Supplement S1. Sequences of gene-specific primers and probes foκ qPCR (TaqMan)

Gene	Nucleotide sequences
AARS1 NM_001605.2	Probe: 5'-FAM-TATGTTCACTCGTCTGCCACCATCCCAT-BHQ1-3' Forward primer: 5'- CGGCAGCGATTTATAGATTTCTTCAAG-3' Reverse primer: 5'- GGTGAGATGGGTCAATTGTGTTCA-3'
BCAT2 *NM_001190.4*	Probe: 5'- FAM- CCTACTTCCCTGGAGGCTCCG-BHQ1-3' Forward primer: 5'- CGCTCCTGTTCGTCATTCTCT-3' Reverse primer: 5'- GGGCCCATAATTCCCACCTAAC-3'
HPRT1 NM_000194.2	Probe: 5'-FAM- TGGCCTCCCATCTCCTTCATCACATCTCGA -BHQ1-3' Forward primer: 5'- TCATTATGCTGAGGATTTGGAAAGGG -3' Reverse primer: 5'- GCACACAGAGGGCTACAATGTG -3'
POLR2A NM_000937.4	Probe: 5'-FAM-CCACCTGGTTGATGGAGTTCCGCACAGTC-BHQ1-3' Forward primer: 5'-AGACTGCTGAGACTGGATACATCC-3' Reverse primer: 5'-AGGCCGTCTTCGCCGTAG-3'
POLR2F NM_021974.3	Probe: 5'-FAM-CTTCATCCTCCTCCACATCATCAAAGTCGTCG-BHQ1-3' Forward primer: 5'-ATGTCAGACAACGAGGACAATTTTG-3' Reverse primer: 5'-TCTTCGGCATTCTCCAAGTCATC-3'
PSMA5 NM_001199772.1	Probe: 5'-FAM-AGCCATCAAGTCTTCACTCATCATCCTC-BHQ1-3' Forward primer: 5'-AGAAGTTTACCACAAGTCTATGAC-3' Reverse primer: 5'-CATTCAGCTTCTCCTCCATTAC-3'
PSMD6 NM_001271779.1	Probe: 5'-FAM- AGGCGGTTTCTCCTGTCCCAGTCTCCTC -BHQ1-3' Forward primer: 5'- AACACAGAAAAGGCCAAAAGCTTAAT -3' Reverse primer: 5'- AATAGCCACACAATAAAGACCCTGAT -3'
PSMD7 NM_002811.4	Probe: 5'-FAM-GCTTCTGTAGGCAGCCCTAGGTCCTTCGG-BHQ1-3' Forward primer: 5'-TGTCCTAATTCCGTATTGGTCATCATTG-3' Reverse primer: 5'-CGTGTTCAAATGTTTTCGAGGTTGG-3'
SARS1 NM_001330669.1	Probe: 5'-FAM-TCGCCACTCGCTGTCTGCCTTCACCA-BHQ1-3' Forward primer: 5'-CCCAGCCCTCATCCGAGAG-3' Reverse primer: 5'-TGTTCAAGTTGTCTGCCCGAAATC-3'
TBP NM_003194.5	Probe: 5'- FAM- GAAGGCCTTGTGCTCACCCACCAACAATT-BHQ1-3' Forward primer: 5'- GGAGCTGTGATGTGAAGTTTCCTA-3' Reverse primer: 5'- GGAGAACAATTCTGGGTTTGATCATT-3'
Aars NM_146217.4	Probe: 5'- FAM-ACCCCACTCTGCTCTTCGCCAACG-BHQ1-3' Forward primer: 5'-TCCACTCTTCCGCCACCAT-3' Reverse primer: 5'-CTGCTCAGCTTCGCCATAGG-3'
Bcat2 *NM_001243053.1*	Probe: 5'-FAM-CGGATACACTCCAACAGCTCCTGCTTGT-BHQ1-3' Forward primer: 5'-TCAACATGGACAGGATGCTACG-3' Reverse primer: 5'-CCAGTCTTTGTCTACTTCAATGAGC-3'
Hprt NM_013556.2	Probe: 5'- FAM- CCTGTATCCAACACTTCGAGAGGTCCTT- BHQ1-3' Forward primer: 5'-ACAGCCCCAAAATGGTTAAGGT-3' Reverse primer: 5'-CCAACAACAAACTTGTCTGGAATTTC-3'
Polr2a *NM_001291068.1*	Probe: 5'- FAM-TCACAGACATCCGCTTCAATTCATCCG- BHQ1-3' Forward primer: 5'- CACCATCAAGAGAGTGCAGTTC-3' Reverse primer: 5'- CCTCCGTTGTTTCTGGGTATTTG-3'
Polr2f *NM_027231.2*	Probe: 5'- VIC-CCTCAGCATTTTCCAAGTCGTCAAGTCC-BHQ2-3' Forward primer: 5'- TGTCAGACAACGAGGACAATTTCG-3' Reverse primer: 5'- TCGCTCACCAGATGGGAGAATC-3'
Psma5 *NM_011967.3*	Probe: 5'- FAM- GGTCCGAGTACGACAGGGGTGTGAATACT-3' Forward primer: 5'- GGTTGATTAGGGTGCTGCTTTC-3' Reverse primer: 5'- TCCACTTGAAATAATCTTCCTTCAGG-3'
Psmd6 NM_025550.2	Probe: 5'- FAM-AATCGTGGAGACCAACAGACCTGATAGCAA- BHQ1-3' Forward primer: 5'-GGTGTGGGTGTGGACTTCATT-3' Reverse primer: 5'-CTCCTTTCTTGATGGTTTCTTGATACTG-3'
Psmd7 *NM_010817.2*	Probe: 5'-FAM-AGTCCTAGGTCCTTTGGCTTCACGTCGA-BHQ1-3' Forward primer: 5'-CTGCACAAGAATGATATCGCCATC-3' Reverse primer: 5'-CTCCACTGAGATGTAGGCTTCG-3'

Sars *NM_011319.3*	Probe: 5'- FAM- CGTTCTACTTTGTTGTCTGCGTCCTCATCA- BHQ1-3' Forward primer: 5'-GCGAGATTGGGAACCTTCTG-3' Reverse primer: 5'-ATGGGAATACTTCTTCCTGACTGTA-3'
Tbp *NM_013684.3*	Probe: 5'- FAM-CACTCCTGCCACACCAGCTTCTGAGAGC-BHQ1-3' Forward primer: 5'-CCTTCACCAATGACTCCTATGACC-3' Reverse primer: 5'-CAGCCAAGATTCACGGTAGATACA-3'

*accession numbers in GenBank database;
FAM, fluorescent dye, **BHQ1,** fluorescent quencher.