

Product datasheet for **RG207195**

HSPA4L (NM_014278) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	HSPA4L
Synonyms:	APG-1; APG1; HSPH3; Osp94
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG207195 representing NM_014278
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCTGTGGTTGGCATTGACCTCGGCTTTCTCAACTGCTACATTGCTGTGCGGAGAAGTGGCGGCATCG
 AGACCATCGCCAATGAGTACAGCGACAGGTGTACCCCGGCCTGTATATCATTGGGATCAAGAACTCGAGC
 CATTGGAATGCAGCAAAGAGCCAGATAGTCACGAACGTAAGAAATACAATTCATGGCTTCAAAAAGCTT
 CATGGGCGATCATTGTATGATCCCATTGTGCAAACTGAAAGGATCAGGCTTCCCTATGAACTGCAGAAAA
 TGCCTAATGGAAGTGCAGGAGTTAAGGTGCGGTACTTAGAGGAAGAGAGACCTTTTGCAATTGAGCAAGT
 TACTGGAATGCTGTTAGCCAAGCTTAAAGAGACTTCAGAAAAATGCTTTGAAGAAACCAAGTGGCTGACTGT
 GTGATTTCAATTCCTAGCTTTTTTACTGATGCCGAGAGAAGATCTGTGATGGCTGCAGCCAGGTTGCAG
 GCTTAAATTGTTAAGTTGATGAATGAACTACTGCAGTTGCACTGGCGTATGGAATTTATAAACAGGA
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 AGCTAACTTACAACGTGAAGACATTAGTAGTATAGAAATTTAGGAGGAGCAACACGAATTCCTGCAGTG
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 TTTTCCACAGTCTGATGGTGATAGTTCCAAAGTGAAGTTAAAGTTCGTGTTAACATCCATGGAATCTTC
 AGTGTGGCTAGCGCATCAGTAATTGAGAAGCAAAATTTGGAAGGCGATCAGATGATGCTCCAATGGAGA
 CAGAACTTCATTTAAAAATGAAAACAAAGATAATATGGATAAAATGCAGGTTGATCAAGAAGAAGGGCA
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 GTCTCAGACAAACAGACCGATTAAATCAGACACTTAAAAAGGAAAAGTCAAAAGTATTGATCTACCGA
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 AACTAAATCAGATTCAACAAAAGACAGCTCACAGCATACTAAATCTCTGGAGAGATGGAAGTGGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG207195 representing NM_014278
 Red=Cloning site Green=Tags(s)

MSVVGIDLGFLNCYIAVARSGGIETIANEYSDRCTPACISLGSRTAIGNAAKSQIVTNVRNTIHGFKKL
 HGRSFDDPIVQTERIRLPYELQKMPNGSAGVKVRYLEERPF AIEQVTGMLLAKLKETSENAKKPVADC
 VISIPSF FTD AERRSVMAAAQVAGLNCLRLMNETTAVALAYGIYKQDLPLDEKPRNVVFIDMGHSAYQV
 LVCAFNGKGLKVLATTFDYPYLGGNFDEALVDYFCDEFKTKYKINVKENSRA LLRLYQECEKLKKLMSAN
 ASDLPLNIECFMNDLDVSSKMNAQFEQLCASLLARVEPPLKAVMEQANLQREDISSIEIVGGATRIPAV
 KEQITKFFLKDISTTLNADEAVARGCALQCAILSPA FKVREFSITDLVPYSITLRWKTSFEDGSGECEVF
 CKNH PAPFSKVITFHKKEPFELEAFYTNLHEVPYDARIGSF TIQNVFPQSDGDSSKVKVVRVNIHGIF
 SVASASVIEKQNL EGDHSDAPMETETS FKNENKDNMDKMQVDQEEGHQKCHAHTPEEEIDHTGAKTKSA
 VSDKQDRLNQTLKKGKVSIDLPIQSSLCRQLGQDLLNSYIENEGKMIMQDKLEKERNDAKNAVEEYVYD
 FRDRLGTVYEKFITPEDLSKLSAVLEDTENWL YEDGEDQPKQVYVDKLQELKKYGQPIQMKYMEHEERP
 ALNDLGKKIQLVMKVIEAYRNKDERYDHLDPTEMEKVEK CISDAMSWLNSKMNAQNKLSLTQDPVVKVSE
 IVAKSKELDNFCNPIIYKPKPAEVPEDKPKANSEHNGPMDGQSGTETKSDSTKDSSQHTKSSGEMEVD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014278

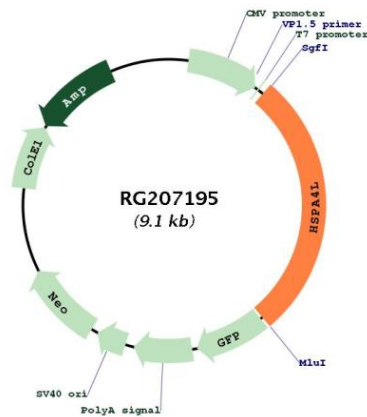
ORF Size: 2517 bp

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_014278.4
RefSeq Size:	3284 bp
RefSeq ORF:	2520 bp
Locus ID:	22824
UniProt ID:	O95757
Cytogenetics:	4q28.1
Domains:	HSP70

Gene Summary:

The protein encoded by this gene is heat shock inducible and may act as a chaperone. The encoded protein can protect the heat-shocked cell against the harmful effects of aggregated proteins. This gene is highly expressed in leukemia cells and may be a good target for therapeutic intervention. Several transcripts encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2015]

Product images:



Circular map for RG207195