Supplementary Tables

Table 1: Sequences of the antisense oligonucleotides (ASOs) targeting the 2,924 nt segment of SARS-CoV-2 RNA.

Group ASO Sequence 1 GGCAGCACAAGACATCTGTCGTAGTGCAACAGGACTAAGC-1 **TCATTATT** 2 TGTAGTAAGCTAACGCATTGTCATCAGTGCAAGCAGTTTGT-**GTAGTACC** 3 TGTAAATCGGATAACAGTGCAAGTACAAACCTACCTCCCTT-**TGTTGTGT** 4 GATAGTACCAGTTCCATCACTCTTAGGGAATCTAGCCCATT-**TCAAATCC** 5 CTTTAGGTGTCTGTAACAAACCTACAAGGTGGTTCCAGT-**TCTGTATA** 2 1 ATACCTCTATTTAGGTTGTTTAATCCTTTAATAAAGTATAAA-**TACTTCACTTTAGGAC** 2 CACTTCTGTTGCATTACCAGCTTGTAGACGTACTGTGGCAG-CTAAACTACCAAGTACC 3 AAGCTTTAGCAGCATCTACAGCAAAAGCACAGAAAGATAA-**TACAGTTGAATTGGCAGG** 4 CACAACATCTTAACACAATTAGTGATTGGTTGTCCCCCACT-**AGCTAGATAATCTTTGT** 3 1 GATCCATATTGGCTTCCGGTGTAACTGTTATTGCCTGACCA-

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2 ATGATCTATGTGGCAACGGCAGTACAGACACACGATGCA-

GTACCAGTGTGTA

CCACCAAAGGATTCTT

Table 1: Sequences of the antisense oligonucleotides (ASOs) targeting the 2,924 nt segment of SARS-CoV-2 RNA. (Continued)

- 3 GTTGTAGGTATTTGTACATACTTACCTTTTAAGTCACAAAAT-CCTTTAGGATTTGG
- 4 CCGCAGACGGTACAGACTGTGTTTTTAAGTGTAAAACCCAC-AGGGTCATTAGCACAA
- 4 1 CTGAAGCATGGGTTCGCGGAGTTGATCACAACTACAGCCATAACCTTTCCACATA
 - 2 AAGACGGCTGCACTTACACCGCAAACCCGTTTAAAAACG-ATTGTGCATCAGCTGA
 - 3 TAGATGTCAAAAGCCCTGTATACGACATCAGTACTAGTGCC-TGTGCCGCACGGTGT
 - 4 GGAAGCGACAACAATTAGTTTTTAGGAATTTAGCAAAACCA-GCTACTTTATCATTG
- 5 1 TGTCTCTTAACTACAAAGTAAGAATCAATTAAATTGTCATCTTCGTCCTTTTCTT
 - 2 GACAATCCTTAAGTAAATTATAAATTGTTTCTTCATGTTGGT-AGTTAGAGAAAGTG
 - 3 GGTACCATGTCACCGTCTATTCTAAACTTAAAGAAGTCATG-TTTAGCAACAGCTG
 - 4 AAGCATAGACGAGGTCTGCCATTGTGTATTTAGTAAGACGT-TGACGTGATATATGT
- 6 1 TGTATGTGACAAGTATTTCTTTTAATGTGTCACAATTACCTT-CATCAAAATGCCTTA
 - 2 GGTTTTCTACAAAATCATACCAGTCCTTTTTATTGAAATAAT-CATCATCACAACAAT

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Table 1: Sequences of the antisense oligonucleotides (ASOs) targeting the 2,924 nt segment of SARS-CoV-2 RNA. (Continued)

- 3 TTAACAAAGCTTGGCGTACACGTTCACCTAAGTTGGCGTAT-ACGCGTAATATATCTG
- 4 ATGTCAGTACACCAACAATACCAGCATTTCGCATGGCATCA-CAGAATTGTACTGTTT
- 7 1 GTTTGTATGAAATCACCGAAATCATACCAGTTACCATTGAG-ATCTTGATTATCTA
 - 2 TAGGCATTAACAATGAATAATAAGAATCTACAACAGGAACT-CCACTACCTGGCGTG
 - 3 GTTAAGTCAGTGTCAACATGTGACTCTGCAGTTAAAGCCCT-GGTCAAGGTTAATA
 - 4 TTAACCTCTCTCCGTGAAGTCATATTTTAACAAATCCCACT-TAATGTAAGGCTTT
- 8 1 AACACAATTTGGGTGGTATGTCTGATCCCAATATTTAAAAT-AACGGTCAAAGAGTT
 - 2 GAGAATAAAACATTAAAGTTTGCACAATGCAGAATGCATCT-GTCATCCAAACAGTT
 - 3 CATCAACAAATATTTTCTCACTAGTGGTCCAAAACTTGTA-GGTGGGAACACTGTA
 - 4 ATGTACAACACCTAGCTCTCTGAAGTGGTATCCAGTTGAAA-CTACAAATGGAACAC
- 9 1 TACACAAGTAATTCCTTAAAACTAAGTCTAGAGCTATGTAA-GTTTACATCCTGATT
 - 2 TGCGTTTATCTAGTAATAGATTACCAGAAGCAGCGTGCATA-GCAGGGTCAGCAGCA

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Table 1: Sequences of the antisense oligonucleotides (ASOs) targeting the 2,924 nt segment of SARS-CoV-2 RNA. (Continued)

- 3 TTTGACAGTTTGAAAAGCAACATTGTTAGTAAGTGCAGCTA-CTGAAAAGCACGTAG
- 4 CTTAAAGAAACCCTTAGACACAGCAAAGTCATAGAAGTCTT-TGTTAAAATTACCGGG
- 10 1 CAGCATTACCATCCTGAGCAAAGAAGAAGTGTTTTAATTCA-ACAGAACTTCCTTC
 - 2 CTGATATCACACATTGTTGGTAGATTATAACGATAGTAGTC-ATAATCGCTGATAG
 - 3 ACCATCGTAACAATCAAAGTACTTATCAACAACTTCAACTA-CAAATAGTAGTTGT
 - 4 AACCAGCTGATTTGTCTAGGTTGTTGACGATGACTTGGTTA-GCATTAATACAGCC
- 1 1 CCTCATAACTCATTGAATCATAATAAAGTCTAGCCTTACCC-CATTTATTAAATGGAA
 - 2 ATTTGAGTTATAGTAGGGATGACATTACGTTTTGTATATGC-GAAAAGTGCATCTTGAT
 - 3 GAGACACCAGCTACGGTGCGAGCTCTATTCTTTGCACTAAT-GGCATACTTAAGATTC
 - 4 GGCTATTGATTTCAATAATTTTTGATGAAACTGTCTATTGGT-CATAGTACTACAGATA
- 1 CAACCACCATAGAATTTGCTTGTTCCAATTACTACAGTAGC-TCCTCTAGTGGC
 - 2 CCATAAGGTGAGGGTTTTCTACATCACTATAAACAGTTTTT-AACATGTTGTGC

Continued on next page

- Table 1: Sequences of the antisense oligonucleotides (ASOs) targeting the 2,924 nt segment of SARS-CoV-2 RNA. (Continued)
 - 3 CATAATTCTAAGCATGTTAGGCATGGCTCTATCACATTTAG-GATAATCCCAAC
 - 4 ACGGTGTGACAAGCTACAACACGTTGTATGTTTGCGAGCA-AGAACAAGTGAGGC
 - 13 1 ACACATGACCATTTCACTCAATACTTGAGCACACTCATTAG-CTAATCTATAGAA
 - 2 AGTTGTGGCATCTCCTGATGAGGTTCCACCTGGTTTAACAT-ATAGTGAACCGCC
 - 3 ATTAACATTGGCCGTGACAGCTTGACAAATGTTAAAAAACAC-TATTAGCATAAGC
 - 4 TAAATTGCGGACATACTTATCGGCAATTTTGTTACCATCAG-TAGATAAAAGTGC

Table 2: Sequences of the forward (F) and reverse (R) primers for amplifying the binding site of each ASO group in the 2,924 nt segment of SARS-CoV-2 RNA.

Group	Primer	Sequence
1	F	AATAATGAGCTTAGTCCTGTTGCACTACG
	R	AGGTTGTTTAATCCTTTAATAAAGTATAAATACTTCACTTT-
		AGG
2	F	ACCTTGTAGGTTTGTTACAGACACCCTAA
	R	TTGCCTGACCAGTACCAGTGTGTG
3	F	GGACAACCAATCACTAATTGTGTTAAGATGTTG
	R	TCACAACTACAGCCATAACCTTTCCACA
4	F	CTTAAAAACACAGTCTGTACCGTCTGC
	R	GTAAGAATCAATTAAATTGTCATCTTCGTCCTTTTC
5	F	TGCTAAATTCCTAAAAACTAATTGTTGTCGCTT
	R	ATGTGTCACAATTACCTTCATCAAAATGCCT
6	F	CAATGGCAGACCTCGTCTATGC
	R	GAAATCATACCAGTTACCATTGAGATCTTGATTATC
7	F	CGAAATGCTGGTATTGTTGGTGTACTGAC
	R	GTCTGATCCCAATATTTAAAATAACGGTCAAAGAG
8	F	TGTTAAAATATGACTTCACGGAAGAGAGGGTT
	R	AAGTCTAGAGCTATGTAAGTTTACATCCTGA
9	F	CCACTTCAGAGAGCTAGGTGTTGTAC
	R	CAAAGAAGAAGTGTTTTAATTCAACAGAACTTCCT
10	F	TGACTTTGCTGTCTAAGGGTTTCTTTA
	R	CATAATAAAGTCTAGCCTTACCCCATTTATTAAATGG
11	F	CGTCAACAACCTAGACAAATCAGCTGG
		Cauthanad an over the con-

Table 2: Sequences of the forward (F) and reverse (R) primers for amplifying the binding site of each ASO group in the 2,924 nt segment of SARS-CoV-2 RNA. (Continued)

- R TTCCAATTACTACAGTAGCTCCTCTAGTG
- 12 F GACCAATAGACAGTTTCATCAAAAATTATTGAAATCAATA-G
 - R ATACTTGAGCACACTCATTAGCTAATCTATAG
- 13 F ACAACGTGTTGTAGCTTGTCACACC
 - R TAAATTGCGGACATACTTATCGGCAATTTTG

Table 3: Sequences of the forward (F), forward with T7 promoter (F+T7), and reverse (R) primers for amplifying the short segment of each 1,799 nt segment of coronaviral RNAs.

Coronavirus	Primer	Sequence
Bat Coronavirus 1A	F	GGACCCTATACGGTTTTGTCT-
		TGAAAA
	F+T7	TAATACGACTCACTATAGGAC-
		CCTATACGGTTTTGTCTTGAA-
		AA
	R	TTTTACAATAAAGAAAGCATC-
		ATGCTT
Bat Coronavirus BM48-31	F	GGGTTTTATTCTTAGAAACAC-
		AGTCTG
	F+T7	TAATACGACTCACTATAGGGT-
		TTTATTCTTAGAAACACAGTC-
		TG
	R	GGAGTCTAATAAGTTGCCCTC-
		TTCATC
Common Moorhen Coronavirus	F	GGATAAAGATAAGGAACCTG-
		ТТТСТТТ
	F+T7	TAATACGACTCACTATAGGAT-
		AAAGATAAGGAACCTGTTTCT-
		TT
	R	ACTATTAGGTATTGGCAAATT-
		AATGCG
Human Coronavirus OC43	F	GGCTGTGTCTTATGTTTTGAC-
		ACATGA
		Continued on next page

Table 3: Sequences of the forward (F), forward with T7 promoter (F+T7), and reverse (R) primers for amplifying the short segment of each 1,799 nt segment of coronaviral RNAs. (Continued)

ment of coronaviral RNAs. (Continued)				
	F+T7	TAATACGACTCACTATAGGCT-		
		GTGTCTTATGTTTTGACACAT-		
		GA		
	R	ATCTAATTTATCACCGTTCTC-		
		ATCAAC		
Infectious Bronchitis Virus	F	GGTTTGCACTGTTTGCCAGTG-		
		TTGGAT		
	F+T7	TAATACGACTCACTATAGGTT-		
		TGCACTGTTTGCCAGTGTTGG-		
		AT		
	R	CTCAAGATTTCCATCTTCAGT-		
		ATCGCG		
MERS Coronavirus	F	GGGATTTTGTTTGTCAAATAC-		
		CCCCTG		
	F+T7	TAATACGACTCACTATAGGGA-		
		TTTTGTTTGTCAAATACCCCCT-		
		G		
	R	ATGATGCCCTTGGTCATCTAA-		
		TTCTAC		
Murine HepATitis Virus	F	GGCTGTGTCATATGTGTTGAC-		
		GCATGA		
	F+T7	TAATACGACTCACTATAGGCT-		
		GTGTCATATGTGTTGACGCAT-		
		GA		
		Continued on next page		

Table 3: Sequences of the forward (F), forward with T7 promoter (F+T7), and reverse (R) primers for amplifying the short segment of each 1,799 nt segment of coronaviral RNAs. (Continued)

		,
	R	ATCCAACTTGTTGCCGTCCTC-
		ATCTAC
SARS Coronavirus 1	F	GGGTTTTACACTTAGAAACAC-
		AGTCTG
	F+T7	TAATACGACTCACTATAGGGT-
		TTTACACTTAGAAACACAGTC-
		TG
	R	AGAGTCTAATAAATTGCCTTC-
		CTCATC
SARS Coronavirus 2	F	GGGTTTTACACTTAAAAAACAC-
		AGTCTG
	F+T7	TAATACGACTCACTATAGGGT-
		TTTACACTTAAAAACACAGTC-
		TG
	R	AGAATCAATTAAATTGTCATC-
		TTCGTC
Transmissible Gastroenteritis Virus	F	GGCAATTCGGTTCTGTATTGA-
		AAATGA
	F+T7	TAATACGACTCACTATAGGCA-
		ATTCGGTTCTGTATTGAAAAT-
		GA
	R	TTTGACAATGTAGTAGGCATC-
		ATGTTT

Table 4: Sequences of the antisense oligonucleotides (ASOs) targeting the 1,799 nt segments of coronaviral RNAs.

Coronavirus		Sequence
Bat Coronavirus 1A	1	CAGGGCTCTAGTCGAGCTGCAC-
		TAGAGCCCCTTGCTCGTTTAAA-
		TAAGCCTGATCAACAG
	2	GCAACTTCTTTATTGTAAATATC-
		AAAGGCGCGTACAACATGCTCC-
		GGTTCAGTACCATTA
Bat Coronavirus BM48-31	1	GACATCAGTGCTTGTGCCTGTG-
		CCGCACGGTGTAAGACGGGCC-
		GCACTTACACCGCAAAC
	2	TTTTAGGAACTTTGCAAAACCA-
		GCAACTTTCTCATTATAAATATC-
		AAAAGCCCTGTAAAC
	3	AAAATAGGAGTCTAATAAGTTG-
		CCCTCTTCATCAACTTCCTGGAA-
		ACGGCAACAATTTGT
Common Moorhen Coronavirus	1	TGGGGTTCTAGACGGGCATCAC-
		TAGAACCCTTTACTCGTTTAAAT-
		AAGCTGTATTTTGCA
	2	GTTATATTATTATGTACATGAAA-
		CGCCCTTTTTACAATATCCGGCT-
		GAGTGCCAGACTGT
Infectious Bronchitis Virus	1	ACATCAAAGGCTCGCTTTACAA-
		CATCAGGATCACATCCACTAGC-
		AAGGGGTATCAGCCGA
		Continued on next page

Table 4: Sequences of the antisense oligonucleotides (ASOs) targeting the 1,799 nt segments of coronaviral RNAs. (Continued)

Murine Hepatitis Virus		AAGCCACTGGCACAGGGTACAA-
		GACGGCATTTACACTTGTACC-
		CCGAATCCGTTTAAAA
	2	CCAATGCCAGCTCGATTAGCAT-
		TACAAATGTCAAATGCCCTTAA-
		TTGAACATCAGTGTCC
	3	AACTTGTTGCCGTCCTCATCTAC-
		ACGCTGGAAGCGGCAGCAATTC-
		ACTTTATAATACAAA
SARS Coronavirus 1	1	TTTGCAAAACCAGCAACTTTTC-
		GTTGTAAATATCAAAAGCCCTG-
		TAGACGACATCAGTA
	2	TCTAATAAATTGCCTTCCTCATC-
		CTTCTCCTGGAAGCGACAGCAA-
		TTAGTTTTTAGGAAC
SARS Coronavirus 2	1	GACATCAGTACTAGTGCCTGTG-
		CCGCACGGTGTAAGACGGGCT-
		GCACTTACACCGCAAAC
	2	TTTTAGGAATTTAGCAAAACCA-
		GCTACTTTATCATTGTAGATGTC-
		AAAAGCCCTGTATAC
Transmissible Gastroenteritis Virus		TAAATAACTTTGATCAACAGTA-
		AAACTCTGCATAGAAGTACGAT-
		CGCACATGCAACCATT
		Continued on next page

Table 4: Sequences of the antisense oligonucleotides (ASOs) targeting the 1,799 nt segments of coronaviral RNAs. (Continued)

2 GGTCTGGATCAGTACCATTGCA-GGGTTCTAGTCGAGCTGCACTA-GAACCCCGCACTCGTT