# *SARS-CoV-2* NSP13 VersaClone cDNA

**Catalog Number: RDC3125**

## Specifications:

| | |
|---|---|
| Gene: | *SARS-CoV-2* NSP13 |
| Accession: | YP_009725308.1 |
| Insert size: | 1822bp |
| Concentration: | 10µg at 0.2µg/µL |

## Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

## Preparation and Storage

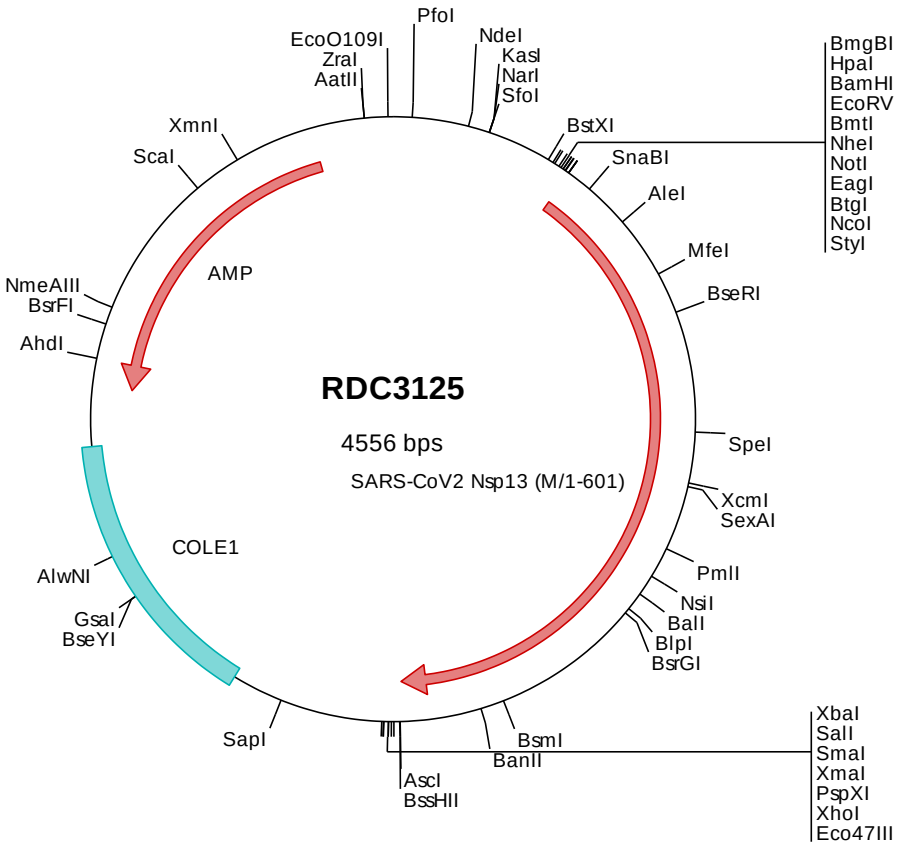
| | |
|---|---|
| Formulation | cDNA is provided in 10 mM Tris-Cl, pH 8.5 |
| Shipping | Ships at ambient temperature |
| Stability | 1 year from date of receipt when stored at -20°C to -80°C |
| Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. |

# *SARS-CoV-2* NSP13 cDNA Plasmid

**ORF1ab ORF1a polyprotein;ORF1ab polyprotein [ *Severe acute respiratory syndrome coronavirus 2* ]**


**Summary:**

NSP13 is a nonstructural protein found in the Coronavirus polyprotein. SARS-CoV-2 nonstructural proteins are responsible for viral transcription, replication, proteolytic processing, suppression of host immune responses and suppression of host gene expression. NSP13 is a helicase that plays a central role in viral RNA replication through the unwinding of duplex RNA and DNA with a 5' single-stranded tail in a 5' to 3' direction.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NOT FOR USE IN HUMANS

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## > RDC3125 Plasmid DNA Sequence

```
   1  tcgcgcgttt cggtgatgac ggtgaaaacc tctgacacat gcagctcccg gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
 101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
 201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
 301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
 401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccacc atggctgttg gggcttgtgt tctttgcaat tcacagactt cattaagatg
 501  tggtgcttgc atacgtagac cattcttatg ttgtaaatgc tgttacgacc atgtcatatc aacatcacat aaattagtct tgtctgttaa tccgtatgtt
 601  tgcaatgctc caggttgtga tgtcacagat gtgactcaac tttacttagg aggtatgagc tattattgta aatcacataa accacccatt agttttccat
 701  tgtgtgctaa tggacaagtt tttggtttat ataaaaatac atgtgttggt agcgataatg ttactgactt taatgcaatt gcaacatgtg actggacaaa
 801  tgctggtgat tacattttag ctaacacctg tactgaaaga ctcaagcttt ttgcagcaga aacgctcaaa gctactgagg agacatttaa actgtcttat
 901  ggtattgcta ctgtacgtga agtgctgtct gacagagaat tacatctttc atgggaagtt ggtaaaccta gaccaccact taaccgaaat tatgtcttta
1001  ctggttatcg tgtaactaaa aacagtaaag tacaaatagg agagtacacc tttgaaaaag gtgactatgg tgatgctgtt gtttaccgag gtacaacaac
1101  ttacaaatta aatgttggtg attattttgt gctgacatca catacagtaa tgccattaag tgcacctaca ctagtgccac aagagcacta tgttagaatt
1201  actggcttat acccaacact caatatctca gatgagtttt ctagcaatgt tgcaaattat caaaaggttg gtatgcaaaa gtattctaca ctccagggac
1301  cacctggtac tggtaagagt cattttgcta ttggcctagc tctctactac ccttctgctc gcatagtgta tacagcttgc tctcatgccg ctgttgatgc
1401  actatgtgag aaggcattaa aatatttgcc tatagataaa tgtagtagaa ttatacctgc acgtgctcgt gtagagtgtt ttgataaatt caaagtgaat
1501  tcaacattag aacagtatgt cttttgtact gtaaatgcat tgcctgagac gacagcagat atagttgtct ttgatgaaat ttcaatggcc acaaattatg
1601  atttgagtgt tgtcaatgcc agattacgtg ctaagcacta tgtgtacatt ggcgaccctg ctcaattacc tgcaccacgc acattgctaa ctaagggcac
1701  actagaacca gaatatttca attcagtgtg tagacttatg aaaactatag gtccagacat gttcctcgga acttgtcggc gttgtcctgc tgaaattgtt
1801  gacactgtga gtgctttggt ttatgataat aagcttaaag cacataaaga caaatcagct caatgcttta aaatgtttta taagggtgtt atcacgcatg
1901  atgtttcatc tgcaattaac aggccacaaa taggcgtggt aagagaattc cttacacgta accctgcttg gagaaaagct gtctttattt caccttataa
2001  ttcacagaat gctgtagcct caaagatttt gggactacca actcaaactg ttgattcatc acagggctca gaatatgact atgtcatatt cactcaaacc
2101  actgaaacag ctcactcttg taatgtaaac agatttaatg ttgctattac cagagcaaaa gtaggcatac tttgcataat gtctgataga gacctttatg
2201  acaagttgca atttacaagt cttgaaattc cacgtaggaa tgtggcaact ttacaataaa ggcgcgccag tatactctag agtcgacacc cggggaattc
2301  ctcgagcgct cgtctctagc ttggcgtaat catggtcata gctgtttcct gtgtgaaatt gttatccgct cacaattcca cacaacatac gagccggaag
2401  cataaagtgt aaagcctggg gtgcctaatg agtgagctaa ctcacattaa ttgcgttgcg ctcactgccc gctttccagt cgggaaacct gtcgtgccag
2501  ctgcattaat gaatcggcca acgcgcgggg agaggcggtt tgcgtattgg gcgctcttcc gcttcctcgc tcactgactc gctgcgctcg gtcgttcggc
2601  tgcggcgagc ggtatcagct cactcaaagg cggtaatacg gttatccaca gaatcagggg ataacgcagg aaagaacatg tgagcaaaag gccagcaaaa
2701  ggccaggaac cgtaaaaagg ccgcgttgct ggcgtttttc cataggctcc gccccctga cgagcatcac aaaaatcgac gctcaagtca gaggtggcga
2801  aacccgacag gactataaag ataccaggcg tttcccccctg gaagctccct cgtgcgctct cctgttccga ccctgccgct taccggatac ctgtccgcct
2901  ttctcccttc gggaagcgtg gcgctttctc aatgctcacg ctgtaggtat ctcagttcgg tgtaggtcgt tcgctccaag ctgggctgtg tgcacgaacc
3001  ccccgttcag cccgaccgct gcgccttatc cggtaactat cgtcttgagt ccaacccggt aagacacgac ttatcgccac tggcagcagc cactggtaac
3101  aggattagca gagcgaggta tgtaggcggt gctacagagt tcttgaagtg gtggcctaac tacggctaca ctagaaggac agtatttggt atctgcgctc
3201  tgctgaagcc agttaccttc ggaaaaagag ttggtagctc ttgatccggc aaacaaacca ccgctggtag cggtggtttt tttgtttgca agcagcagat
3301  tacgcgcaga aaaaaaggat ctcaagaaga tcctttgatc ttttctacgg ggtctgacgc tcagtggaac gaaaactcac gttaagggat tttggtcatg
3401  agattatcaa aaaggatctt cacctagatc cttttaaatt aaaaatgaag ttttaaatca atctaaagta tatatgagta aacttggtct gacagttacc
3501  aatgcttaat cagtgaggca cctatctcag cgatctgtct atttcgttca tccatagttg cctgactccc cgtcgtgtag ataactacga tacgggaggg
3601  cttaccatct ggccccagtg ctgcaatgat accgcgagac ccacgctcac cggctccaga tttatcagca ataaaccagc cagccggaag ggccgagcgc
3701  agaagtggtc ctgcaacttt atccgcctcc atccagtcta ttaattgttg ccgggaagct agagtaagta gttcgccagt taatagtttg cgcaacgttg
3801  ttgccattgc tacaggcatc gtggtgtcac gctcgtcgtt tggtatggct tcattcagct ccggttccca acgatcaagg cgagttacat gatcccccat
3901  gttgtgcaaa aaagcggtta gctccttcgg tcctccgatc gttgtcagaa gtaagttggc cgcagtgtta tcactcatgg ttatggcagc actgcataat
4001  tctcttactg tcatgccatc cgtaagatgc ttttctgtga ctggtgagta ctcaaccaag tcattctgag aatagtgtat gcggcgaccg agttgctctt
4101  gcccggcgtc aatacgggat aataccgcgc cacatagcag aactttaaaa gtgctcatca ttggaaaacg ttcttcgggg cgaaaactct caaggatctt
4201  accgctgttg agatccagtt cgatgtaacc cactcgtgca cccaactgat cttcagcatc ttttactttc accagcgttt ctgggtgagc aaaaacagga
4301  aggcaaaatg ccgcaaaaaa gggaataagg gcgacacgga aatgttgaat actcatactc ttcctttttc aatattattg aagcatttat cagggttatt
4401  gtctcatgag cggatacata tttgaatgta tttagaaaaa taaacaaata ggggttccgc gcacatttcc ccgaaaagtg ccacctgacg tctaagaaac
4501  cattattatc atgacattaa cctataaaaa taggcgtatc acgaggccct ttcgtc
```

## > RDC3125 Translated Insert Sequence

```
   1  mavgacvlcn sqtslrcgac irrpflcckc cydhvistsh klvlsvnpyv cnapgcdvtd vtqlylggms yyckshkppi sfplcangqv fglykntcvg
 101  sdnvtdfnai atcdwtnagd yilantcter lklfaaetlk ateetfklsy giatvrevls drelhlswev gkprpplnrn yvftgyrvtk nskvqigeyt
 201  fekgdygdav vyrgtttykl nvgdyfvlts htvmplsapt lvpqehyvri tglyptlnis defssnvany qkvgmqkyst lqgppgtgks hfaiglalyy
 301  psarivytac shaavdalce kalkylpidk csriiparar vecfdkfkvn stleqyvfct vnalpettad ivvfdeisma tnydlsvvna rlrakhyvyi
 401  gdpaqlpapr tlltkgtlep eyfnsvcrlm ktigpdmflg tcrrcpaeiv dtvsalvydn klkahkdksa qcfkmfykgv ithdvssain rpqigvvref
 501  ltrnpawrka vfispynsqn avaskilglp tqtvdssqgs eydyviftqt tetahscnvn rfnvaitrak vgilcimsdr dlydklqfts leiprrnvat
 601  lq
```