

## PCR and sequencing primer design for RNA and DNA samples

| Gene     | SNP       | Forward                   | Reverse                   | Chro | Start     | End       |
|----------|-----------|---------------------------|---------------------------|------|-----------|-----------|
| STEAP    | rs4015375 | GACCTGTGCTTTTGCATTT       | GAAACCATTGGCAAGACTTTGTT   | 7    | 89402182  | 89402428  |
| ARPC5    | rs11755   | CCTAGCTCATTGCTAGTCAGGAAA  | AAGACTTCTTGCTCTGAACCCTG   | 1    | 180835382 | 180835660 |
| ARTS-1   | rs26653   | TGCTTTTGTAAAATCCGTGGAAA   | ATCATCCTGCATAGTCACCACCT   | 5    | 96213207  | 96213426  |
| CDK2     | rs2069398 | CGCTTCATGGAGAACTTCCAAA    | TAAAGAAGTCCCTCCCTGCTCTC   | 12   | 54647054  | 54647292  |
|          |           |                           | CTTGGTGCAGAAATTCAAAAACC   | 12   | 54647054  | 54648161  |
| CORO1C   | rs2111211 | AGGGTGCGATTGAATGAGTATTG   | GAGAGGCAGGGCAGGTTAGTT     | 12   | 107542267 | 107542399 |
| CXCL16   | rs1051007 | TCTTGTTTTGTCTCTCCGAATGAA  | GCTCAGAGAGGAGATGGAACTG    | 17   | 4843308   | 4843437   |
| ELL3     | rs2788    | TCAGCCAAGTCATTTTCAAGTCC   | GTTCATTTTAGTACATGGGTAACA  | 15   | 41780902  | 41781112  |
| EPHX2    | rs1042064 | CAGATCCTCATTAAGTGGCTGGA   | TGCCTGGAGAACTAATCACACCT   | 8    | 27423887  | 27424166  |
| FACL5    | rs8624    | ACAAATGTCTCCGATGCTCTTCT   | TCAGTGCTTGCTTCATTTACTGG   | 10   | 113852240 | 113852528 |
| FLJ12788 | rs2301984 | AATATTCACCAAGGGTTTGCATTT  | GAGATCATGCTTCTTACCCAGGA   | 2    | 74695467  | 74695728  |
| FVT1     | rs6810    | TTTTATTCAAGATGAGTTGGACCC  | TCCCCATGAATGAGAAATGAAAC   | 18   | 59147199  | 59147453  |
| FXYD2    | rs11999   | CAGCTGGGAAGCCAAGCAT       | GTCTCTGACGCCGGCTTTATTAT   | 11   | 117228523 | 117228709 |
| GATM     | rs1049518 | GGAACACAAAAGTTTATTAGAAT   | GATACACTGCATCTTTGGTCATC   | 15   | 43369386  | 43369559  |
| GCS1     | rs1063588 | CCTTTGGTCTCCCTGTTCTTCTA   | ACTGTTGGTGGCAAAAGTGT      | 2    | 74664884  | 74665030  |
| GEMIN6   | rs1056104 | ACGCTCCAAGGACTCTCTGTGT    | ATCCTGAACACGCGACAGAATAA   | 2    | 38983430  | 38983536  |
| GRN      | rs5848    | AGCCAGGGGTACCAAGTGTTT     | ACACACAAACACCCCTGTGGATA   | 17   | 42905247  | 42905598  |
| HADHB    | rs1056471 | AGATCCAGAAGAAGTGACCTGAA   | CCTCTTTCCCAACTGCAAAACC    | 2    | 26487358  | 26487655  |
| HPS4     | rs3747134 | GAGTCTTCAGGATGGGTTTGA     | GTTCCACTTCCCTTCCTTGC      | 22   | 25202455  | 25202713  |
| LGMN     | rs2236264 | TGTCTGCAATTGAACTCCAAGGT   | AATTATACCAGCCATTTGAACCTG  | 14   | 91189046  | 91189200  |
| LMAN1    | rs1127220 | CAGATCAAATTCGAGTAGCACCA   | AATATTCCAACACCATTCCACAGA  | 18   | 55171542  | 55171844  |
| MCM2     | rs893293  | ACAGCGATGAGGAGGACGAG      | CGCTCCTTGAAGACGTTGTG      | 3    | 128644648 | 128644888 |
| METAP1   | rs1238741 | CAGAAATGAAAAAGAAAAAGCCC   | TTAGAACTCTTCCCCATCCTCC    | 4    | 100441662 | 100441784 |
| MGC5576  | rs6823    | CAGATCTTTTCAGCTGTTCTTAGGG | GCCCCACATAGACTCTTGGTAAA   | 12   | 46648541  | 46648853  |
| MOX2     | rs1050572 | ACAGTGACTCTGTCTCACCCAAA   | CCCACCTGATTCTTAGGGTCTTT   | 3    | 113387431 | 113387510 |
| MTHFD2   | rs12196   | CCTCAGTTACACATTGCGCTTT    | GCCTCAAAGGACAGCTTAGGA     | 2    | 74416201  | 74416496  |
| OAS1     | rs2660    | TCATTTCTCTCATAGACCCAGCA   | GAGAATAGGTGGAATGAAGTGAGG  | 12   | 111769230 | 111769525 |
| PAX8     | rs1478    | GCTACTGAAGGGACCCAAGG      | CATGTGGTAATGGCAGGTTG      | 2    | 114070108 | 114070350 |
| PIK3R1   | rs3756668 | TGCAAGATGATACGGTATTTAGGC  | TTCATATTGAGCCGTTGAGACAA   | 5    | 67611844  | 67612103  |
| PISD     | rs8461    | CACCTGAGCTGTTTTCTGTTGG    | CTGCAGGAGAAATTCACAGCATC   | 22   | 30339159  | 30339785  |
| PPID     | rs2070629 | GCGGAGACGGACTCTGGA        | ATGTCCACGTCAAAGAAGACTCG   | 4    | 160221997 | 160222151 |
| PTPN12   | rs3750050 | ATCCCAGAATTGAGACACACCTC   | TCACAGCACCATCAGAGTTTCTT   | 7    | 76868586  | 76868899  |
| RAB7L1   | rs823137  | CTTCGAAATAGGTCTGCTCCTCA   | TTCAGGCCTCAGAGTTTAGTAAGAA | 1    | 202915516 | 202915831 |
| SEC61A1  | rs1042907 | ATTTGTCTGTGCACCTATTGGCT   | GGACTAAACACGGAGCTAGCAGA   | 3    | 129110040 | 129110127 |
| SNX6     | rs9264    | GCATTTATGCTCACTGGAAACAA   | GAGTATGACGAGTGCACGATGA    | 14   | 33022125  | 33022293  |
| STK33    | rs2289921 | CTTTTCACCAGTTTTGTGGTCCT   | CAGCCATTTGTTTAACTCTGCAAC  | 11   | 8460755   | 8461066   |

|              |                  |                           |                          |    |           |           |
|--------------|------------------|---------------------------|--------------------------|----|-----------|-----------|
| TOPK         | rs1052874        | TGTATGCACTAATGAAGACCCTAAA | AAGTCAGCATGAGCAGTATCAAA  | 8  | 27689482  | 27689809  |
| <b>TRAF3</b> | <b>rs1131877</b> | TGTTTAAGGATAATTGCTGCAAGAG | TTAAAGTGCCACATCCTACTGACC | 14 | 101332003 | 101332201 |
|              |                  |                           | GGTATTTACACGCCTTCTCCAC   | 14 | 101332003 | 101332850 |
| VPS39        | rs7086           | CCTGGATAGCAGGAACCTTGACCT  | AAAGCTTTCATCTCCAGCCTTCT  | 15 | 40167026  | 40167248  |
| WRB          | rs2837005        | TGCAAATGCTTGTGTAACCTTCCT  | GCACTTTGTCTTCTCACAGTCCA  | 21 | 39690094  | 39690309  |
| ZNF350       | rs2278414        | AAGGCTGAGATAGCCTGATAAACT  | GGCACTGGTCTAAGGAAACTGAA  | 19 | 57159517  | 57159828  |

Due to exon - intron boundaries CDK2 and TRAF3 required different reverse primers in genomic DNA