

Product datasheet for **RG234658**

Hsp75 (TRAP1) (NM_001272049) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hsp75 (TRAP1) (NM_001272049) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hsp75
Synonyms:	HSP 75; HSP75; HSP90L; TRAP-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234658 representing NM_001272049
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCGAGCTGCGGGCGTCTGCTGTGGGGCCCGCCTGCGGCCTTTGCTGCGGGCCCGGCGC
 TGGCGCCGTGCCGGGAGTTCCAATCCAACATGAGTTCCAGGCCGAGACAAAGAAGCTTTTGACAT
 TGTGCCCGTCCCTGTACTCAGAAAAAGAGGTGTTTATACGGGAGCTGATCTCCAATGCCAGCATGCC
 TTGAAAAACTGCGTCACAACTGGTGTCTGACGGCAAGCACTGCCAGAAATGGAGATTCACTGCAGA
 CCAATGCCGAGAAAGCACCATCACCATCCAGGATACTGGTATCGGGATGACACAGGAAGAGCTGGTGC
 CAACCTGGGGACGATTGCCAGATCGGGTCAAAGGCCTTCTGGATGCTGCAGAACAGGCTGAGGCC
 AGCAGCAAGATCATCGCCAGTTTGGAGTGGGTTTCTACTCAGCTTTCATGGTGGCTGACAGAGTGGAGG
 TCTATCCCGCTCGCCAGCCCCGGGAGCTGGGTTACCAGTGGCTTTCAGATGGTCTGGAGTGTGGA
 AATCGCGAAGCTTCGGGAGTTAGAACCGGACAAAAATCATCATCCACCTGAAATCCGACTGCAAGGAG
 TTTTCCAGCGAGGCCCGGTGCGAGATGTGGTAACGAAGTACAGCAACTCGTCAGCTTCCCTTGTACT
 TGAATGGAAGGCGGATGAACACCTTGCAGGCCATCTGGATGATGGACCCAAGGATGTCCGTGAGTGGCA
 ACATGAGGAGTTCTACCGCTACGTGCGCAGGCTCACGACAAGCCCCGCTACACCCTGACTATAAGACG
 GACGCACCGCTCAACATCCGAGCATCTTCTACGTGCCGACATGAAACCGTCCATGTTTGTGAGCC
 GGGAGCTGGGCTCCAGCGTTGCACTGTACAGCCGCAAAGTCCATCCAGACCAAGGCCACGGACATCT
 GCCCAAGTGGCTGCGCTTTCATCCGAGGTGGTGGACAGTGGAGACATCCCTGAACTCAGCCGGGAG
 CTGCTGCAGGAGAGCGCACTCATCAGGAACTCCGGGACGTTTTACAGCAGAGGCTGATCAAATCTTCA
 TTGACCAGAGTAAAAAGATGCTGAGAAGTATGCAAAGTTTTTTGAAGATTACGGCTGTTATCGCGGA
 GGGCATTGTACCGCCACCGAGCAGGAGTCAAGGAGGACATAGCAAAGCTGCTGCGCTACGAGTCCCTCG
 GCGCTGCCCTCCGGGACGCTAACAGCCTCTCAGAATACGCCAGCCGATGCGGGCCGGCACCCGCAACA
 TCTACTACCTGTGCGCCCCAACCGTCACTGGCAGAGCACTCACCTACTATGAGGCCATGAAGAAGAA
 AGACACAGAGTTCTTCTGCTTTGAGCAGTTTGTGAGCTCACCTGCTGCACCTTGTGAGTTTGTGAC
 AAGAAGAAGTGTCTCTGTGGAGACGGACATAGTCGTGGATCACTACAAGGAGGAGAAGTTTGGAGACA
 GGTCCCCAGCCCGAGTGCCTATCAGAGAAGGAGACGGAGGAGCTCATGGCCTGGATGAGAAATGTGCT
 GGGGTGCGGTGTACCAACGTGAAGGTGACCCTCCGACTGGACACCCACCCTGCCATGGTACCCTGCTG
 GAGATGGGGCTGCCCGCACTTCTGCGCATGCAGCAGCTGGCCAAGACCCAGGAGGAGCGCCACAGC
 TCCTGCAGCCACGCTGGAGATCAACCCAGGCACGCGCTCATCAAGAAGCTGAATCAGCTGCGCGCAAG
 CGAGCCTGGCCTGGCTCAGCTGCTGGTGGATCAGATATACGAGAACGCCATGATTGCTGCTGGACTTGT
 GACGACCTAGGGCCATGGTGGGCCGCTTGAATGAGCTGCTTGTCAAGGCCCTGGAGCGACAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG234658 representing NM_001272049
 Red=Cloning site Green=Tags(s)

MARELRALLLWGRRLRPLLAPALAAVPGGSTSKHEFQAETKLLDIVARSLYSEKEVFIRELISNASDA
 LEKLRHKLVSQALPEMEIHLQNAEKGTITIQDTGIGMTQEELVSNLGTIARSGSKAFDALQNQAEA
 SSKIIGQFVGFYSAFMADRVEVYSRSAAPGSLGYQWLSGSGVFEIAEASGVRTGKIIHLSCKE
 FSSEARVRDVVKYSNFVSFPLYLNGRRMNTLQAIWMDPKDVREWQHEEFYRYVAQHDKPRYTLHYKT
 DAPLNIRSIIFYVPMKPSMFVDSRELGSSVALYSRKVLIQTKATDILPKWLRFIRGVVDSEDIPLNLSRE
 LLQESALIRKLRDVLQQRLIKFFIDQSKKDAEKYAKFFEDYGLFMREGIVTATEQEVKEDIKLLRYESS
 ALPSGQLTSLSEYASRMAGTRNIYYLCAPNRHLAEHSPYYEAMKKKDTEVLFCEQFDELTLHLREFD
 KKKLISVETDIVVDHYKEEFEDRSPAAECLSEKETEELMAWMRNVLSRVTVNVKVTLRDLTHPAMVTVL
 EMGAARHFLRMQQLAKTQEERAQLLQPTLEINPRHALIKKLNQLRASEPGLAQLLVDQIYENAMIAAGLV
 DDPGRAMVGRLNELLVKALERH

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_001272049

ORF Size: 1953 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_001272049.2](#)

RefSeq Size: 2153 bp

RefSeq ORF: 1956 bp

Locus ID: 10131

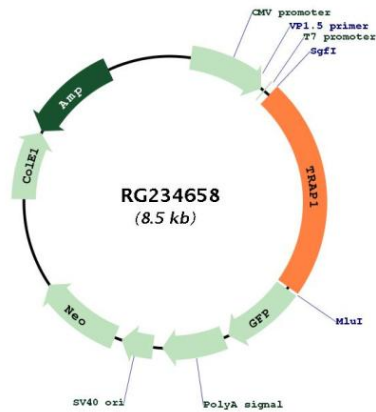
UniProt ID: [Q12931](#)

Cytogenetics: 16p13.3

Protein Families: Druggable Genome

Gene Summary: This gene encodes a mitochondrial chaperone protein that is member of the heat shock protein 90 (HSP90) family. The encoded protein has ATPase activity and interacts with tumor necrosis factor type I. This protein may function in regulating cellular stress responses. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jan 2013]

Product images:



Circular map for RG234658