

Product datasheet for **RG201397**

Grp75 (HSPA9) (NM_004134) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grp75 (HSPA9) (NM_004134) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Grp75
Synonyms:	CRP40; CSA; EVPLS; GRP-75; GRP75; HEL-S-124m; HSPA9B; MOT; MOT2; MTHSP75; PBP74; SAAN; SIDBA4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG201397 representing NM_004134
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGATAAGTGCCAGCCGAGCTGCAGCAGCCGCTCTCGTGGCGCCGCAGCCTCCCGGGCCCTACGGCCG
CCCGCCACCAGGATAGCTGGAATGGCCTTAGTCATGAGGCTTTTAGACTTGTTTCAAGGCGGATTATGC
ATCAGAAGCAATCAAGGGAGCAGTTGTTGGTATTGATTTGGTACTACCAACTCTGCGTGGCAGTTATG
GAAGGTAACGAGCAAAGGTGCTGGAGAATGCCGAAGGTGCCAGAACCACCCCTTCAGTTGTGGCCTTTA
CAGCAGATGGTGAGCGACTTGTGGAATGCCGGCCAAGCGACAGGCTGTCACCAACCCAAACAATACATT
TTATGCTACCAAGCGTCTCATTGGCCGGCGATATGATGATCCTGAAGTACAGAAAGACATTAATAATGTT
CCCTTTAAATTTGCCGTGCCTCCAATGGTGATGCCTGGGTTGAGGCTCATGGGAAATTGTATTCTCCGA
GTCAGATTGGAGCATTGTGTTGATGAAGATGAAAGAGACTGCAGAAAATTACTTGGGGCGCACAGCAA
AAATGCTGTGATCACAGTCCCAGCTTATTTCAATGACTCGCAGAGACAGGCCACTAAAGATGCTGGCCAG
ATATCTGGACTGAATGTGCTTCGGGTGATTAATGAGCCACAGCTGCTGCTCTTGCTATGGTCTAGACA
AATCAGAAAGACAAGTCATTGCTGTATATGATTTAGGTGGTGGAACTTTTGATATTTCTATCCTGGAAT
TCAGAAAGGAGTATTTGAGGTGAAATCCACAAATGGGGATACCTTCTTAGGTGGGGAAGACTTTGACCAG
GCCTTGCTACGGCACATTGTGAAGGAGTTCAAGAGAGAGACAGGGGTTGATTTGACTAAAGACAACATGG
CACTTCAGAGGGTACGGGAAGCTGCTGAAAAGGCTAAGTGTGAACTCTCCTCATCTGTGCAGACTGACAT
CAATTTGCCCTATCTTACAATGGATTCTTCTGGACCAAGCATTGAATATGAAGTTGACCCGTGCTCAA
TTTGAAGGGATTGCTACTGATCTAATCAGAAGGACTATCGCTCCATGCCAAAAGCTATGCAAGATGCAG
AAGTCAGCAAGAGTGACATAGGAGAAGTGATTCTTGTGGGTGGCATGACTAGGATGCCAAAGTTTCAGCA
GACTGTACAGGATCTTTTGGCAGAGCCCAAGTAAAGCTGTCAATCCTGATGAGGCTGTGGCCATTGGA
GCTGCCATTACAGGAGGTGTGTTGGCCGGCGATGTCACGGATGTGCTGCTCCTTGATGCTACTCCCTGT
CTCTGGGTATTGAAACTTAGGAGGTGCTTTACCAAATTTAATAAGGAATACCACTATTCCAACCAA
GAAGAGCCAGGTATTCTCTACTGCCGCTGATGGTCAAACGCAAGTGGAAATTAAGTGTGTCAGGGTGAA
AGAGAGATGGCTGGAGACAACAACTCCTTGGACAGTTTACTTTGATTGGAATCCACCAGCCCCTCGTG
GAGTTCCTCAGATTGAAGTTACATTTGACATTGATGCCAATGGGATAGTACATGTTTCTGCTAAAGATAA
AGGCACAGGACGTGAGCAGCAGATTGTAATCCAGTCTTCTGGTGGATTAAGCAAAGATGATATTGAAAT
ATGGTTAAAAATGCAGAGAAATATGCTGAAGAAGACCGGCGAAAGAAGGAACGAGTTGAAGCAGTTAATA
TGGCTGAAGGAATCATTACGACACAGAAACCAAGATGGAAGAATTCAAGGACCAATTACCTGCTGATGA
GTGCAACAAGCTGAAAGAAGAGATTTCCAAAATGAGGGAGCTCCTGGCTAGAAAAGACAGCGAAACAGGA
GAAAATATTAGACAGGCAGCATCCTCTCTTTCAGCAGGCATCATTGAAGCTGTTTCAAATGGCATAAAAA
AGATGGCATCTGAGCGAGAAGGCTCTGGAAGTTCTGGCACTGGGGAACAAAAGGAAGATCAAAGGAGGA
AAAACAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG201397 representing NM_004134
 Red=Cloning site Green=Tags(s)

MISASRAAAARLVGAAASRGPTAARHQDSWNL SHEAFRLVSRRDYASEAIKGA VVGIDLTGTTNSCVAVM
 EGKRAKVL ENAEGARTTPSVVAF TADGERLVGMPAKRQAVTNPNTFFYATKRLIGRRYDDPEVQKDIKNV
 PFKIVRASNGDAWVEAHGKLYSPSQIGAFVLMKMKETAENYLGR T AKNAVITVPAYFNDSQRQATKDAGQ
 ISGLNVLRVINEPTAAALAYGLDKSEDKVIAVYDLGGGTFDISILEIQKGVFEVKSTNGDTFLGGEDFDQ
 ALLRHIVKEFKRETGVDLTKDNMALQRVREAAEKAKCELSSSVQTDINLPYL TMDSSGPKHLNMKLTRAQ
 FEGIVTDLIRRTIAPCQKAMQDAEVS KSDI GEVILVGGMTRMPKVQQT VQDLFGRAPSKAVNPDEAVAIG
 AAIQGGVLAGDVTDVLLLDVTPLSLGIETLGGVFTKLINRNTTIPTKKSQVFSTAADGQTQVEIKVCQGE
 REMAGDNKLLGQFTLIGIPPAPRGVPQIEVTFDIDANGI VHS AKDKGTGREQQI VIQSSGGLSKDDIEN
 MVKNAEKYAEEDRRKKERVEAVNMAEGIIHDTETKMEEFKQQLPADECNKLKEEISKMRELLARKDSETG
 ENIRQAASLQQASLKL FEMAYKKMASEREGSGSSGTGEQKEDQKEEKQ

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

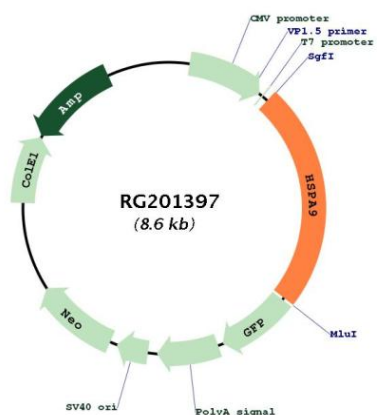


ACCN: NM_004134

ORF Size: 2037 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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_004134.2
RefSeq Size:	2883 bp
RefSeq ORF:	2040 bp
Locus ID:	3313
UniProt ID:	P38646
Cytogenetics:	5q31.2
Domains:	HSP70
Protein Families:	Stem cell - Pluripotency
Protein Pathways:	RNA degradation
Gene Summary:	<p>This gene encodes a member of the heat shock protein 70 gene family. The encoded protein is primarily localized to the mitochondria but is also found in the endoplasmic reticulum, plasma membrane and cytoplasmic vesicles. This protein is a heat-shock cognate protein. This protein plays a role in cell proliferation, stress response and maintenance of the mitochondria. A pseudogene of this gene is found on chromosome 2.[provided by RefSeq, May 2010]</p>

Product images:



Circular map for RG201397