

Product datasheet for **MR200115**

1810020G14Rik (BC005675) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: 1810020G14Rik (BC005675) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: 1810020G14Rik
Synonyms: 1810020G14Rik; 1810055I05Rik; BB388670
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR200115 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGATTGCGCCCGCTGTGTTGCGAGCTCTGCGTAAGAACAAGACTCTACGCTATGGAGTCCCATGTTGT
 TGCTGGTTGTTGGAGTTCTTTGGTCTTCGTGAATTTTCACAAATCCGGTACGATGCTGTGACAATTAA
 GATTGATCCTGAATTGGAGAAAAATTGAAAGTGAATAAAATAACTTTAGAGTCAGAGTATGAGAGGCTG
 TTATGTTTATTGTGCAGACAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR200115 protein sequence
 Red=Cloning site Green=Tags(s)
 MIAPAVLRALRKNKTLRYGVPMLLL VVGGSFGLREFSQIRYDAVTIKIDPELEKLLKVNKITLESEYERL
 LLLCRQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



[View online »](#)

Cloning Scheme:


ACCN: BC005675

ORF Size: 231 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [BC005675](#), [AAH05675](#)

RefSeq Size: 639 bp

RefSeq ORF: 233 bp

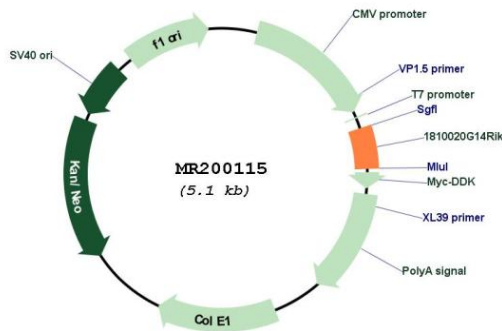
Locus ID: 66272

Cytogenetics: 12 D1

MW: 8.9 kDa

Gene Summary: Required for the assembly of the mitochondrial respiratory chain complex IV (CIV), also known as cytochrome c oxidase. Promotes the insertion of copper into the active site of cytochrome c oxidase subunit II (MT-CO2/COX2). Interacts specifically with newly synthesized MT-CO2/COX and its copper center-forming metallochaperones SCO1, SCO2 and COA6. Probably facilitates MT-CO2/COX2 association with the MITRAC assembly intermediate containing MT-CO1/COX1, thereby participating in merging the MT-CO1/COX1 and MT-CO2/COX2 assembly lines.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR200115