

Product datasheet for **MR212532**

2310057M21Rik (NM_026655) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	2310057M21Rik (NM_026655) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	2310057M21Rik
Synonyms:	3110040E10Rik; AI429544
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR212532 representing NM_026655
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGACCGCGATCGAAGACGCGGGACTGGACCGCGGCCGACGCTGACCTCGTCTGGGATGCGGCGT
 GCGGGGCGCTGACCCAAAGCCTTTTTCTTACCCGACTGGCCACGTGCCAAGACTTGGACTTCGAGCA
 GCTACTGGAGCCGCCAGCTCCGAGCCAGGATCCGGTTAGTCTGAAAAGCAGCCTGAGCCCCGAGATGAA
 AACCCCTGCTTACCTTACCTGAAGTACTTGGCCCTAATGGGGGTGAAGAAATCCTTTTCGTTGGCGTCTGA
 GTTCAGCAAGAAACATGGAAGTACTTAGGAGAGGAGTATTGTGAACAGTCGAGGCAAGACTGCCTG
 CACTGCTCTGGATGACAGTGAACATGAAAAGATCTTGTATACAAAAATACCTAAAATTGGATTCTCC
 ACGCATGCCTGTAATAAAGCTGTTGTCCTTCGGGGAGAAGCAGTGTGTCTTGCAGTAAAGTGGTGG
 TGCCTTGAAGCCACGGTCTGCAGATCCTTACCAGCGCTCTGCTGCTCTGGGATCACGGATAGACCTTGA
 CAACATCAAACCATAATGGAGTCCATGGGGTCCAGGTTATCGCCTGGAGCGCAGCAGCTCATGAGCATG
 ATTAGGTTTCAGCAGCAGAAATCGTCTTCCCATCGGGGATCAGCTTCAGTCGGTGTGGGAAGCGCAGGAC
 ACAAGCATCTGATGGCGCTGCAGTCGTACCGTCTCCAGCAGTCTTAGACAAGGCATCCTCTACACCTTT
 CCCTTTTGAAGTGGATTGACCCCTTACGCCATCACTGAAAATTTAAAGGCTCTTATTGATAAAAAGCGCA
 CAGCCATCTGGAGAAGGAAATACCACAAACCACGATGAGGGTCACCTTATGCCACAAAACCATCCCTTG
 AAAGTGATCTTAAAAACGAGTGTCTTCTTTCTTACCAAAGAAGGCAAGCGGCAGCTCAAGTGTGCCAG
 CTCTGAGCTGTGCCTTTTCTCCAGAACTTATGTAGTCAGGTCAACCATCTCCCGTGGGACATAATGCC
 AGGTGGCAAGAAAACATCTCAAGCCCCGAGAGGGCATGGTCGGGGTCCGATGGAAGAGCAGCCTGTTT
 GCTCCTACTTGGAAAAGATTCTTTCTAAAAACATGGAAGTGGAAAAGAAGCTTATGGACCACATTGA
 TGAGAGGATCTATCAGCTCCAGGAACACATAGATGCTAAAAATGGCTTTGTTAGTGGACTTGTCTGCGAGGC
 CCCAACTCCCCACCCCGAGGATGCCTCTAAGACACTATGACTCCAGAGAAGACTTTCCAATGGAGAAA
 GA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR212532 representing NM_026655
 Red=Cloning site Green=Tags(s)

METAIEDAGLDRGPTLTSSWDAACGAL TQSL FL TRTGPRAQDLDFEQLLEPPAPSQDPVSLKSSLSPRDE
 NPCFIYLNCGPNGGEEILSVGVLSSARNMEVYLGEEYCGTSRGKTA CTVLDDSEHEKILLYKYLKLDSP
 THACKIKLLSFGEKQCVLVSKVVVHLRPRSADPSPRSAALGSRIDLNIQTIMESMGSR LSPGAQQLMSM
 IRFQQNRLPIGDQLQSVLGSAGHKHLMALQSSPSPAVLDKASSTPPFRFTGLTPSAITENLKALIDKSA
 QPSGEGNTTNHDEGHLMPQNHSLKNAVSSFLPKKASGSSVPSSELLPFLQNLCSQVNHRLRVGHNA
 RWQENISKPREGMVGVPMEEQPVCYSLEKILSKNMELMEKKLMDHIDERIYQLQEHIDAKMALLVDLLRG
 PNSPPPGMPLRHYSRERLSNGER

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9060_a12.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_026655

ORF Size: 1332 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_026655.4](#)

RefSeq Size: 2214 bp

RefSeq ORF: 1335 bp

Locus ID: 68277

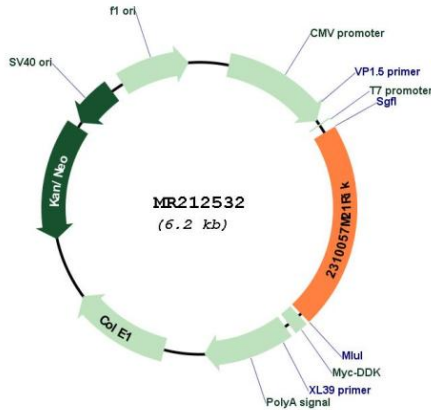
UniProt ID: [Q9D2Q3](#)

Cytogenetics: 7 F3

MW: 48.7 kDa

Gene Summary: ATPase that regulates mitochondrial ABC transporters ABCB7, ABCB8/MITOSUR and ABCB10. Regulates mitochondrial ferric concentration and heme biosynthesis and plays a role in the maintenance of mitochondrial homeostasis and cell survival.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR212532