**Supplementary table 1:** Primer sequences and volumes as used in this study. Primers were dissolved to a concentration of 100 μM.

|  |  |  |  |
| --- | --- | --- | --- |
| **Mix 1** |  |  |  |
| **Name** | **Sequence** | **Orientation:** | **Volume:** |
| SARS-CoV-2\_1\_LEFT | ACCAACCAACTTTCGATCTCTTGT | Fwd | 10μl |
| SARS-CoV-2\_1\_RIGHT | CGAGCATCCGAACGTTTGATGA | Rev. | 10μl |
| SARS-CoV-2\_3\_LEFT | ACGAGCTTGGCACTGATCCTTA | Fwd | 10μl |
| SARS-CoV-2\_3\_RIGHT | GGTTGCATTCATTTGGTGACGC | Rev. | 10μl |
| SARS-CoV-2\_5\_LEFT | TGTCCAGCATGTCACAATTCAGA | Fwd | 10μl |
| SARS-CoV-2\_5\_RIGHT | TACAACACGAGCAGCCTCTGAT | Rev. | 10μl |
| SARS-CoV-2\_7\_LEFT | TGGCACTGTTTATGAAAAACTCAAACC | Fwd | 10μl |
| SARS-CoV-2\_7\_RIGHT | TTTCGAGCAACATAAGCCCGTT | Rev. | 10μl |
| SARS-CoV-2\_9\_LEFT | TCACTTTTGAACTTGATGAAAGGATTGA | Fwd | 10μl |
| SARS-CoV-2\_9\_RIGHT | GATTGTCCTCACTGCCGTCTTG | Rev. | 10μl |
| SARS-CoV-2\_11\_LEFT | AAACATGGAGGAGGTGTTGCAG | Fwd | 20μl |
| SARS-CoV-2\_11\_RIGHT | TCTTGTTTTCTCTGTTCAACTGAAGGT | Rev. | 20μl |
| SARS-CoV-2\_13\_LEFT | GCTCCATATATAGTGGGTGATGTTGT | Fwd | 10μl |
| SARS-CoV-2\_13\_RIGHT | AGCCATGTGTTACATAGCCAAGTG | Rev. | 10μl |
| SARS-CoV-2\_15\_LEFT | CTATTCTGGACAATCTACACAACTAGGT | Fwd | 10μl |
| SARS-CoV-2\_15\_RIGHT | AGCATCTTGTAGAGCAGGTGGA | Rev. | 10μl |
| SARS-CoV-2\_17\_LEFT | GCTGTTATGTACATGGGCACACT | Fwd | 10μl |
| SARS-CoV-2\_17\_RIGHT | GCTTGCGTTTGGATATGGTTGG | Rev. | 10μl |
| SARS-CoV-2\_19\_LEFT | TGTTACATAAACCTATTGTTTGGCATGT | Fwd | 10μl |
| SARS-CoV-2\_19\_RIGHT | TCCCAAGGGACACTATTAACAGCA | Rev. | 10μl |
| SARS-CoV-2\_21\_LEFT | AGCAAAGAATACTGTTAAGAGTGTCGG | Fwd | 40μl |
| SARS-CoV-2\_21\_RIGHT | TCGGGGCCATTTGTACAAGATT | Rev. | 40μl |
| SARS-CoV-2\_23\_LEFT | ACTATTGTTAATGGTGTTAGAAGGTCCT | Fwd | 10μl |
| SARS-CoV-2\_23\_RIGHT | GCAACTTCCGCACTATCACCAA | Rev. | 10μl |
| SARS-CoV-2\_25\_LEFT | TGTCTTAAATTGTCACATCAATCTGACAT | Fwd | 20μl |
| SARS-CoV-2\_25\_RIGHT | TCACGAGTGACACCACCATCAA | Rev. | 20μl |
| SARS-CoV-2\_27\_LEFT | CTGGTTTGCCTGGCACGATATT | Fwd | 10μl |
| SARS-CoV-2\_27\_RIGHT | TCTACACCACAGAAAACTCCTGGT | Rev. | 10μl |
| SARS-CoV-2\_29\_LEFT | ACAGTCATGTAGTTGCCTTTAATACTTTAC | Fwd | 10μl |
| SARS-CoV-2\_29\_RIGHT | GAGCCTTTGCGAGATGACAACA | Rev. | 10μl |
| SARS-CoV-2\_31\_LEFT | AACGGTCTTTGGCTTGATGACG | Fwd | 10μl |
| SARS-CoV-2\_31\_RIGHT | ACCTTCTAAGTCTGTGCCAGCA | Rev. | 10μl |
| SARS-CoV-2\_33\_LEFT | TGTGGCTATGAAGTACAATTATGAACCT | Fwd | 10μl |
| SARS-CoV-2\_33\_RIGHT | AGCTACAGTGGCAAGAGAAGGT | Rev. | 10μl |
| SARS-CoV-2\_35\_LEFT | TGGTGCTAGGAGAGTGTGGACA | Fwd | 10μl |
| SARS-CoV-2\_35\_RIGHT | GGCTACTTTGATACAAGGTTTGCC | Rev. | 10μl |
| SARS-CoV-2\_37\_LEFT | CTTTCCATGCAGGGTGCTGTAG | Fwd | 10μl |
| SARS-CoV-2\_37\_RIGHT | GTTTGGCTGCTGTTGTAAGAGGT | Rev. | 10μl |
| SARS-CoV-2\_39\_LEFT | ACAATTCACCTAATTTAGCATGGCCT | Fwd | 10μl |
| SARS-CoV-2\_39\_RIGHT | TTGGTTGTCCCCCACTAGCTAG | Rev. | 10μl |
| SARS-CoV-2\_41\_LEFT | AGTATGTACAAATACCTACAACTTGTGCT | Fwd | 10μl |
| SARS-CoV-2\_41\_RIGHT | AGCATAGACGAGGTCTGCCATT | Rev. | 10μl |
| SARS-CoV-2\_43\_LEFT | TGGTATTGTTGGTGTACTGACATTAGA | Fwd | 10μl |
| SARS-CoV-2\_43\_RIGHT | AGGGTCAGCAGCATACACAAGT | Rev. | 10μl |
| SARS-CoV-2\_45\_LEFT | CACTTCTTCTTTGCTCAGGATGGT | Fwd | 10μl |
| SARS-CoV-2\_45\_RIGHT | AACATGTTGTGCCAACCACCAT | Rev. | 10μl |
| SARS-CoV-2\_47\_LEFT | TGTAGCTTGTCACACCGTTTCT | Fwd | 10μl |
| SARS-CoV-2\_47\_RIGHT | AGTAAGGTCAGTCTCAGTCCAACA | Rev. | 10μl |
| SARS-CoV-2\_49\_LEFT | AGGAGTATGCTGATGTCTTTCATTTGT | Fwd | 10μl |
| SARS-CoV-2\_49\_RIGHT | CACCAGCATTTGTCCAGTCACA | Rev. | 10μl |
| SARS-CoV-2\_51\_LEFT | TCTTTCATGGGAAGTTGGTAAACCT | Fwd | 20μl |
| SARS-CoV-2\_51\_RIGHT | TCACATAGTGCATCAACAGCGG | Rev. | 20μl |
| SARS-CoV-2\_53\_LEFT | TGTCAATGCCAGATTAYGTGCT | Fwd | 10μl |
| SARS-CoV-2\_53\_RIGHT | CAAGAGTGAGCTGTTTCAGTGGT | Rev. | 10μl |
| SARS-CoV-2\_55\_LEFT | TGTTGACACTAAATTCAAAACTGAAGGT | Fwd | 40μl |
| SARS-CoV-2\_55\_RIGHT | TGTCAACTCAAAGCCATGTGCC | Rev. | 40μl |
| SARS-CoV-2\_57\_LEFT | CGTTTATGATTGATGTTCAACAATGGGG | Fwd | 10μl |
| SARS-CoV-2\_57\_RIGHT | ACAACCAGGCAAGTTAAGGTTAGA | Rev. | 10μl |
| SARS-CoV-2\_59\_LEFT | AGTCTCATGGAAAACAAGTAGTGTCA | Fwd | 10μl |
| SARS-CoV-2\_59\_RIGHT | ATTAGCAGCAATGTCCACACCC | Rev. | 10μl |
| SARS-CoV-2\_61\_LEFT | AGAAATGCCCGTAATGGTGTTCT | Fwd | 10μl |
| SARS-CoV-2\_61\_RIGHT | TGAACCTGTTTGCGCATCTGTT | Rev. | 10μl |
| SARS-CoV-2\_63\_LEFT | TGGCCATGTAGAAACATTTTACCCA | Fwd | 10μl |
| SARS-CoV-2\_63\_RIGHT | ATAGCCACGGAACCTCCAAGAG | Rev. | 10μl |
| SARS-CoV-2\_65\_LEFT | GGCAAACCACGCGAACAAATAR | Fwd | 10μl |
| SARS-CoV-2\_65\_RIGHT | ACCTCTTAGTACCATTGGTCCCA | Rev. | 10μl |
| SARS-CoV-2\_67\_Lalt | ACGCTACTAATGTTGTTATTAAAGTCTGTG | Fwd | 10μl |
| SARS-CoV-2\_67\_RIGHT | GGTCAAGTGCACAGTCTACAGC | Rev. | 10μl |
| SARS-CoV-2\_69\_LEFT | ACTGTGTTGCTGATTATTCTGTCCT | Fwd | 20μl |
| SARS-CoV-2\_69\_RIGHT | TAGGTCCACAAACAGTTGCTGG | Rev. | 20μl |
| SARS-CoV-2\_71\_LEFT | ACTTCTAACCAGGTTGCTGTTCTT | Fwd | 10μl |
| SARS-CoV-2\_71\_RIGHT | CAGCTATTCCAGTTAAAGCACGGT | Rev. | 10μl |
| SARS-CoV-2\_73\_LEFT | CTTGCAGATGCTGGCTTCATCA | Fwd | 10μl |
| SARS-CoV-2\_73\_RIGHT | TGCACTTCAGCCTCAACTTTGT | Rev. | 10μl |
| SARS-CoV-2\_75\_LEFT | CTTCCCTCAGTCAGCACCTCAT | Fwd | 10μl |
| SARS-CoV-2\_75\_RIGHT | CAAGCCAGCTATAAAACCTAGCCA | Rev. | 10μl |
| SARS-CoV-2\_77\_LEFT | TGGAACTGTAACTTTGAAGCAAGGT | Fwd | 20μl |
| SARS-CoV-2\_77\_RIGHT | GACTTGTTGTGCCATCACCTGA | Rev. | 20μl |
| SARS-CoV-2\_79\_LEFT | GGTGTTGAACATGTTACCTTCTTCAT | Fwd | 10μl |
| SARS-CoV-2\_79\_RIGHT | GTACCGTTGGAATCTGCCATGG | Rev. | 10μl |
| SARS-CoV-2\_81\_LEFT | CTTGTTTTGTGCTTGCTGCTGT | Fwd | 10μl |
| SARS-CoV-2\_81\_RIGHT | ACTGCTACTGGAATGGTCTGTGT | Rev. | 10μl |
| SARS-CoV-2\_83\_LEFT | TGAAGAGCAACCAATGGAGATTGA | Fwd | 10μl |
| SARS-CoV-2\_83\_RIGHT | TGTTCGTTTAGGCGTGACAAGT | Rev. | 10μl |
| SARS-CoV-2\_85\_LEFT | AGCACCTTTAATTGAATTGTGCGTG | Fwd | 10μl |
| SARS-CoV-2\_85\_RIGHT | CGTCTGGTAGCTCTTCGGTAGT | Rev. | 10μl |
| SARS-CoV-2\_87\_LEFT | AAAAGATCACATTGGCACCCGC | Fwd | 10μl |
| SARS-CoV-2\_87\_RIGHT | CGACATTCCGAAGAACGCTGAA | Rev. | 10μl |
| SARS-CoV-2\_89\_LEFT | AGGCTGATGAAACTCAAGCCTT | Fwd | 20μl |
| SARS-CoV-2\_89\_RIGHT | AAAATCACATGGGGGGATAGCACTACT | Rev. | 20μl |

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| **Mix 2** |  |  |  |
| **Name** | **Sequence** | **Orientation:** | **Volume:** |
| SARS-CoV-2\_2\_LEFT | TCGTACGTGGCTTTGGAGACTC | Fwd | 10μl |
| SARS-CoV-2\_2\_RIGHT | ATGCACTCAAGAGGGTAGCCAT | Rev. | 10μl |
| SARS-CoV-2\_4\_LEFT | ACACCTTCAATGGGGAATGTCC | Fwd | 10μl |
| SARS-CoV-2\_4\_RIGHT | AGGCACACTTGTTATGGCAACC | Rev. | 10μl |
| SARS-CoV-2\_6\_LEFT | TGTGAAAGGTTTGGATTATAAAGCATTCA | Fwd | 10μl |
| SARS-CoV-2\_6\_RIGHT | ACAGGTGACAATTTGTCCACCG | Rev. | 10μl |
| SARS-CoV-2\_8\_LEFT | AGGGAGAAACACTTCCCACAGA | Fwd | 20μl |
| SARS-CoV-2\_8\_RIGHT | AATCAATGCCCAGTGGTGTAAGT | Rev. | 20μl |
| SARS-CoV-2\_10\_LEFT | TGAGTATGGTACTGAAGATGATTACCAAG | Fwd | 20μl |
| SARS-CoV-2\_10\_RIGHT | GCCGACAACATGAAGACAGTGT | Rev. | 20μl |
| SARS-CoV-2\_12\_LEFT | ACTGTTCGCACGAAYGTCTACT | Fwd | 30μl |
| SARS-CoV-2\_12\_RIGHT | CCTGACCCGGGTAAGTGGTTAT | Rev. | 30μl |
| SARS-CoV-2\_14\_LEFT | GTTTCAACTATACAGCGTAAATATAAGGGT | Fwd | 40μl |
| SARS-CoV-2\_14\_RIGHT | CGTGTGGAGGTTAATGTTGTCTACT | Rev. | 40μl |
| SARS-CoV-2\_16\_LEFT | AGGTACATGTCAGCATTAAATCACACT | Fwd | 10μl |
| SARS-CoV-2\_16\_RIGHT | AGTTCATACTGAGCAGGTGGTG | Rev. | 10μl |
| SARS-CoV-2\_18\_LEFT | CAGTTACACAACAACCATAAAACCAGT | Fwd | 10μl |
| SARS-CoV-2\_18\_RIGHT | GATTATCCATTCCCTGCGCGCGTC | Rev. | 10μl |
| SARS-CoV-2\_20\_LEFT | TACAGAAGAGGTTGGCCACACACA | Fwd | 10μl |
| SARS-CoV-2\_20\_RIGHT | AACACYTAAAGCAGCGGTTGAG | Rev. | 10μl |
| SARS-CoV-2\_22\_LEFT | AGTTGCAGAGTGGTTTTTGGCA | Fwd | 10μl |
| SARS-CoV-2\_22\_RIGHT | ACTGTAGTGACAAGTCTCGCA | Rev. | 10μl |
| SARS-CoV-2\_24\_LEFT | AGCTAATAACACTAAAGGTTCATTGCCT | Fwd | 10μl |
| SARS-CoV-2\_24\_RIGHT | TGACTTTTTGCTACCTGCGCAT | Rev. | 10μl |
| SARS-CoV-2\_26\_LEFT | TGGTTGAAGCAGTTAATTAAAGTTACACT | Fwd | 10μl |
| SARS-CoV-2\_26\_RIGHT | TTCAGCAGCCAAAACACAAGCT | Rev. | 10μl |
| SARS-CoV-2\_28\_LEFT | CCTTGAAGGTTCTGTTAGAGTGGT | Fwd | 20μl |
| SARS-CoV-2\_28\_RIGHT | AGGTGTGAACATAACCATCCACTG | Rev. | 20μl |
| SARS-CoV-2\_30\_LEFT | AGAAATGTATCTAAAGTTGCGTAGTGATG | Fwd | 10μl |
| SARS-CoV-2\_30\_RIGHT | CCCTGAGTTGAACATTACCAGCC | Rev. | 10μl |
| SARS-CoV-2\_32\_LEFT | TACCAATGTGCTATGAGGCCCA | Fwd | 10μl |
| SARS-CoV-2\_32\_RIGHT | GCACTACCCAATATGGTACGTCC | Rev. | 10μl |
| SARS-CoV-2\_34\_LEFT | GTCCAGAGTACTCAATGGTCTTTGT | Fwd | 10μl |
| SARS-CoV-2\_34\_RIGHT | ACCTCTGGCCAAAAACATGACA | Rev. | 10μl |
| SARS-CoV-2\_36\_LEFT | CGCTACTTTAGACTGACTCTTGGTG | Fwd | 10μl |
| SARS-CoV-2\_36\_RIGHT | ATCACCATTAGCAACAGCCTGC | Rev. | 10μl |
| SARS-CoV-2\_38\_LEFT | AGATCTGAGGACAAGAGGGCAA | Fwd | 10μl |
| SARS-CoV-2\_38\_RIGHT | TGTCATCAGTGCAAGCAGTTTGT | Rev. | 10μl |
| SARS-CoV-2\_40\_LEFT | GGTATGGTACTTGGTAGTTTAGCTGC | Fwd | 10μl |
| SARS-CoV-2\_40\_RIGHT | ACGATTGTGCATCAGCTGACTG | Rev. | 10μl |
| SARS-CoV-2\_42\_LEFT | TCTCTAACTACCAACATGAAGAAACAATTT | Fwd | 40μl |
| SARS-CoV-2\_42\_RIGHT | GCAGTTAAAGCCCTGGTCAAGG | Rev. | 40μl |
| SARS-CoV-2\_44\_LEFT | TGGACCACTAGTGAGAAAAATATTTGTTG | Fwd | 10μl |
| SARS-CoV-2\_44\_RIGHT | ACAGCCACCATCGTAACAATCA | Rev. | 10μl |
| SARS-CoV-2\_46\_LEFT | TGCAAAGAATAGAGCTCGCACC | Fwd | 10μl |
| SARS-CoV-2\_46\_RIGHT | TGCATTAACATTGGCCGTGACA | Rev. | 10μl |
| SARS-CoV-2\_48\_LEFT | CTCTCTGACGATGCTGTTGTGT | Fwd | 10μl |
| SARS-CoV-2\_48\_RIGHT | TGCGGTGTGTACATAGCCTCAT | Rev. | 10μl |
| SARS-CoV-2\_50\_LEFT | AGGAGGTATGAGCTATTATTGTAAATCACA | Fwd | 10μl |
| SARS-CoV-2\_50\_RIGHT | GTTGTACCTCGGTAAACAACAGCA | Rev. | 10μl |
| SARS-CoV-2\_52\_LEFT | TGCAAATTATCAAAAGGTTGGTATGCA | Fwd | 10μl |
| SARS-CoV-2\_52\_RIGHT | CCGAGGAACATGTCTGGACCTA | Rev. | 10μl |
| SARS-CoV-2\_54\_LEFT | GCTTCTTCGCGGGTGATAAACA | Fwd | 10μl |
| SARS-CoV-2\_54\_RIGHT | TTCGCGGGTGATAAACATGTTAGG | Rev. | 10μl |
| SARS-CoV-2\_56\_LEFT | ACCACCGCCTGGAGATCAATTT | Fwd | 10μl |
| SARS-CoV-2\_56\_RIGHT | CGCTTAACAAAGCACTCGTGGA | Rev. | 10μl |
| SARS-CoV-2\_58\_LEFT | GCCTTGTAGTGACAAAGCTTATAAAATAGA | Fwd | 10μl |
| SARS-CoV-2\_58\_RIGHT | AAACCCACAAGCTAAAGCCAGC | Rev. | 10μl |
| SARS-CoV-2\_60\_LEFT | CAGGGTGAAGTACCAGTTTCTATCATT | Fwd | 10μl |
| SARS-CoV-2\_60\_RIGHT | GAGTAAAGTAAGTTTCAGGTAATTGTTGG | Rev. | 10μl |
| SARS-CoV-2\_62\_LEFT | TCGTTTATGGAGATTTTAGTCATAGTCAGT | Fwd | 10μl |
| SARS-CoV-2\_62\_RIGHT | TTGCGACATTCATCATTATGCCTTT | Rev. | 10μl |
| SARS-CoV-2\_64\_LEFT | CTGTACATACAGCTAATAAATGGGATCTCA | Fwd | 10μl |
| SARS-CoV-2\_64\_RIGHT | TTTGACCTTCTTTTAAAGACATAACAGCA | Rev. | 10μl |
| SARS-CoV-2\_66\_LEFT | ACCCCCTGCATACACTAATTCTYT | Fwd | 10μl |
| SARS-CoV-2\_66\_RIGHT | ACCCTGTTTTCCTTCAAGGTCC | Rev. | 10μl |
| SARS-CoV-2\_68\_LEFT | ACATAGAAGTTATTTGACTCCTGGTGA | Fwd | 10μl |
| SARS-CoV-2\_68\_RIGHT | CCCTGGAGCGATTTGTCTGACT | Rev. | 10μl |
| SARS-CoV-2\_70\_LEFT | CCGGTAGCACACCTTGTAATGG | Fwd | 10μl |
| SARS-CoV-2\_70\_RIGHT | CCCCTATTAAACAGCCTGCACG | Rev. | 10μl |
| SARS-CoV-2\_72\_LEFT | TGTTACCACAGAAATTCTACCAGTGT | Fwd | 10μl |
| SARS-CoV-2\_72\_RIGHT | TACCCGCTAACAGTGCAGAAGT | Rev. | 10μl |
| SARS-CoV-2\_74\_LEFT | GTGCACTTGGAAAACTTCAAGATGT | Fwd | 10μl |
| SARS-CoV-2\_74\_RIGHT | TGTTACAAACCAGTGTGTGCCA | Rev. | 10μl |
| SARS-CoV-2\_76\_LEFT | GTTGATTTAGGTGACATCTCTGGCA | Fwd | 10μl |
| SARS-CoV-2\_76\_RIGHT | AGCGCTCTGAAAAACAGCAAGA | Rev. | 10μl |
| SARS-CoV-2\_78\_LEFT | CTTTGGCTTTGCTGGAAATGCC | Fwd | 10μl |
| SARS-CoV-2\_78\_RIGHT | GTGCTTACAAAGGCACGCTAGT | Rev. | 10μl |
| SARS-CoV-2\_80\_LEFT | ACGTGAGTCTTGTAAAACCTTCTTTTT | Fwd | 10μl |
| SARS-CoV-2\_80\_RIGHT | AATGACCACATGGAACGCGTAC | Rev. | 10μl |
| SARS-CoV-2\_82\_LEFT | GGACCTGCCTAAAGAAATCACTGT | Fwd | 10μl |
| SARS-CoV-2\_82\_RIGHT | TGCCCTCGTATGTTCCAGAAGA | Rev. | 10μl |
| SARS-CoV-2\_84\_Lalt | CTTCACACTCAAAAGAAAGAYAGAATGA | Fwd | 20μl |
| SARS-CoV-2\_84\_RIGHT | ACGAACAACGCACTACAAGACT | Rev. | 20μl |
| SARS-CoV-2\_86\_LEFT | GGCCCCAAGGTTTACCCAATAA | Fwd | 10μl |
| SARS-CoV-2\_86\_RIGHT | CTGTTGCGACTACGTGATGAGG | Rev. | 10μl |
| SARS-CoV-2\_88\_LEFT | TAACACAAGCTTTCGGCAGACG | Fwd | 10μl |
| SARS-CoV-2\_88\_RIGHT | GTGGTCTGCATGAGTTTAGGCC | Rev. | 10μl |