0.269093895 |
| -0.105166335 | 0.299389317 |
| 0.299389317 | 0.364473646 |
| 0.183871779 | 0.174175572 |
| 0.419410876 | 0.465954392 |
| 0.159612111 | 0.266676157 |
| 0.369238666 | 0.43431653 |
| -0.201944952 | 0.36001378 |
| 0.20597366 | 0.230849354 | 0.117447889 | 0.272839562 | 0.171322368 | 0.278251855 | 0.383344298 | 0.245792351 | 0.118757518 |
| -0.19340979 | 0.362045914 | -0.156064768 | 0.126929452 | 0.110527779 | 0.304232013 | 0.245524576 | 0.28943234 | 0.14602869 |
| 0.188839557 | 0.116692545 | 0.116632637 | 0.160218055 | 0.177262567 | 0.174757359 | 0.106638325 | 0.110295701 | 0.292783047 |
| 0.357551659 | 0.268064062 | 0.19961048 | 0.352768653 | 0.176882924 | 0.300076876 | 0.119266222 | -0.348762715 | 0.222012768 |
| 0.336295742 | 0.281980266 | -0.216297449 | -0.105667037 | 0.275232226 | 0.124236256 | 0.171574112 | 0.163843374 | 0.121145997 |
| 0.108124661 | 0.174927638 | 0.139539347 | 0.214883349 | 0.476424566 | 0.118917446 | 0.109560038 | 0.157052521 |
| Value          |
|---------------|
| 0.324896126   |
| 0.150586271   |
| 0.138681369   |
| 0.209182768   |
| 0.212052448   |
| 0.185043806   |
| 0.101407798   |
| 0.111057427   |
| 0.494023858   |
| 0.414810816   |
| 0.152482788   |
| 0.148136325   |
| 0.372166956   |
| -0.170662524  |
| 0.333045332   |
| 0.251991486   |
| -0.254373956  |
| -0.310144439  |
| -0.149644673  |
| 0.110411232   |
| 0.268088602   |
| 0.138851406   |
| 0.21494418    |
| 0.403034915   |
| 0.429357952   |
| 0.411691453   |
| 0.551095086   |
| 0.488509564   |
| 0.167650667   |
| 0.139970521   |
| 0.373303147   |
| 0.308585991   |
| 0.123450792   |
| 0.118681799   |
| 0.125021457   |
| 0.360902061   |
| 0.15884046    |
| 0.289204328   |
| -0.294259963  |
| 0.201647965   |
| 0.142260882   |
| 0.138973413   |
| 0.341423589   |
| 0.180424924   |
| 0.452923425   |
| 0.201051452   |
| 0.191496521   |
| -0.203080655  |
| 0.227276706   |
| 0.105487887   |
| -0.207944054  |
| -0.262208742  |
| 0.159339941   |
-0.186996708
-0.337531534
0.158209108
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0.370541623
0.158350209
0.12529826
-0.249446054
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0.146991558
0.18309173
0.269802021
0.348135714
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0.229957467
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0.173290993
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0.256066816
0.172889925
0.135325093
0.184695145
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0.118863726
0.25151221
0.119160345
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0.230445293
0.275160933
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0.238821717
0.126372706
-0.149699038
-0.208497557
0.356842291
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-0.189033973
0.235047034
0.188013564
0.173554178
0.419118212
|        |        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| -0.27568123 | 0.123614475 | 0.178107855 | 0.190475417 | 0.48240879 | 0.117773465 | -0.128679294 | 0.226053782 | 0.472907458 | 0.393241017 |
| 0.126780047 | 0.502014436 | 0.20354449 | 0.105744709 | 0.397822087 | 0.461070084 | 0.320111546 | -0.106070443 | 0.206288189 | -0.113041315 |
| 0.181622274 | 0.138266606 | 0.203442934 | 0.142402888 | 0.290514344 | 0.2307841 | 0.3373238 | 0.143177006 | 0.176764757 | 0.172792335 |
| 0.363835131 | 0.283213182 | 0.351484825 | -0.114410744 | 0.308155246 | 0.187895496 | 0.2046501 | 0.111162793 | 0.136410814 | 0.36654293 |
| 0.257196195 | 0.183887549 | 0.175901099 | 0.414814973 | 0.212466652 | 0.232643286 | 0.231595702 | 0.122742101 | -0.128874888 | 0.177864919 |
| 0.156022216 | 0.183876238 | 0.29847426 |
| Value 1 | Value 2 | Value 3 | Value 4 | Value 5 | Value 6 | Value 7 | Value 8 | Value 9 | Value 10 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 0.120973616 | 0.113616852 | 0.139631051 | 0.391858166 | -0.215968625 | 0.273444918 | 0.385117524 | 0.164123382 | 0.194665513 | 0.176593259 |
| 0.140516023 | 0.144286972 | 0.122660895 | 0.252585614 | -0.121968955 | 0.375030236 | 0.334311667 | 0.317105964 | 0.263580987 | 0.119931345 |
| 0.437189328 | 0.168216692 | 0.29055247 | 0.332354192 | 0.150386763 | 0.326246757 | 0.155148316 | 0.100343072 | 0.143944636 | 0.286791531 |
| -0.188473706 | 0.133749536 | 0.313737412 | 0.446200332 | 0.147718077 | 0.210261793 | 0.175414853 | 0.145658992 | 0.125638942 | 0.215439433 |
| 0.149369431 | 0.231610333 | -0.186852911 | -0.264673116 | 0.296517019 | 0.31260518 | 0.252873511 | -0.161966703 | 0.120708206 | 0.180030437 |
| -0.247034247 | -0.161201019 | 0.348102738 |
| 0.102371402 | 0.493032324 | 0.144353066 | -0.140429739 | 0.234016921 | 0.152002668 | 0.239851945 | 0.437340076 | 0.492818902 | 0.247528839 | 0.284500044 | 0.441430198 | 0.241633854 | 0.122368566 | 0.422282628 | 0.114010383 | -0.200610584 | 0.157783969 | 0.18052558 | 0.446016946 | 0.155529597 | 0.473920791 | 0.124305348 | 0.389656262 | -0.10246889 | -0.168142356 | -0.295008398 | 0.213823669 | 0.34249678 | 0.217800894 | 0.157554859 | 0.111468518 | -0.100852317 | 0.208947456 | 0.401886131 | 0.124643795 | 0.265167908 | 0.184371052 | 0.143604702 | 0.107960301 | 0.100700954 | 0.107197147 | 0.205292822 | 0.10927762 | 0.148337253 | 0.169793161 | -0.301721491 | 0.206598528 | 0.215036668 | 0.156341805 | 0.391949196 | 0.492355629 | 0.190131305 |
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| 0.122070473 | -0.247921942 |
| 0.336868054 | 0.252684438 |
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| 0.26889649  | -0.247514156 |
| 0.105733623 | 0.278017104 |
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| 0.25310115  | 0.126582317 |
| -0.20196466 | 0.155504078 |
| 0.219946536 | -0.105314243 |
| 0.111888641 | 0.100088413 |
| -0.122448249| 0.268743009 |
| 0.295231661 | 0.115389441 |
| 0.194526887 | 0.153625474 |
| 0.524278285 | 0.147171001 |
| 0.184633108 | 0.416703076 |
| 0.231036955 | 0.108725063 |
| 0.210694703 | 0.263668383 |
| 0.312252141 | -0.279669231 |
| 0.138140789 | 0.164026909 |
| 0.11488722 | 0.182806087 |
| 0.243462155 | 0.138633603 |
| 0.466680329 | 0.190164715 |
| 0.14964217 | 0.156161166 |
| 0.144232656 | 0.156953176 |
| 0.255873128 | 0.160075563 |
| 0.305662285 | -0.12036278 |
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| -0.304336761 |
| Value 1   | Value 2   | Value 3   | Value 4   | Value 5   |
|---------|---------|---------|---------|---------|
| -0.102955154 | 0.155707615 | 0.267041902 | 0.146525548 | 0.140210167 |
| 0.159951677 | 0.165819484 | 0.193368157 | 0.102100888 | 0.199070897 |
| 0.132173385 | 0.11527546 | 0.141385516 | 0.525177471 | 0.106943626 |
| 0.176313225 | 0.201525724 | 0.14288801 | 0.218902404 | 0.372153595 |
| 0.278240093 | 0.250704258 | 0.194026281 | 0.159495714 | 0.125185436 |
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| 0.210373392 | 0.119569415 | 0.204204514 | 0.467912514 | 0.495232139 |
| 0.300634682 | 0.487622554 | 0.22111398 | 0.208441691 | 0.342691366 |
| 0.401007045 | 0.22539824 | 0.207298908 | 0.169080566 | 0.209434908 |
| 0.216399807 | 0.148595771 | 0.439550298 | 0.118243434 | 0.243965799 |
| 0.114631164 | 0.146473788 |
| Value     | Value     | Value     | Value     |
|-----------|-----------|-----------|-----------|
| 0.350321745 | 0.333956265 | 0.459855289 | 0.205276254 |
| 0.204546356 | 0.101488476 | 0.412989159 | 0.37552917  |
| 0.455154937 | 0.262310895 | 0.440786341 | 0.552145287 |
| 0.211884096 | 0.226029342 | 0.402279529 | 0.319746425 |
| 0.292141419 | 0.166148808 | 0.207972358 | 0.169929549 |
| 0.155073015 | -0.118469987 | 0.300445999 | 0.11970372  |
| 0.271975516 | 0.418525653 | 0.163674694 | -0.136053517 |
| -0.184193927 | -0.184193927 | 0.179871147 | 0.327701112 |
| 0.16432288  | 0.234449247 | 0.149581935 | 0.206743574 |
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