

Product datasheet for MR203517

Tmem70 (NM_027415) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmem70 (NM_027415) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tmem70
Synonyms:	1110020A09Rik; 2210416J16Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203517 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGTTGGGGTTGGGCGGCCGGTGGGCAGCGGGCCTATGGCCGGGCCGGACGAGGACGACGTGGTGTG
TGGCCGCCGCGCTCCGAGGTTCCGGGATCGTTTCTGGCGTGCCGCTCGCTAGCCGAGCCAGAGCGGCT
GCGGAGCGCGGGCATCTAGCGCTAGCCGAGTCTTGGCGGCCACCCGGGCGAGCGCAGATACCTGTTTGT
TGGGAACGATGTGTCCGCTGCTCCATACACAAGTTGATAAGCCAGAAAATGGCAGGCTGATTTACTG
GAAACCTGGCCCGAACGATATTTGGTGTGAAATGTTTCTTATTCTACAAGTGTGTCAGCCTTGCAAT
CTTGCCGTACCTTCTCTACAAAATAACATGATGTTTGAAGTCTGCCTTTGCAAGTCTTATTTTACGGA
GTCATGGGAAGCTTCACAGTGATCACTCCACGCTGCTTACCTTCTTACAAAAGGCTATGTCATTCCGGT
TGTATCATGAAGCCACAAGTGACACTTACAGAGCTGTCACTTACAATGTTATGCTTTGGAACCAGCAC
AGTGTTCACCAAGACGACGTGACAATCCAGAGAGCGCACATATATCCACGCTTTTATGCTAAAAACA
AAATCGCTATTAGTTAATCCAGCACTTTTTAAACCCTGAAGACTATAACCATCTAATGGGTTATGACA
AACCGTCACTTTTGATATGGAAGAAGTCGCTGAAAAGAACTGCATGAGGGTAAAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203517 protein sequence
 Red=Cloning site Green=Tags(s)

MLLGLGGRWAAGLWPGRTRTTWCVAAALRGSGIAFWRAASLAEPERLRSGGHLALAESCPPPGRQAQIPVC
 WERCVRFCFHTQVDKPEGRLIYTGNLARTIFGVKCFSSYSTSVVSLAFLPYLLSQNNMMFGSLPLQVLFYG
 VMGSFTVITPTLLHLLTKGYVIRLYHEATSDTYRAVTYNVMLSETSTVFHQDDVTIPESAHIFTSFYAKT
 KSLLVNPAFLNPEYDNLHMGYDKPFTFDMEEVAEKKLHEGK

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_027415

ORF Size: 762 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_027415.2](#), [NP_081691.2](#)

RefSeq Size: 1729 bp

RefSeq ORF: 762 bp

Locus ID: 70397

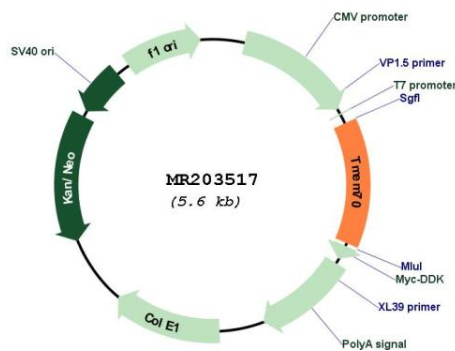
UniProt ID: [Q921N7](#)

Cytogenetics: 1 A3

MW: 28.3 kDa

Gene Summary: Involved in biogenesis of mitochondrial ATP synthase.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203517