

Specifications:

Gene:	MERS Nucleocapsid
Accession:	YP_007188586.1
Insert size:	1249bp
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

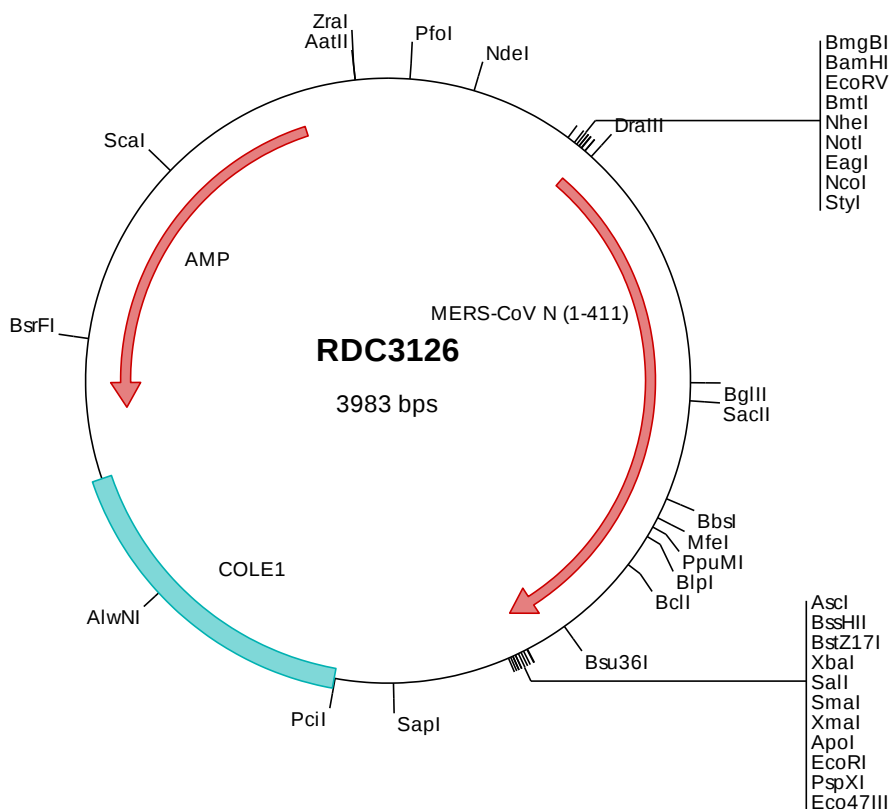
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

MERS Nucleocapsid cDNA Plasmid

N N protein [*Betacoronavirus* *England 1*]

Summary:

MERS Nucleocapsid packages the positive strand viral genome RNA into a helical ribonucleocapsid (RNP) and plays a fundamental role during virion assembly through its interactions with the viral genome and membrane protein M. It plays an important role in enhancing the efficiency of subgenomic viral RNA transcription as well as viral replication.



> RDC3126 Plasmid DNA Sequence

```

1   tcgcgcgcttt cggatgatgac ggtgaaaacc tctgacacat gcagctcccc gagacgggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg ctttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201  ccgcacacgat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctcgcg aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
301  tacgccagct ggcgaaaagg ggaatgtctg caaggcgatt aagttgggta agccagggtt tttcccgatc acgacgttgt aaaacgacgg ccagtgaatt
401  ggagacgtgt taacaagctt ggaatcgata tcgctagcgc ggcgcgcaacc atggcatccc ctgctgcacc tcgtgctgtt tcccttgcgc ataacaatga
501  tatacaaat acaaacctgt ctgcaggtag aggcagtaat ccaaaaccac gagctgcacc aaataacact gtctcttgggt acactgggct taccacaacac
601  gggaaagtcc ctcttacctt tccacctggg cagggtgtac ctcttaatgc caattccacc cctgcgcaaa atgctgggta ttggcggaga caggacagaa
701  aaattaatcac cgggaatgga attaaagcaac tggctcccag gtggtacttc tactacaact gaactggacc cgaagcagca ctcccattcc gggctgttaa
801  ggatggcatc gtttgggtcc atgaagatgg cgccactgat gctccttcaa cttttgggac gcggaaccct aacaatgatt cagctattgt tacacaattc
901  gcgcocggta ctaagcttcc taaaaacttc cacattgagg ggaactggagg caatagtcaa tcatcttcaa gagcctctag cgtaagcaga aactcttcca
1001 gatctagttc acaaggttca agatcaggaa actctaccgg cggcacttct ccagggtccat ctggaatcgg agcagtagga ggtgatctac tttaacctga
1101 tcttctgaac agactacaag cccttgagtc tggcaaahta aagcaatcgc agccaaaagt aatcactaag aaagatgctg ctgctgctaa aaataagatg
1201 cgccacaagc gcaactccac caaaagtctc aaactgtgac aagcttttgg tcttcgggca ccaggagacc tccagggaaa ctttggtagt cttcaattga
1301 ataaactcgc cacttgaggac ccaactgtgc cccaaattgc tgaacttctc cctacagcca gtgcttttat gggtagtgcg caatttaaac ttaccatca
1401 gaacaatgat gatcatggca accctgtgta cttccttcgg tacagtggag ccattaaact tgaccocaaag aatcccaact acaataagtg gttggagctt
1501 cttgagcaaa atattgatgc ctacaaaacc ttccctaaga aggaaaagaa acaaaaggca ccaaaagaag aatcaacaga ccaaatgtct gaacctctca
1601 agggacatcg tgtgcaaggt ctgcagcgca ctcgcaccgc tccaaagtgt ccaatgattga tgttaacact gattaaaggg gcgccagtat
1701 actctagagt cgacaccggg ggaattcctc gagcgtcgt ctctagcttg gcgtaatoat ggtcatagct gtttctgtg tgaattgtt atcgcctcac
1801 aattccacac aacatacag cccgaagcat aaagtgtaaa gcctgggggt cctaataagt gagctaaact acattaattg cgttgcgctc atgcgccgt
1901 ttccagtcgg gaaacctgtc gtgccaagtc cattaatgaa tcggccaacg cgcggggaga ggccggtttg gtattggcg ctcttcgct tctcgccta
2001 ctgactcgct ggcctcggtc gttcggtgct ggcgagcggt atcagctcac tcaaaaggcg taatacgggt atccacagaa ccaggggaga acgcaggaaa
2101 gaacatgtga gcaaaaggcc agcaaaaggc caggaaccgt aaaaaggccg cgttgctggc gtttttccat aggcctccgc gcatcacaac
2201 aatcgagctc caagtcagag gtggcgaaac cgcgacagac taaaaagata ccaaggcgttt ccagcgcttt gctcctcct gctcctcct
2301 tgccgcttac cggatacctg tccgcctttc tcccttcggg aagcgtggcg ctttctcaat gctcacgctg taggtatctc agttcggtgt aggtcgttcg
2401 ctccaagctg ggcgtgtgct acgaaccccc cgttcagccc gaccgtgctg ccttatccgg taactatcgt cttgagttca acccggtaa acacgactta
2501 tcgccactgc cagcagccac tggtaacagg attagcagag cgagggtatg aggcggtgct acagagtctc tgaagtgggt gcctaactac ggctacacta
2601 gaaggacagt atttggatc tgcgctctgc tgaagccagt taccttcgga aaaagagttg tagactcttg atccggcaaa caaaccaccg ctggtagcgg
2701 tggttttttt gtttgcaagc agcagattac gcgcagaaaa aaaggatctc aagaagatcc tttgatcttt tctacggggt gtggaacgaa
2801 aactcacgtt aagggatttt ggtcatgaga ttatcaaaaa ggatcttcc ctagatcctt ttaaaattaaa aatgaagttt taaatcaatc taaagtatat
2901 atgagtaaac ttgttctgac agttaccaat gcttaatcag tgaggcacct atctcagcga atctgtctatt tcgttcatcc atagtgtcct gactccccgt
3001 cgtgtagata actacgatac gggagggtct accatctggc cccagtgtcg caatgatacc gcgagacca cgctcaccgg ctccagattt atcagcaata
3101 aaccagccag ccggaagggc cgagcgcaga agtggtctcg caactttatc cgcctccatc cagtctatta attgttgccg ggaagctaga gtaagttagt
3201 cgccagttaa tagtttgcgc aacgttgttg ccatgtctac aggcacgtg gtgtcacgct cgtcgttttg tatggcttca ttcagctccg gttcccaacg
3301 atcaaggcga gttacatgat cccccatggt gtgcaaaaaa gcggttagct ccttcggtcc tccgatcgtt gtcagaagta agttggccgc agtggttatc
3401 ctcatggtta tggcagcact gcataattct cttactgtca tgccatccgt aagatgcttt tctgtgactg gtgagtactc aaccaagtca tcttgagaat
3501 atgtgatgcg gcgaccgagt tgcctttgcc cggcgctaat acgggataat accgcgccac atagcagaa tttaaaagt ctcacatgtt gaaaacggtt
3601 ttcggggcga aaactctcaa ggaacttacc gctgttgaga tccagtttga tgtaaccacc tcgtgcaccc aactgatctt cagcatcttt tactttcaac
3701 agcgtttctg ggtgagcaaa aacaggaagg caaaatgccg caaaaaaggg aataaggggc acacggaaat gttgaatact catactcttc ctttttcaat
3801 attattgaag catttatcag ggttattgtc tcatgagcgg atacatat tgaatgtatt agaaaaataa acaaataggg gttcccgcca catttcccg
3901 aaaagtgcc cctgacgtct aagaaaccat tattatcatg acattaacct ataaaaatag gcgtatcac aggccctttc gtc

```

> RDC3126 Translated Insert Sequence

```

1   maspaaprav sfadndditn tnlsrgrgrn pkpraapnnt vswygtlgtg kvpltfppg qgvplnanst pagnagywrr qdrkintgng ikqlaprwyf
101  yytgtgpeaa lpfravkdgi vvwshedgatd apstfgtrnp nndsaivtqf apgktlplknf hiegtggnsq sssrassvsv nssrrsssgs rsgnstrgts
201  pgpsgigavg gdillyldln rlqalesgkv ksqgpkvitk kdaaaaknm rhkrtstksf nmvgafglrg pgdlqgnfgd lqlnlktged prwpqiaela
301  ptasafmgms qfklthqnnd dhgnpvfyflr ysgaikldpk npnynkwlel leqnidaykt fpkkekkqka pkeestdqms eppkehrvqg tqrtrtrpsv
401  qpgpmidvnt d

```