

Product datasheet for **MR210158**

Trap1 (NM_026508) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|------------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | Trap1 (NM_026508) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Trap1 |
| Synonyms: | 2410002K23Rik; HSP75 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



[View online »](#)

ORF Nucleotide
Sequence:

>MR210158 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGTGCAGCTGCGAGCTGTGTTGCTGTGGGGCCCGGGCTGCAGACTGTACTGCGGGCCCCGCGC
TGGCTGGAGTTCGGCGAGGAAAGCCAGTTCTGCACCTTACAAGACTACAGTCCAGTTTAGGGGCCCCAC
ACAAAGTCTGGTTCAGGGATCTCTGCAGGACAGTTATACAGCACACAGGCAGCCGAGGACAAGGAGGAG
GAGAGCCTGCACTCCATCATCAGCAACTGAGGCAGTGCGGGTTCTGTCTCCAAACATGAGTTCCAGG
CAGAGACAAAGAACTTTTGGACATCGTAGCCGTTCTCTGTACTCAGAAAAAGAGGTGTTCCATACGAGA
GCTCATCTCCAATGCCAGTGATGCCTTGGAGAACTGCGGCACAAGCTGGTGTGTGAAGGCCAGGTGCTG
CCAGAAATGGAGATTCACCTTCAGACGGATGCCAAGAAGGGCACTATTACCATTCCAGGACTGGCATTG
GGATGACACAGGAGGAGCTGGTGTCCAACCTTGGCACAATTGCCAGATCGGGGTCAAAGGCCCTTCTGGA
AGCACTGCAGAACCAGGCAGAGACCAGCAGCAAGATCATTGGTCAGTTTGGAGTGGGTTTCTATTACGCC
TTCATGGTAGCTGACAAGGTTGAAGTCTATTCTCGATCAGCAGCTCCAGAGAGCCAGGTTACCAGTGGC
TTTCAGATGGTTCTGGAGTGTGAAATTGCCGAAGCTTCAGGAGTTAGACCTGGGACAAAATAATCAT
CCACCTCAAGTCAGACTGTAAGATTTTCCAGCGAGTCCCGGTACAAGATGTGGTAACAAAGTACAGT
AACTTTGTGAGCTTCCCCTTGTACCTTAATGAAAAGCGGATTAACACTTTGCAGGCCATCTGGATGATGG
ACCCAAAGGACATCAGTGAATTCAGCATGAGGAATCTACCGTTATATTGCTCAGGCTTATGATAAGCC
CCGCTTCACTTTGCACTACAAGACGGACGACCACTCAACATCCGCAGCATCTTCTATGTGCCAGAGATG
AAACCATCCATGTTTGTGTGAGCAGGGAGCTGGGCTCCAGCGTGGCACTGTATAGCCGCAAGGTCTCA
TCCAGACCAAGGCTGCAGACATCTGCCAAGTGGTGCCTTCATTTCGAGGTGTGGTGGATAGTGAGGA
CATTCCCCTGAACCTCAGCAGAGAGCTCCTGCAGGAGAGTGCCTCATCCGGAAACTCCGGGATGTTCTA
CAACAGAGATTGATCAAGTCTTCATTGACCAGAGTAAAAAAGATGCTGAAAAATACGAAAAGTTTTTTG
AAGATTATGGCTTGTTCATGAGGGAGGGCATTGTGACCACTGCAGAGCAAGACATCAAGGAGGATATTGC
AAAAGTGTACGGTATGAGTCTCAGCCCTGCCTGCTGGGCAGCTGACCAGCTTACCAGACTATGCCAGC
CGAATGCAGGCTGGCACCCGCAACATCTATTACCTGTGTGCCCTAACCGTCACCTGGCTGAACATTAC
CCTATTACGAAGCCATGAAGCAGAAACATACTGAGGTGCTTCTGCTATGAGCAGTTCGATGAGCTTAC
TCTGCTGCACCTGAGGGAGTTTGACAAGAAGAAGCTCATCTCTGTGAAACAGACATCGTCGTTGATCAC
TACAAGGAGGAAAAGTTTGAAGACATCTCCAGCTGATGAGCGCCTCTCGGAGAAGGAAACAGAAGATC
TAATGGCGTGGATGAGAAATGCACTAGGGTCCCGTGTACCAATGTGAAGGTGACTTCCGCTAGACAC
CCACCCTGCCATGGTGACCGTGCTGGAGATGGGGCTGCTCGGCATTTCTTGCGTATGCAGCAGCTGGCC
AAGACCCAGGAGGAACGTGCCAACTGCTACAGCCCACTGGAGATCAACCCAGGCACACACTGATAA
AGAAGCTCTGCCAGCTGAGGGAGAGCGAGCCGGAGCTGGCCAGCTGCTCGTGGATCAGATCTATGAGAA
TGCCATGATAGCAGCAGGACTCGTTGATGACCCCCGGGCCATGGTCGGCCGCTGAACGACCTTTTGTC
AAGTCTGGAGAAACAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210158 protein sequence
 Red=Cloning site Green=Tags(s)

MACELRAVLLWGRGLQTVLRAPALAGVRRGKPVHLHLQKTTVQFRGPTQSLASGISAGQLYSTQAAEDKEE
 ESLHSIISNTEAVRGSVSKHEFQAETKKLLDIVARSLYSEKEVFIRELISNASDALEKLRHKLVCEGOVL
 PEMEIHQLQTDAKKGTITIQDTGIGMTQEELVSNLGTIARSGSKAFLEALQNAETSSKIIGQFVGFYSA
 FMVADKVEVYSRSAAPESPGYQWLSDGSGVFEIAEASGVRPGTKIIHLKSDCKDFASESRVQDVVTKYS
 NFVSFPLYLNGKRINTLQAIWMDPKDISEFQHEEFYRYIAQAYDKPRFTLHYKTDAPLNIRSIFYVPEM
 KPMSFDVSRELGSSVALYSRKVLIQTKAADILPKWLRFRIGVVDSEDIPLNLSRELLQESALIRKLRDVL
 QQRLIKFFIDQSKKDAEKYAKFFEDYGLFMREGIVTTAEQDIKEDIKLLRYESSALPAGQLTSLPDYAS
 RMQAGTRNIYYLCAPNRHLAEHSPYYEAMKQKHTEVLFCEYQFDELTLHLREFDKKLLISVETDIVVDH
 YKEEFEDTSPADERLSEKETEDLMAWMRNALGSRVTNVKVTFRDLTHPAMVTVLEMGAARHFLRMQQLA
 KTQEERAQLLQPTLEINPRHTLIKKLQQLRESEPELAQLLVDQIYENAMIAAGLVDDPRAMVGRINDLLV
 KVLEKH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_026508

ORF Size: 2121 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_026508.2](#), [NP_080784.1](#)

RefSeq Size: 2297 bp

RefSeq ORF: 2121 bp

Locus ID: 68015

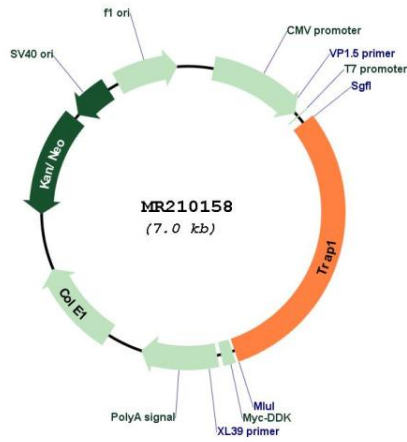
UniProt ID: [Q9CQN1](#)

Cytogenetics: 16 2.38 cM

MW: 80.2 kDa

Gene Summary: Chaperone that expresses an ATPase activity. Involved in maintaining mitochondrial function and polarization, downstream of PINK1 and mitochondrial complex I. Is a negative regulator of mitochondrial respiration able to modulate the balance between oxidative phosphorylation and aerobic glycolysis. The impact of TRAP1 on mitochondrial respiration is probably mediated by modulation of mitochondrial SRC and inhibition of SDHA.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210158