Figure S1. The schemes of spiRNA interaction with full complementarity in clusters of BSs in CDS gRNA SARS-CoV-2 from 12077 nt to 12107 nt

spiRNA; BS, nt; Region; ΔG, kJ/mol; ΔG/ΔGm, %; piRNA length, nt

spiR-180819; 12080; CDS; -125; 100; 24

```
5'-GCAACCUUACAAGCUAUAGCCUCA-3'
   |||||||||||||||||||||||||
3'-CGUUGGAAUGUUCGAUAUCGGAGU-5'
```

spiR-184604; 12080; CDS; -125; 100;24

```
5'-GCAACCUUACAAGCUAUAGCCUCA-3'
   |||||||||||||||||||||||||
3'-CGUUGGAAUGUUCGAUAUCGGAGU-5'
```

spiR-187101; 2079; CDS; -132; 100; 25

```
5'-GGCAACCUUACAAGCUAUAGCCUCA-3'
   |||||||||||||||||||||||||
3'-CCGUUGGAAUGUUCGAUAUCGGAGU-5'
```

spiR-188123; 12078; CDS; -138; 100; 26

```
5'-GGGCAACCUUACAAGCUAUAGCCUCA-3'
   |||||||||||||||||||||||||
3'-CCCGUUGGAAUGUUCGAUAUCGGAGU-5'
```

spiR-188808; 12078; CDS; -138; 100; 26

```
5'-GGGCAACCUUACAAGCUAUAGCCUCA-3'
   |||||||||||||||||||||||||
3'-CCCGUUGGAAUGUUCGAUAUCGGAGU-5'
```

spiR-188962; 12078; CDS; -138; 100; 26

```
5'-GGGCAACCUUACAAGCUAUAGCCUCA-3'
   |||||||||||||||||||||||||
3'-CCCGUUGGAAUGUUCGAUAUCGGAGU-5'
```

spiR-189493; 12079; CDS; -132; 100; 25

```
5'-GGCAACCUUACAAGCUAUAGCCUCA-3'
   |||||||||||||||||||||||||
3'-CCGUUGGAAUGUUCGAUAUCGGAGU-5'
```

spiR-189542; 12078; CDS; -138; 100; 26

```
5'-GGGCAACCUUACAAGCUAUAGCCUCA-3'
   |||||||||||||||||||||||||
3'-CCCGUUGGAAUGUUCGAUAUCGGAGU-5'
```

spiR-189637; 12078; CDS; -138; 100; 26

```
5'-GGGCAACCUUACAAGCUAUAGCCUCA-3'
   |||||||||||||||||||||||||
3'-CCCGUUGGAAUGUUCGAUAUCGGAGU-5'
```

spiR-190555; 12078; CDS; -138; 100; 26

```
5'-GGGCAACCUUACAAGCUAUAGCCUCA-3'
   |||||||||||||||||||||||||
3'-CCCGUUGGAAUGUUCGAUAUCGGAGU-5'
```

spiR-190706; 12078; CDS; -138; 100; 26

```
5'-GGGCAACCUUACAAGCUAUAGCCUCA-3'
   |||||||||||||||||||||||||
3'-CCCGUUGGAAUGUUCGAUAUCGGAGU-5'
```

spiR-190719; 12079; CDS; -132; 100; 25

```
5'-GGCAACCUUACAAGCUAUAGCCUCA-3'
   |||||||||||||||||||||||||
3'-CCGUUGGAAUGUUCGAUAUCGGAGU-5'
```

spiR-190772; 12078; CDS; -138; 100; 26

```
5'-GGGCAACCUUACAAGCUAUAGCCUCA-3'
   |||||||||||||||||||||||||
3'-CCCGUUGGAAUGUUCGAUAUCGGAGU-5'
```

spiR-191124; 12079; CDS; -132; 100; 25
5'-GGCAACCUUACAAGCUAUAGCCUCA-3'
   ||||||||||||||||||||||||||
3'-CCGUUGGAAUGUUCGAUAUCGGAGU-5'
spiR-191185; 12079; CDS; -132; 100; 25
5'-GGCAACCUUACAAGCUAUAGCCUCA-3'
   ||||||||||||||||||||||||||
3'-CCGUUGGAAUGUUCGAUAUCGGAGU-5'
spiR-191492; 12079; CDS; -132; 100; 25
5'-GGCAACCUUACAAGCUAUAGCCUCA-3'
   ||||||||||||||||||||||||||
3'-CCGUUGGAAUGUUCGAUAUCGGAGU-5'
spiR-192078; 12079; CDS; -132; 100; 25
5'-GGCAACCUUACAAGCUAUAGCCUCA-3'
   ||||||||||||||||||||||||||
3'-CCGUUGGAAUGUUCGAUAUCGGAGU-5'
spiR-192160; 12078; CDS; -138; 100; 26
5'-GGGCAACCUUACAAGCUAUAGCCUCA-3'
   ||||||||||||||||||||||||||
3'-CCCGUUGGAAUGUUCGAUAUCGGAGU-5'
spiR-194007; 12079; CDS; -132; 100; 25
5'-GGCAACCUUACAAGCUAUAGCCUCA-3'
   ||||||||||||||||||||||||||
3'-CCGUUGGAAUGUUCGAUAUCGGAGU-5'
spiR-194135; 12078; CDS; -138; 100; 26
5'-GGGCAACCUUACAAGCUAUAGCCUCA-3'
   ||||||||||||||||||||||||||
3'-CCCGUUGGAAUGUUCGAUAUCGGAGU-5'
spiR-194172; 12079; CDS; -132; 100; 25
5'-GGCAACCUUACAAGCUAUAGCCUCA-3'
   ||||||||||||||||||||||||||
3'-CCGUUGGAAUGUUCGAUAUCGGAGU-5'
spiR-194397; 12078; CDS; -138; 100; 26
5'-GGGCAACCUUACAAGCUAUAGCCUCA-3'
   ||||||||||||||||||||||||||
3'-CCCGUUGGAAUGUUCGAUAUCGGAGU-5'
spiR-194781; 12079; CDS; -132; 100; 25
5'-GGCAACCUUACAAGCUAUAGCCUCA-3'
   ||||||||||||||||||||||||||
3'-CCGUUGGAAUGUUCGAUAUCGGAGU-5'
spiR-345961; 12084; CDS; -125; 100; 24
5'-CCUUACAAGCUAUAGCCUCAGAGU-3'
   ||||||||||||||||||||||||
3'-GGAAUGUUCGAUAUCGGAGUCUCA-5'
spiR-360432; 12082; CDS; -130; 100; 25
5'-AACCUUACAAGCUAUAGCCUCAGAG-3'
   |||||||||||||||||||||||||
3'-UUGGAAUGUUCGAUAUCGGAGUCUC-5'
spiR-392668; 12078; CDS; -138; 100; 26
5'-GGGCAACCUUACAAGCUAUAGCCUCA-3'
   ||||||||||||||||||||||||||
3'-CCCGUUGGAAUGUUCGAUAUCGGAGU-5'
spiR-396601; 12081; CDS; -140; 100; 27
5'-CAACCUUACAAGCUAUAGCCUCAGAGU-3'
   |||||||||||||||||||||||||||
3'-GUUGGAAUGUUCGAUAUCGGAGUCUCA-5'

spiR-401969; 12078; CDS; -138; 100; 26
5'-GGGCAACCUUACAAGCUAUAGCCUCA-3'
   ||||||||||||||||||||||||||
3'-CCCGUUGGAAUGUUCGAUAUCGGAGU-5'
spiR-403725; 12079; CDS; -127; 100; 24
5'-GGCAACCUUACAAGCUAUAGCCUC-3'
   |||||||||||||||||||||||||
3'-CCGUUGGAAUGUUCGAUAUCGGAG-5'
spiR-403862; 12078; CDS; -134; 100; 25
5'-GGGCAACCUUACAAGCUAUAGCCUC-3'
   |||||||||||||||||||||||||
3'-CCCGUUGGAAUGUUCGAUAUCGGAG-5'
spiR-404008; 12079; CDS; -132; 100; 25
5'-GGCAACCUUACAAGCUAUAGCCUCA-3'
   |||||||||||||||||||||||||
3'-CCGUUGGAAUGUUCGAUAUCGGAGU-5'
spiR-404056; 12077; CDS; -142; 100; 27
5'-AGGGCAACCUUACAAGCUAUAGCCUCA-3'
   |||||||||||||||||||||||||||
3'-UCCCGUUGGAAUGUUCGAUAUCGGAGU-5'
spiR-405339; 12079; CDS; -132; 100; 25
5'-GGCAACCUUACAAGCUAUAGCCUCA-3'
   |||||||||||||||||||||||||
3'-CCGUUGGAAUGUUCGAUAUCGGAGU-5'
spiR-405683; 12079; CDS; -127; 100; 24
5'-GGCAACCUUACAAGCUAUAGCCUC-3'
   |||||||||||||||||||||||||
3'-CCGUUGGAAUGUUCGAUAUCGGAG-5'
spiR-406209; 12078; CDS; -138; 100; 26
5'-GGGCAACCUUACAAGCUAUAGCCUCA-3'
   |||||||||||||||||||||||||
3'-CCCGUUGGAAUGUUCGAUAUCGGAGU-5'
spiR-406508; 12078; CDS; -127; 100; 24
5'-GGGCAACCUUACAAGCUAUAGCCU-3'
   |||||||||||||||||||||||
3'-CCCGUUGGAAUGUUCGAUAUCGGA-5'
spiR-406684; 12079; CDS; -132; 100; 25
5'-GGCAACCUUACAAGCUAUAGCCUCA-3'
   |||||||||||||||||||||||||
3'-CCGUUGGAAUGUUCGAUAUCGGAGU-5'
spiR-410103; 12078; CDS; -138; 100; 26
5'-GGGCAACCUUACAAGCUAUAGCCUCA-3'
   |||||||||||||||||||||||||
3'-CCCGUUGGAAUGUUCGAUAUCGGAGU-5'
spiR-1177268; 12082; CDS; -130; 100; 25
5'-AACCUUACAAGCUAUAGCCUCAGAG-3'
   |||||||||||||||||||||||||
3'-UUGGAAUGUUCGAUAUCGGAGUCUC-5'