

Table S1. Sequences of the primers and Oligos

Primers and Oligos	Sequences (5' to 3')	Purpose
siGFP		Chemical synthesis of
Homologous sequence	GCAAGCTGACCCTGAAGTTC	siRNA or
Sense strand	GCAAGCUGACCCUGAAGUUCUU	oligonucleotides for
Antisense strand	UUCGUUCGACUGGGACUUCAAG	shRNA construction
shGFP		that induced RNAi
Homologous sequence	GCAAGCTGACCCTGAAGTTC	
Sense strand	GATCCCCGCAAGCTGACCCTGAAGTTCTTCAAGAGAGAACTTC AGGGTCAGCTTGCTTTTAA	
Antisense strand	AGCTTAAAAAGCAAGCTGACCCTGAAGTTCTCTCTTGAAGAAC TTCAGGGTCAGCTTGCGGG	
shLuc		
Homologous sequence	CCGCTGGAGAGCAACTGCA	
Sense strand	GATCCCCCGCTGGAGAGCAACTGCATTCAAGAGATGCAGTTG CTCTCCAGCGGTTTTTAA	
Antisense strand	AGCTTAAAAACCGCTGGAGAGCAACTGCATCTCTTGAATGCAG TTGCTCTCCAGCGGGGG	
Anti-eGFP-mRNA (Used in HEK293T)		Construction of in
1 to 500 bp-For	ATGGTGAGCAAGGGCGA	vitro- transcription
1 to 500 bp-Rev	<i>TAATACGACTCACTATAGGGCTTGTACAGCTCGTCCATGCC</i>	templates for
Anti-eGFP-mRNA (used in Drosophila S2)		preparing probes,
501 to 720 bp-For	5' <i>GATCCGCCACAACATCGAGGACGGC</i>	dsRNA and ssRNA
501 to 720 bp-Rev	5' <i>TAATACGACTCACTATAGGGCTTGTACAGCTCGTCCATGCC</i>	
Anti-antisense siGFP		
Sense strand	5' <i>TAATACGACTCACTATAGGGGCAAGCTGACCCTGAAGTTCTT</i>	
Antisense strand	5' <i>AAGAACTTCAGGGTCAGCTTGCCCCCTATAGTGAGTCGTATTA</i>	
1-244 bp-dsRNA For	<i>TAATACGACTCACTATAGGGATGGTGAGCTAGGGCGAGGA</i>	
1-244 bp-dsRNA Rev	<i>TAATACGACTCACTATAGGGGCTGCTTCATGTGGTCGG</i>	
1-500 bp-dsRNA For	<i>TAATACGACTCACTATAGGGATGGTGAGCTAGGGCGAGGA</i>	
1-500 bp-dsRNA Rev	<i>TAATACGACTCACTATAGGGTTGAAGTTCACCTTGATGCC</i>	
1-500 bp-ssRNA For	<i>TAATACGACTCACTATAGGGATGGTGAGCTAGGGCGAGGA</i>	
1-500 bp-ssRNA Rev	TTGAAGTTCACCTTGATGCCGT	
5'-HEX labeled siRNA	with HEX label at the 5' terminal of eGFP specific siRNA sense strand	Chemical synthesis of labeled siRNA substrate

The GenBank accession number of the eGFP protein used in the current study is U55763. The T7 polymerase promoter is shown in italics. The eGFP ORF region is amplified from pEGFP-C1.

Table S2. List of primer sequences

Primer	Sequences (5' to 3')
pAcV5HisB-N For	<u>GGAATTCGCCACCATGTCTGATAATGGACCCCAATC</u> (EcoRI)
pAcV5HisB-N Rev	ATAAGAAT <u>GCGGCCGCCTGCCTGCCTGAGTTGAATCAGCAG</u> (NotI)
pAcV5HisB-Nsp14 For	ATAAGAAT <u>GCGGCCGC</u> GCCACCATGGCAGAAAATGTAAGTGGACTTTTAA (NotI)
pAcV5HisB-Nsp14 Rev	<u>CCGCTCGAGCGCTGTAACCTGGTAAATGTATTCCAC</u> (XhoII)
pAcV5HisB-ORF6 For	<u>GGAATTCGCCACCATGTTCCACCTGGTGGACTTCCAGG</u> (EcoRI)
pAcV5HisB-ORF6 Rev	ATAAGAAT <u>GCGGCCGC</u> CGGGGTAGTCCAGCTCCATGGGCTCC (NotI)
pGEX6p-1-N For	<u>CGCGGATCCATGTCTGATAATGGACCCCAATC</u> (BamHI)
pGEX6p-1-N Rev	ATAAGAAT <u>GCGGCCGC</u> TGCCTGAGTTGAATCAGCAG (NotI)
N-R186A For*	AGTCAAGCCTCTTCTGCCTCCTCA
N-R186A Rev*	ACTACGTGATGAGGAGGCAGAAGA
N-R190/192A For*	TCTCGCTCCTCATCAGCTAGTGCCGTAATTCA
N-R190/192A Rev*	TGAATTACCGGCACTAGCTGATGAGGAGCGAGA
N-R196A For*	AGTCGCGTAATTCAGCAAATTCAACTCCT
N-R196A Rev*	AGGAGTTGAATTGCTGAATTACCGCGACT
N-R204 For*	ACTCCTGGCAGCAGTGCGGGAAAT
N-R204 Rev*	AGCAGGAGAATTTCCCGCACTGCT
N-R210 For*	GGAAATTCTCCTGCTGCAATGGCT
N-R210 Rev*	ACCTCCGCTAGCCATGCAGCAGG
N-R227 For*	CTATTGCTGCTAGACGCATTGAAC
N-R227 Rev*	CTCAAGCTGGTTCAATGCGTCTAG
N-K249250A For*	GGCCAAACTGTCACTGCGGCATCTGCTGCTG
N-K249250A Rev*	TGCCTCAGCAGCAGATGCCGCAGTGACAGTT
N-K257258A For*	GCTGCTGAGGCATCTGCAGCGCCTCGCCAAA
N-K257258A Rev*	ACGTTTTTGGCGAGGCGCTGCAGATGCCTCA
N-R260A For*	GCATCTAAAAAGCCTGCCAAAAACGTA
N-R260A Rev*	GGCAGTACGTTTTTGGCAGGCTTTTTAGATGC
N-K262R263A For*	AAAAAGCCTCGCCAAGCAGCTACTGCCACAA
N-K262R263A Rev*	CTGTTTTGTGGCAGTAGCTGCTTGGCGAGGC
N-K267A For*	AAACGTAAGTCCACAGCACAGTACAACG
N-K267A Rev*	AGTGACGTTGTACTGTGCTGTGGCAGTA
N-K277278A For*	ACTCAAGCATTTGGGGCAGCTGGTCCAGAAC
N-K277278A Rev*	GGTTTGTCTGGACCAGCTGCCCAAATGCT
N-K257A For*	GCTGCTGAGGCATCTGCAAAGCCTCGCCAAA
N-K257A Rev*	ACGTTTTTGGCGAGGCTTTCAGATGCCTCA
N-K258A For*	GCTGCTGAGGCATCTAAAGCGCCTCGCCAAA
N-K258A Rev*	ACGTTTTTGGCGAGGCGCTTTCAGATGCCTCA
N-K262A For*	AAAAAGCCTCGCCAAGCAGTACTGCCACAA
N-K262A Rev*	CTGTTTTGTGGCAGTACGTGCTTGGCGAGGC

N-R263A For*	AAAAAGCCTCGCCAAA <i>AAAGCT</i> ACTGCCACAA
N-R263A Rev*	CTGTTTTGTGGCAGT <i>AGCTTTTT</i> GGCGAGGC

The GenBank accession number of the N protein used in the current study is SARS-CoV (NC_004718). Primers with asterisks are designed for site-directed mutagenesis. Underlined characters indicate restriction endonuclease sites, and substituted nucleotides for mutagenesis are shown in *Italics*.

Table S3. Sequences of primers for real-time PCR and siRNAs for Dicer1/Ago2 knockdown

Primer	Sequences (5' to 3')	Purpose
RT-Mouse Dicer1 For	TGTTTGACCATCCAGACGCAGAG	Primer sequences for real-time PCR
RT-Mouse Dicer1 Rev	GGTGTTATTGACAAGGGCAGAGC	
RT-Mouse Ago2 For	CCCACCTCCCGTGTTTACAAGTC	Homologous sequences for Dicer1 and AGO2 knockdown in mouse Neuro-2a cells
RT-mouse Ago2 Rev	CGCCCAGTCACATCTGTCATCTC	
RT-MHV mRNA7 For	TATAAGAGTGATTGGCGTCC	
RT-MHV mRNA7 Rev	GAGTAATGGGGAACCACT	
RT-Mouse IFN- β For	CCGAGCAGAGATCTTCAGGAA	
RT-Mouse IFN- β Rev	CCTGCAACCACCACTCATTCT	
RT-Mouse ISG56 For	CAGTCAGAAGACAAGGCAATCAC	
RT-Mouse ISG56 Rev	TTTCAGTTTGTAGACTAGCCCAAG	
RT-Mouse GAPDH For	AGTGTTTCCTCGTCCCGTAG	
RT-Mouse GAPDH Rev	CTGTGCCGTTGAATTTGC	
siDicer1-1	ATCGATCATATGTCCAGTCTA	
siDicer1-2	AACGGATCTTACAGCAATTAA	
siDicer1-3	CACCATATCCATCGAGCTGAA	
siDicer1-6	CAGGAGGAGGTACTIONTAGGAAA	
siAgo2-1	CACGTTTCATCGTGGTGCAGAA	
siAgo2-2	CACTATGAATTGGACATCAA	
siAgo2-3	AAGGGTAAAGTTTACCAAAGA	
siAgo2-4	CACCACCGGGAGAACAATCAA	

The GenBank accession number of the proteins used in the current study is Mouse Dicer1 (NM_148948.2); Mouse Ago2 (NM_153178.4); MHV mRNA7 (NC_001846); Mouse IFN- β (NM_010510.1); Mouse ISG56 (NM_008331.3); Mouse GAPDH (GU214026). Primers for mRNA7 detection target the ORF N and the coterminal 3'UTR.