

Product datasheet for MR202957

1700021F05Rik (NM_026411) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	1700021F05Rik (NM_026411) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	1700021F05Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR202957 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGTGCCTGGTGTCTCAGACTGCTCACAGGTGCTCTAAGGAAGCCAGATGCCTGGACCAGACTCTGGG
GTGTGATTCAGGGGACATCGTCACACAACTTTGTGCTTCCTGGAACCGATACTTGATTTTTCCAGTAC
CAAGTTAAACACATCAAATTATAAAACACTTTCCGTAACATTTCTCTCTGCGACTCCCAGAGCTTTTA
GTATCTCCAGAATGTTATTTTCCATTTCTATACGACTCAAAGCAATATAAACTCCAAAAATCTACGA
AAAAGACCCTGAAAAAGAGGCAGACGAAGAGGACTCCGACGAGGAGACCAGTTACCCCGAGAGGACGCA
GCAGGAGGAGGACTTGAGAGTGAGCCTGGTGTGGCGAAGGACTACAAAGACCTGGAAAAGTGGTGCAG
TCTTCCGGTACGACGTATCCTGAAGACGGCCTTGACGTGGGAGAAAACAAAGTAGAAGATGCATTCT
ACAAAGGTGAACTCAGACTGAATGGGGAGAAGTTGTGGAAGAAAAGCAGAACGGTGAAGTGGGAGATAC
CTTGGATCTCATCACTGGAGAGAACAAGAGACAGGAACAGAGGTGGTATGCGAATTCCTGAAAAAG
GTCTATGAAGAGAAGACTGAGAACGACAAGCACCGGGTGGTGTTCGCGCCGATGGAAGAGCTTAAAGCTGC
CTAAAAAGACTCTGTCTAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR202957 protein sequence
 Red=Cloning site Green=Tags(s)

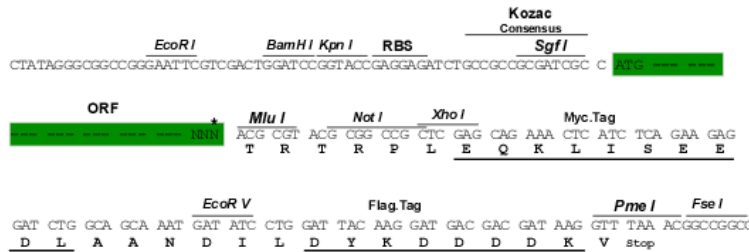
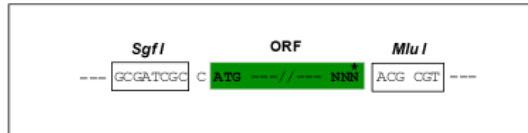
MAVPGVRLLTGALRKPDAWTRLWGVIQGTSSHKLCAWNRYL YFSSTKLNTSNYKTLFRNIFSLRPELL
 VSPECYFPFSIRLKSINSKKSTKKTLLQKEADEEDSDEETSYPERSEQEELESEPGVAKDYKDLEKVVQ
 SFRYDVILKLTGLDVGRNKVEDAFYKGLRLNGEKLWKKSRVVKVGDLDLITGENKETGTEVVMRILLKK
 VYEKTENDKHRVVLRRWKSLLPKKTL SK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_026411

ORF Size: 723 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: [NM_026411.2](#)

RefSeq Size: 898 bp

RefSeq ORF: 723 bp

Locus ID: 67851

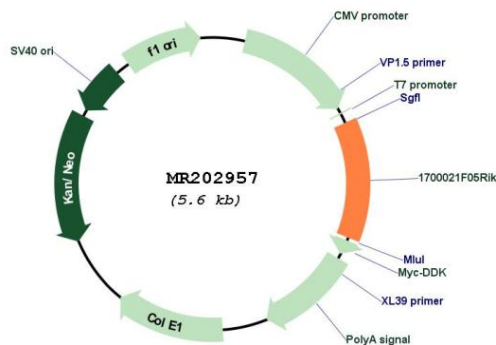
UniProt ID: [Q9CQF4](#)

Cytogenetics: 10 B2

MW: 27.8 kDa

Gene Summary: Mitochondrial RNA-binding protein involved in mitochondrial transcription regulation. Functions as a protective factor to maintain proper mitochondrial RNA level during stress. Acts at the transcription level and its protective function depends on its RNA binding ability. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR202957