

### **CDS TRIM25**

ATGGCAGAGCTGTGCCCCCTGGCGAGGGAGCTGTCGTGCCATCTGCTGGAGCCCTCAAGGAGCGGTACCCACTCGTGCAGGCCACAACCTCTGCGGGTC  
GTGCTGAATGAGACGTGGCAGTCAGGGCTGCCATACCTGTGCCGAGCTGCCGCGCTACCAGGCGCACCGAGCTGCACAAGAACACGGTGTCT  
GTGCAACGTGGTGGAGCAGTTCTGCAGGGCGACCTGGCCGGAGCCACCCGCCAGCTGGACGCCGCCGCCCTCTGCACCCAGCCGAATGCC  
CAGGTGGCTGCACACTGCCTGAAGGGAGGCCCGTGAAGACGTGCTGGTGTGCATGCCCTCTGCAGGAGCACCTGCAGGCCACTTGACAGCC  
CCGCCCTCAGGACCACCCGCTGCAGGCCGCCGACTGTTGCGCCCAAATGTCAGGCCAGCACAATGGCTGCCGAATTCTGCCAGCAGCAGC  
GAGTGATCTGCCACATCTGCCGGTGGAGCATAAAGACCTGCTCCCGGCCCTGAGCCAGGCCAGCAGCTGGAGGCCACCCCTGAGGCAAAAATAA  
CTGTCATGTACAGTCAAGTCAACGGGGCGTGCAGAGACTGGATGTGAGAAAACAGGCCAGCAGGATGTGCGGATGACTGCAAACAGAAAGGGTGGAGCAG  
CTA**CAACAAGAAATACCGGAAATG**AAGGCTCTTGCAGAGACCTGCAGAGAAGATAAAGGAAGAGGAGAAGAGGGTCAACAGCAAGTT  
TGACACCATTTATCAGATTCTCTCAAGAAAAGAGTGAGATCAGACCTGAGGATGAAAGGAGGATTTGACAGAGCTGACCAAGGGATGAGTTGAGTTCTG  
GAGAAAAGCATCAAAACTCGGAGGAATCTAACAAAGCCAGTCTACATCCCCAGGTGAACTGAACCACAAGCTGATAAAAGGCATCCACAGAGCA**CCTA**  
**GACCTCAAAACG**A GCTGAAGCAGTGCATGGCGGCTCAGGAGGCCACCCCGACTTCAGGTGACCCCTGGAGAGCATGACCCAGCGTCCACACAAATCC  
ACACGCCCTGTGAAAGAAGGCTTCAAAAGGAAAAGAAATCCAAGGAAACCTCCCTCTGCCCTGAGCCAGCTCACATCCCACGTTGGAGCCGGAAACA  
GTTAGTGGATTAAACAAAGCAGCTGGGGGGCTGCAGCCAAAGGCCACAGCTCACATCCCACACTCAAGGCCAGGGTGTGAGGACCTTCTG  
GCCAAGTCCAGGACTGCTGGAGTATTACATTAAGGTCTGGACTACACAGGCCACAAACAAAGGGTCTGTGAGAGTGTATACAGTAGCTTC  
TGTGGCTGAGATGCTCAGAACTACCGGCCCATCCAGGGTTCACATACTGCTCTGAGGCTGGACTCTGACATCAAGAAGGGATCACTACTGG  
GAGGTGGAGCTGCAGAAGAACAACTCTGTTGGTAGGATCTGTCAGGAAGCTGAAACCCGAGGGGCCAGAAAAGCAGGCTGGCCCAACAGGCC  
CTGGTGTGTTGGAGTGGTCAACACCAAGATCTGCTGGCACAATAACGTGGAGAAAACCTGCCACCAAGGCCAGCGGGTGGGGTGTCTCTCAAC  
TGTGACACGGCTTTGATCTCTCTGCTGTTGCCACAAGGTCACTGTGATGTATAAGTTGAGGTTGACTTACTGAGGTTGACTTGTACCCGGCTTCTGGGTA  
TTTCTGCTGGTGCACACTCTCATCTGCCACCCAGTAGGCAGG

### **CDS HRSV-F**

ATGGAGTTCCAATCTCAAGCAAATGCAATTACCAACATCTCGCTGCAGTCACATTTGCTTCTAGTCAAAACATCACTGAAGAATTATCA  
ATCAACATGCACTGCAAGGCTCTTAGTCAGGACTCTAGTGTCTAAAGGACTGGTTGTACTAGTGTATAACTAGAATTAGTAATATCAAGGAAAA  
TAAGTGTAAAGAACAGATGCCAAGGTTAAACTGATAAAAGAAATTAGATAATAAAAATGCTGAAACAGAATTGCAAGTGTCTCATGCAAGCA  
CACCAGCAGAAACAATCGAGCCAGAAGAGAACTACCAAGGTTTAATGATTAAACTACACTCAACAAATACCAAAACAAATGTAACATTAAGCAAGAAA  
AGGAAAAGAAGATTCTGGTTTTGTTAGGTGTTGGATCTGCAATGCCAGTGGACTGCTGTATCTAAGGTCTGACTTAGAAGGAGAAGTGAAC  
AAGATCAAAGTGTCTACTATCCACAAACAGGCCAGTCACTGTTCAATGGAGTTAGTGTCTAACCA**GCAAAGTGTAGACCTCAAAACTAT**  
ATAGATAAAACATTGTTACCTATTGTGAATAAGCAAAGCTGCAAGATATCAAATATAGAAACTGTGATAGTCAAGGTTCAACAAAGAACACAGACT  
AGAGATTACCGGAATTAGTGTAAATGCAAGGTGAACTACACCTGTAAGCACTTACATGTTAACTAATAGTGAATTATGCTTACATCAATGATATG  
CTCTATAACAAATGATCAGAAAAAGTTAATGTCACAAATGTCCTAAAGTAACTGCAACATGTTAGGACTCTATGTCATGTCATAAAAGAGGAAGTCTTA  
GCATATGTTAGTACAATTACCATATGGTGTGATAGTACACCTGTTGGAAATTACACACCTCTATGTCATAACCAACACAAAGGGTCA  
AACATGTTAACAGAACGACTGAGGAGTGTACTGACAATGCAAGTCACTGTTACAGTATCTTCCACAAAGCTGAAACATGTAAGGTTCAATCGAAT  
CGAGTATTTGTGACACAAATGAAAGCTTACATTACCAAGTGTAAATCTGCAATGTTGACATATTCAATCCAAATATGATTGTAAGGTT  
CTTCAAAACAGATGTAAGCAGCTCGTATCACATCTAGGAGCATTGTCATGTTAGGAACTATGTCATGTCATAAAAGAGGAAGTCTG  
GAATCATAAAAGACATTCTAACGGGTGTGATTATGTCATAAAAGGGGTGACACTGTTGCTGTGTTAGGAAACATTTGTCATGTCATAAAAGAGGAAGTCTTA  
AAGGCAAAAGTCTCTATGTAAGGTTAGCATTCTGTAATCCGATGATTACATGTCATAATGTCGTTGAAATCAACCAAAATATCATGATAACT  
TGAGAAGGTTAACACAGAGTTAGCATTCTGTAATCCGATGATTACATGTCATAATGTCGTTGAAATCAACCAAAATATCATGATAACT  
ATAATTATGTTAGTATAATTGTTACATTAATTGCTGTTGGACTGCTCTACTGTAAGGCCAGAAGCACCCAGTCAACTAAGCAAGGATC  
ACTGAGTGGTATAAAATATTGCACTTGTAACTGAAT

### **CDS HRSV-F**

ATGGAGTTCCAATCTCAAGCAAATGCAATTACCAACATCTCGCTGCAGTCACATTTGCTTCTAGTCAAAACATCACTGAAGAATTATCA  
ATCAACATGCACTGCAAGGCTCTTAGTCAGGACTCTAGTGTCTAAAGGACTGGTTGTACTAGTGTATAACTAGAATTAGTAATATCAAGGAAAA  
TAAGTGTAAAGAACAGATGCCAAGGTTAAACTGATAAAAGAAATTAGATAATAAAAATGCTGAAACAGAATTGCAAGTGTCTCATGCAAGCA  
CACCAGCAGAAACAATCGAGCCAGAAGAGAACTACCAAGGTTTAATGATTAAACTACACTCAACAAATACCAAAACAAATGTAACATTAAGCAAGAAA  
AGGAAAAGAAGATTCTGGTTTTGTTAGGTGTTGGATCTGCAATGCCAGTGGACTGCTGTATCTAAGGTCTGACTTAGAAGGAGAAGTGAAC  
AAGATCAAAGTGTCTACTATCCACAAACAGGCCAGTCACTGTTCAATGGAGTTAGTGTCTAACCA**tgtAGACCTCAAAActATA**  
TAGATAAAACATTGTTACCTATTGTGAATAAGCAAAGCTGCAAGATATCAAATATGAAACTGTGATAGGTTCAACAAAGAACACAGACT  
GAGATTACCGGAATTAGTGTAAATGCAAGGTGAACTACACCTGTAAGCACTTACATGTTAACTAATAGTGAATTATGCTTACATCAATGATATG  
CTATAACAAATGATCAGAAAAAGTTAATGTCACAAATGTTAAATAGTGTAGGAACTACACTGTTGCTGTGACTTACATGTCATAAAAGAGGAAGTCTTAG  
CATATGTTAGTACAATTACCATATGGTGTGATAGTACACCTGTTGGAAATTACACACCTCTATGTCATAACCAACACAAAGGGTCA  
ACATGTTAACAGAACGACTGACAGGGAGTGTACTGTCAGGAACTGTCAGTATCTTCTCCACAAAGCTGAAACATGTTCAATCGAATC  
GAGTTTTGTGACACAAATGAAAGCTTACATTCAAGTGTAAATCTGCAATGTTGACATATTCAATCCAAATATGTTGAAATTATGAC  
TCACAAAACAGATGTAAGCAGCTCGTATCACATCTAGGAGCATTGTCATGTCATGGAAACAAACTAATGTCAGCATCAAAATAAAATGTTG  
AATCATAAAGACATTCTAACGGGTGTGATTATGTCATAAAAGGGGTGACACTGTTGCTGTGAGGAAACATTTGTCATAATGTAAGGAA  
AGGCAAAAGTCTCTATGTAAGGTTAGCATTCTGTAATCCGATGATTACATGTCATAATGTCGTTGAAATTCGATCAATATCTAAGTCA  
GAGAAGGTTAACACAGAGTTAGCATTCTGTAATCCGATGATTACATGTCATAATGTCGTTGAAATCAACCAAAATATCATGATAACT  
TAATTATGTTAGTATAATTGTTACATTAATTGCTGTTGGACTGCTCTACTGTAAGGCCAGAAGCACCCAGTCAACTAAGCAAGGATC  
ACTGAGTGGTATAAAATATTGCACTTGTAACTGAAT

**Supplemental Figure 2.** Coding Sequences (CDS) of *TRIM25* and *HRSV-F* showing the target sequence of *TRIM25* (green) siRNA, *HRSV-F* siRNA (blue) and *TRIM25 / HRSV-F* siRNA (red). Mismatches between target genes and the siRNA are in lowercase.

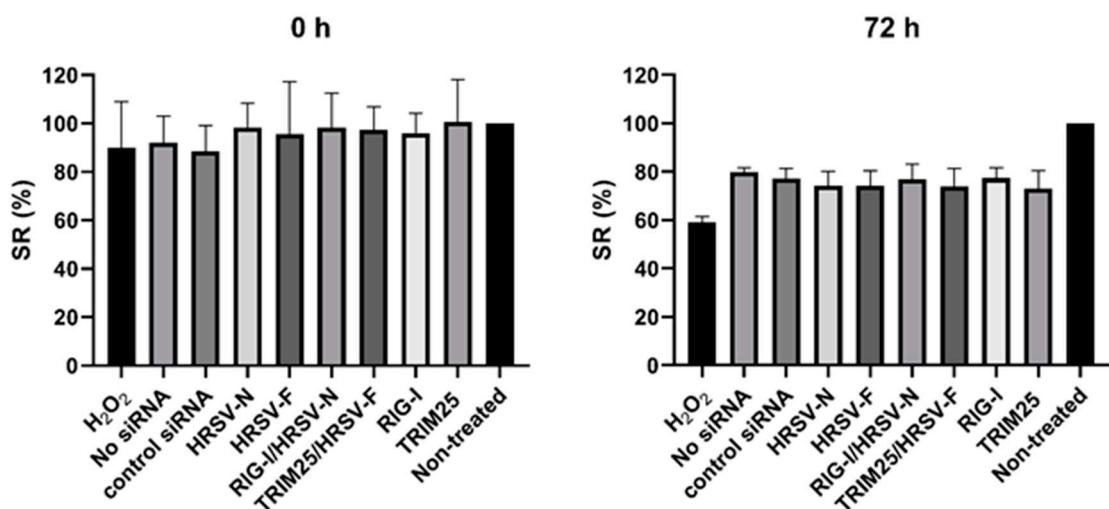
#### **CDS RIG-I**

ATGACCAAGCAGCGACGCCCTGCAAGCCTTCAGGATTATCCGAAGACCTGGACCTACCTACATCTGAGCTACATGGCCCCCTGGTTA  
GGGAGGAAGAGGTGAGTATTCAGGCTGAGAAAAACAAACAAGGGCCAATGGAGGCTGCCACACTTTCTCAAGTTCTGGAGCTCCAGGAGG  
AAGGCTGGTCCGCTTTGGATGCCCTAGACCATGCAGGTTATCTGACTTATGAAGCCATTGAAAGTGGGATTCAAAGATGAAAAGT  
GGAGGAGTATAGATTCTTTAAACGTTAACACAGAAATTAAACAGAATTATCCAACCGATATCATTCTGATCTGAATGTTAATTAACTCA  
GGAATGTGAAGAAATTCTACAGATGCTACTAAGGGATGATGGCAGGTGAGAGAAATTGGGATGCTTCAGATCAGACAAGGAAAACGT  
GCCAAAATTGAAACTTGCTGGAGAAAGAAAGGAAAGTTCAGTGAACCTGTTAGAGAAAGGTATAAAAGATGTTGAAACAGAAGATCT  
TGAGGATAAGATGAAACTCTGACATACAGATTTCTACAAAGAAGTCAGAATGCCAGAATCTTAGTGAGAATTCTGTCACCTCAGAAGTGTCT  
GATACAACTGTACAGCCATTAAACCAAGAAATTACCAATTAGAGCTTGCCTGCTATGAAGGAAAAAACACATAATATGTCCTACAGG  
TTGAGGAAACCTTGTTACTGTTATGTGAACATCATTTAAACAGAAATTCCACAAGGACAAAGGGAAAGTTGCTTTGCGAATCAGATCC  
CACTGAGTGAACAGCAGAAACTCTGTTACTGTTAAACAGATGCTACTAAGGGATGATGGCAGGTGAGAGAAATTGCTGAGCAGCTGAGAATGTC  
GGAACAGATTGTTGAGAACATGACATCATCTTAACTCCACAGATTCTGTAACACCTTAAAGGGAAACGATTCCATACTATCCATCT  
GATGATATTGATGAATGCCAACACACTAGTAAACAAACCCGTACAAATGTATGTTAATTATCTAGATCAGAAACTGGAGGATCTCAGGCCAC  
TGCCCCAGGTCTGGCTGACTGCCTCGGGTGTGGGATGCCAAAACACAGATGAAGCCTGGATTATCTGCAAGCTGTGCTCTTGAT  
GCGTCAGTGTAGCAACAGTCAAACACAATCTGAGGA**GGAAcTGGAGCAAGTTGTT**TATAAGCCCAGAAGTTTCAAGGAAAGTGGAAATCAGGATTAGC  
GACAATTTAAATACATCATAGTCAGCTGATGAGGGACACAGAGGTGAGGAAAGAATCTGCAAAAGACCTGAAACAACTTATCTAAATTCAAATA  
GGGAATTGGAAACAGAAATATGAACAATGGATTGTTACAGTTCAGAAACAGTCATGTTGAGGAAACAGTGCAGAACAGGAGGATT  
GTAAGGCCCTGTTTACATCTCACATTGGGAAATAATATGATGCTCATTACTGAGCATGCAAGAATGGGATCTGGGATT  
GACTTCTCAGAACATGTCGAGCAGCAGGATTGATGAGATTGAGCAAGATCTTACAGAGATTGAGAAAGTCAGGAACTAGAAAGTGTTC  
GGGATCCCAAGAACATGAGAAACTTAAACTGAGACCTGCTTCATCTA**CAAGAAGAGTACCACTAA**ACCCAGAGACAAATAACAAATTCTTGTGAA  
AACAGAGCACTGTGGAGCCTTAAAGGATTGAGAAAGAACCTAAACTCAGTTCTAAACCTGGCATATTGACTGGACGTGCAAACAA  
CAGAACACAGGAATGACCCTCCGGACAGAAGTGTATATTGGATGCTTAAAGCCAGTGGAGATCACATATTCTGATTGCCACCTCAGTGTGATG  
AAGGATTGACATTGACAGTCACATCTTGTGATGAGATTGAGCAATGTCATCAAATGATCCAACACCAGAGGAGGAAAGCAAGAG  
GTAGCAAGTGTCTCTGACTAGTAATGCTGTAAATTGAAAGAACAAACATGTAACAGGAAAGTGTGACTTATTTACGCC  
CAGACATGGGAGCAAGCATTTAGGGAAAAGATCTGCAATACAGACTGATGAAACATTCAGAGATAGTCAGAAAACACCTGACCT  
GATAAGGAAAATAAAACTGCTCTGCAAGAACAGTGCAGGCTTGCATGTTACAGCTGACGTAGAGTGTAGAGGAAATGCCATTACGTGCTT  
GGAGATGCTTAAAGGAAATGTTGTGAGTAGACCACATCCAAGGAAAGCAGTTCAAGTTGAAAGGAAAGGAAAGATATTCTGCCCCACAGA  
ACTGCAGCCATGACTGGGAACTATGTGAAGTACAAGACATTGAGATTGCAATTAAAGGATTTGTGGTGGAGGATATTGCAACTGGAGT  
TCAGACACTGTACTCGAAGTGGAGGACTTCATTGAGAAGATACCATTGATCCAGCAGAAATGCTTAAATGA

#### **CDS RSV-N**

AT**GGCTCTAGCAAAGTCAGT**TTGAATGATACTCAACAAAGATCAACTCTGTCATCCAGCAAATACGCCATCCAACGGAGCACAGGAGATAGTATTG  
ATACTCTAATTATGATGTGAGAAACACATCAATAAGTTATGTCATGTTAAATCACAGAAAGATGCTAACTCATAAATTCACTGGGTTAATAGGTATG  
TTATATGCGATGCTAGTTAGGAAGAGAACACCCATAAAAACTCAGAGATGCGGATATCATGAAAGCAAATGGAGTAGATGTAACACACAT  
CGTCAGACATTAATGGAAAAGAAATGAAAGTGTAAACATTGCAAGCTTAACAACACTGAAATTCAAATCAACATTGAGATAGAATCTAGAAAAT  
CCTACAAAAAAATGCTAAAGAAATGGGAGAGGTAGCTCAGAACACAGGCTGACTCTCTGATTGTGGGATGATAATTATGATAGCAGCATTAGT  
AATAACTAAATTAGCAGCAGGGGACAGATGGCTTACAGCCGTTAGGGAGAGCTAAATGCTTAAAGGAAATGAAAGTAAACAGTTACAAAGGCTT  
ACTACCAAGGACATGCCAACAGCTTATGAAGTGTGAAAACATCCCCTTATAGTGTGTTGTCTTGTGATGACAAATCTTACCC  
AGGGCAGTAGAGTTGAAGGGATTGTCAGGATTGTTATGAATGCCATTGTCAGGGCAAGTGTAGTTACGGTGGGAGTCTAGAAAATCAGT  
TAAAATATTGTTAGGACATGCTAGTGTGCAAGC**aGAATGGAaCAAGTTGTT**GAGGTTATGAATATGCCAAAATTGGTGGTAAGCAGGATT  
CTACCATATTGAACAACCCAAAAGCATCATTATCTTACTCACTTCCAGTGTAGTATTAGGCAATGCTGCTGGCTAGGCATAAT  
GGGAGAGTACAGAGGTACCCGAGGAATCAAGATCTATGTCAGCAAGGATCTGTAACAACTCAAGAAAATGGTGTGATTAACACTAGTGT  
ACTAGACTGACAGCAGAAGAAACTAGAGGCTACAAACATCAGCTTAATCCAAGATAATGATGTAGAGCTTGA

**Supplemental Figure 3.** Coding Sequences (CDS) of *RIG-I* and *HRSV-N* showing the target sequence of RIG-I (green) siRNA, HRSV-N siRNA (blue) and RIG-I / HRSV-N siRNA (red). Mismatches between target genes and the siRNA are in lowercase.



**Supplemental Figure 4.** Percentage of viable cells (survival rate, SR) transfected with the different siRNAs at 0 and 72 h post-transfection. Cell viability was determined by a MTT assay. Data represent the mean and standard deviation from quintuplicate transfections. A dilution of 1:2000 (from a 30% stock) of  $\text{H}_2\text{O}_2$  was used as a positive control of cell damage.