

## Product datasheet for **MC220656**

### Trap1 (NM\_026508) Mouse Untagged Clone

#### Product data:

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



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**Fully Sequenced ORF:** >MC220656 representing NM\_026508  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGTGCAGCTGCGAGCTGTGTTGCTGTGGGGCCCGGGCTGCAGACTGTACTGCGGGCCCCGCGC  
 TGGCTGGAGTTCGGCGAGGAAAGCCAGTTCTGCACCTTCAGAAGACTACAGTCCAGTTTAGGGGCCCCAC  
 ACAAAGTCTGGCTTCAGGGATCTCTGCAGGACAGTTATACAGCACACAGGCAGCCGAGGACAAGGAGGAG  
 GAGAGCCTGCACTCCATCATCAGCAACTGAGGCAGTGCGGGTTCTGTCTCCAAACATGAGTTCCAGG  
 CAGAGACAAAGAACTTTTGGACATCGTAGCCGTTCTGTACTCAGAAAAAGAGGTGTTCCATACGAGA  
 GCTCATCTCCAATGCCAGTGATGCCTTGGAGAACTGCGGCACAAGCTGGTGTGTGAAGGCCAGGTGCTG  
 CCAGAAATGGAGATTCACCTTCAGACGGATGCCAAGAAGGGCACTATTACCATTCCAGGACTGGCATTG  
 GGATGACACAGGAGGAGTGGTCCAACCTTGGCACAATTGCCAGATCGGGGTCAAAGGCCCTTCTGGA  
 AGCACTGCAGAACCAGGCAGAGACCAGCAGCAAGATCATTGGTCAGTTTGGAGTGGGTTTCTATTACGCC  
 TTCATGGTAGCTGACAAGGTTGAAGTCTATTCTCGATCAGCAGCTCCAGAGAGCCAGGTTACCAGTGGC  
 TTTGAGATGGTTCTGGAGTGTGAAATTGCCGAAGCTTCAGGAGTTAGACCTGGGACAAAATAATCAT  
 CCACCTCAAGTCAGACTGTAAGATTTTCCAGCGAGTCCCGGTACAAGATGTGGTAACAAAGTACAGT  
 AACTTTGTGAGCTTCCCCTTGTACCTTAATGGAAGCGGATTAACACTTTGCAGGCCATCTGGATGATGG  
 ACCCAAAGGACATCAGTGAATTCAGCATGAGGAATCTACCGTTATATTGCTCAGGCTTATGATAAGCC  
 CCGCTTCACTTTGCACTACAAGACGGACGCCACTCAACATCCGCAGCATCTTCTATGTGCCAGAGATG  
 AAACCATCCATGTTTGTGTGAGCAGGGAGCTGGGCTCCAGCGTGGCACTGTATAGCCGCAAGGTCTCA  
 TCCAGACCAAGGCTGCAGACATCTGCCAAGTGGTGCCTTCATTGAGGTGTGGTGGATAGTGAGGA  
 CATTCCCCTGAACCTCAGCAGAGAGCTCCTGCAGGAGAGTGCCTCATCCGGAAACTCCGGGATGTTCTA  
 CAACAGAGATTGATCAAGTCTTCTATTGACCAGAGTAAAAAAGATGCTGAAAAATACGAAAATTTTTTG  
 AAGATTATGGCTTGTTCATGAGGGAGGGCATTGTGACCACTGCAGAGCAAGACATCAAGGAGGATATTGC  
 AAAACTGCTACGGTATGAGTCTCAGCCCTGCCTGCTGGGCAGCTGACCAGCTTACCAGACTATGCCAGC  
 CGAATGCAGGCTGGCACCCGCAACATCTATTACCTGTGTGCCCTAACCGTCACCTGGCTGAACATTAC  
 CCTATTACGAAGCCATGAAGCAGAAACATACTGAGGTGCTTCTGCTATGAGCAGTTCGATGAGCTTAC  
 TCTGCTGCACCTGAGGGAGTTTGACAAGAAGAAGCTCATCTGTGGAACAGACATCGTCGTTGATCAC  
 TACAAGGAGGAAAAGTTTGAAGACATCTCCAGCTGATGAGCGCCTCTCGGAGAAGGAAACAGAAGATC  
 TAATGGCGTGGATGAGAAATGCACTAGGGTCCCGTGTACCAATGTGAAGGTGACTTCCGCTAGACAC  
 CCACCTGCCATGGTGACCGTGTGGAGATGGGGCTGCTCGGCATTTCTTGCATGACAGCAGTGGCC  
 AAGACCCAGGAGGAACGTGCCAACTGCTACAGCCCACTGGAGATCAACCCAGGCACACACTGATAA  
 AGAAGCTCTGCCAGCTGAGGGAGAGCGAGCCGGAGCTGGCCAGCTGCTCGTGGATCAGATCTATGAGAA  
 TGCCATGATAGCAGCAGGACTCGTTGATGACCCCCGGGCCATGGTCGGCCGCTGAACGACCTTTTGGTC  
 AAGTCTGGAGAAACTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1821\\_h10.zip](https://cdn.origene.com/chromatograms/ja1821_h10.zip)

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_026508

**Insert 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](mailto: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](#)

**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:** [BC022912](#), [AAH22912](#)

**RefSeq Size:** 2297 bp

**RefSeq ORF:** 2121 bp

**Locus ID:** 68015

**UniProt ID:** [Q9CQN1](#)

**Cytogenetics:** 16 2.38 cM

**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]