

Product datasheet for **SC320242**

Grp75 (HSPA9) (NM_004134) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grp75 (HSPA9) (NM_004134) Human Untagged Clone
Tag:	Tag Free
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 (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene sequence for NM_004134.4
 GGAGCGCTGTTTGTGCTGCTCGTACTCCTCCATTTATCCGCCATGATAAGTGCCAGCCGA
 GCTGCAGCAGCCCGTCTCGTGGGCGCCGAGCCTCCCGGGGCCCTACGGCCGCCGCCAC
 CAGGATAGCTGGAATGGCCTTAGTCATGAGGCTTTAGACTTGTTC AAGGCGGGATTAT
 GCATCAGAAGCAATCAAGGGAGCAGTTGTTGGTATTGATTTGGTACTACCAACTCTGC
 GTGGCAGTTATGGAAGGTAACGAGCAAAGTGCTGGAGAATGCCGAAGTGCCAGAACC
 ACCCCTTCAGTTGTGGCCTTTACAGCAGATGGTGAGCGACTTGTGG AATGCCGGCCAAG
 CGACAGGCTGTACCAACCCAAACAATACATTTTATGCTACCAAGCGTCTCATTGGCCGG
 CGATATGATGATCCTGAAGTACAGAAAGACATTAATAATGTTCCCTTTAAAATTGTCCT
 GCCTCCAATGGTATGCCTGGGTTGAGGCTCATGGGAAATTGTATTCTCCGAGTCAGATT
 GGAGCATTGTGTGATGAAGATGAAAGAGACTGCAGAAAATTACTTGGGGCGCACAGCA
 AAAATGCTGTGATCACAGTCCCAGCTTATTTCAATGACTCGCAGAGACAGGCCACTAAA
 GATGCTGGCCAGATATCTGGACTGAATGTGCTTCGGGTGATTAATGAGCCACAGCTGCT
 GCTCTTGCTATGGTCTAGACAAATCAGAAGACAAAGTCATTGCTGTATATGATTTAGGT
 GGTGGAACTTTTGATATTTCTATCCTGGAAATTCAGAAAGGAGTATTTGAGGTGAAATCC
 ACAATGGGGATACCTTCTTAGGTGGGGAAGACTTTGACCAGGCCTTGCTACGGCACATT
 GTGAAGGAGTTCAAGAGAGAGACAGGGGTTGATTTGACTAAAGACAACATGGCACTTCAG
 AGGATACGGGAAGCTGCTGAAAAGGCTAAGTGTGAACTCTCCTCATCTGTGCAGACTGAC
 ATCAATTTGCCCTATCTTACAATGGATTCTTCTGGACCAAGCATTGAAATGAAGTTG
 ACCCGTGTCAATTTGAAGGGATTGCTACTGATCTAATCAGAAGGACTATCGCTCCATGC
 CAAAAAGCTATGCAAGATGCAGAAGTCAAGAGAGTACATAGGAGAAGTATTCTTGTG
 GGTGGCATGACTAGGATGCCAAGGTTCCAGCAGACTGTACAGGATCTTTTGGCAGAGCC
 CCAAGTAAAGCTGTCAATCCTGATGAGGCTGTGGCCATTGGAGCTGCCATTCAGGGAGGT
 GTGTTGGCCGGCGATGTACGGATGTGCTGCTCCTTGATGCTACTCCCTGTCTCTGGGT
 ATTGAAACTCTAGGAGGTGCTTTACCAAATTTAATAGGAATACCACTATTCCAACC
 AAGAAGAGCCAGGTATTCTACTGCCGCTGATGGTCAAACGCAAGTGGAAATTAAGTG
 TGTCAAGGTGAAAGAGAGATGGCTGGAGACAACAACTCCTTGGACAGTTTACTTTGATT
 GGAATTCACCAGCCCTCGTGGAGTTCCTCAGATTGAAGTTACATTTGACATTGATGCC
 AATGGGATAGTACATGTTCTGTAAAGATAAAGGCACAGGACGTGAGCAGCAGATTGTA
 ATCCAGTCTTCTGGTGGATTAAGCAAAGATGATATTGAAAATATGGTTAAAAATGCAGAG
 AAATATGTGAAGAAGACCGGCGAAAGAAGGAACGAGTTGAAGCAGTTAATATGGCTGAA
 GGAATCATTACGACACAGAAACCAAGATGGAAGAATTC AAGGACCAATTACCTGCTGAT
 GAGTGCAACAAGCTGAAAGAAGAGATTTCCAAAATGAGGGAGCTCCTGGCTAGAAAAGAC
 AGCGAAACAGGAGAAAATATTAGACAGGCGAGCATCCTCTCTTCAGCAGGCATCATTGAAG
 CTGTTTCGAAATGGCATACAAAAAGATGGCATCTGAGCGAGAAGGCTCTGGAA GTTCTGGC
 ACTGGGGAACAAAAGGAAGATCAAAAGGAGGAAAAACAGTAATAATAGCAGAAATTTTGA
 AGCCAGAAGGACAACATATGAAGCTTAGGAGTGAAGAGACTTCTGAGCAGAAATGGGCG
 AACTTCAGTCTTTTTACTGTGTTTTTGCAGTATTCTATATATAATTTCTTAATTTGTA
 ATTTAGTGACCATTAGCTAGTGATCATTTAATGGACAGTGATTCTAACAGTATAAAGTTC
 ACAATATTCTATGTCCTAGCCTGTCAATTTTTCAGCTGCATGAAAAGGAGGTAGGATGA
 ATTGATCATTATAAAGATTTAACTATTTTATGCTGAAGTGACCATATTTTCAAGGGGTGA
 AACCATCTCGCACACAGCAATGAAGGTAGTCATCCATAGACTTGAATGAGACCACATAT
 GGGGATGAGATCCTTCTAGTTAGCCTAGTACTGCTGTACTGGCCTGTATGTACATGGGGT
 CCTTCAACTGAGGCCTTCAAGTCAAGCTGGCTGTGCCATGTTTGTAGATGGGGCAGAGG
 AATCTAGAACAATGGGAACTTAGCTATTTATATTAGGTACAGCTATTAACAAGGTAG
 GAATGAGGCTAGACCTTTAACTTCCTAAGGCATACTTTTCTAGCTACCTTCTGCCCTGT
 GTCTGGCACCTACATCCTTGATGATTGTTCTCTTACCCATTCTGGAATTTTTTTTTTTTT
 TAAATAAATACAGAAAGCATCTTGAAAAAAAAAAAAAAAAAAAAA

Restriction Sites:

Please inquire

ACCN:

NM_004134

Insert Size:	2800 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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_004134.4 , NP_004125.3
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:

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]