

Product datasheet for **RG205351**

HSPA1L (NM_005527) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HSPA1L (NM_005527) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HSPA1L
Synonyms:	HSP70-1L; HSP70-HOM; HSP70T; hum70t
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG205351 representing NM_005527
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTACTGCCAAGGGAATCGCCATAGGCATCGACTGGCACCACCTACTCCTGTGTGGGGTGTTC
 AGCACGGCAAGGTGGAGATCATCGCAACGACCCAGGGCAACCGCACCCCCAGCTACGTGGCCTTCAC
 AGACACCGAGCGGCTCATTGGGGATGCGGCCAAGAACCAGGTAGCAATGAATCCCCAGAACACTGTTTT
 GATGCTAAACGTCTGATCGGCAGGAAATTAATGATCCTGTTGTACAAGCAGATATGAACTTTGGCCTT
 TTCAAGTGATTAATGAAGGAGGCAAGCCAAAGTCCTTGTCTCAAAAGGGGAGAATAAAGCTTTCTA
 CCCTGAGGAAATCTCTCGATGGTATTGACTAAGTTGAAGGAGACTGCTGAGGCCTTTTTGGCCACCT
 GTCACCAATGCAGTGATTACCGTCCAGCCTATTTCAATGACTCTCAACGTCAGGCTACTAAGGATGCAG
 GTGTGATTGCTGGACTTAATGTGCTAAGAATCATCAATGAGCCCACGGCTGCTGCCATTGCCTATGGTT
 AGATAAAGGAGGTCAAGGAGAACGACATGCTGATTTTTGATCTGGGTGGAGGCACATTTGATGTGTCA
 ATTCTGACCATAGATGATGGGATTTTTGAGGTAAGGCCACTGCTGGGGACACTACCTGGGTGGGAGG
 ACTTTGACAACAGGCTTGTGAGCCACTTCGTGGAGGAGTTCAAGAGGAAACACAAAAAGGACATCAGCCA
 GAACAAGCGAGCCGTGAGGCGGCTGCGCACCGCTGCGAGAGGGCCAAGAGGACCCTGCTGTCAGCACC
 CAGGCCAACCTAGAAATTGATCACTTTATGAAGGCATTGACTTCTATACATCCATCACCAGAGCTCGAT
 TTGAAGAGTTGTGTGCAGACCTGTTTAGGGGTACCCTGGAGCCTGTAGAAAAAGCGCTTCGGGATGCCAA
 GATGGATAAGGCTAAAATCCATGACATTGTTTTAGTAGGGGCTCCACCCGCATCCCCAAGTGCAGCGG
 CTGCTTCAGGACTACTTCAATGGACGTGATCTCAACAAGAGCATCAACCTGATGAGGCCGTGCTGCTGGA
 CGGCTCGGTACAAGCAGCCATCCTGATGGGGACAAGTCTGAGAAGTACAGGACCTGCTGCTGGA
 CGTGGCTCCCCTGCTCCCTGGGGCTGGAGACGGCTGGGGCGTGATGACTGCCTTGATGAAGCGCACTCC
 ACCATCCCCACCAAGCAGACACAGATTTTACCACCTACTCTGACAACCAACCCGGGGTGTGATCCAGG
 TGTATGAGGGCGAGAGGGCCATGACAAAGGACAACAACCTGCTGGGGCGGTTTGACTGACTGGAATCCC
 TCCAGCACCCAGGGGAGTTCTCAGATCGAGGTGACGTTTGACATTGATGCCAATGGTATTCTCAATGTC
 ACAGCCATGGACAAGAGCACCGGCAAGTGAACAAGATCACCATCGCAATGACAAGGGCCGCTGAGCA
 AGGAGGAGATTGAGCGCATGTTTCTGGATGCTGAGAAATATAAGCTGAAGATGAGGTCCAGAGGGAGAA
 AATTGCTGCAAAGAATGCCTTAGAATCCTATGCTTTAACATGAAGAGTGTGTGAGTGTGAAGGTTTG
 AAGGGCAAGATTAGTGAGTCTGATAAAAAATAAATATTGGATAAATGCAACGAGCTCCTTTCGTGGCTGG
 AGGTCAATCAACTGGCAGAGAAAGATGAGTTTGATCATAGAGAAAGGAATTGGAGCAGATGTGTAAACC
 TATCATCACAAACTCTACCAAGGAGGATGCACTGGGCCTGCCTGCGGAACAGGGTATGTGCTGGAAGG
 CCTGCCACAGGCCCCACAATTGAAGAAGTAGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG205351 representing NM_005527
 Red=Cloning site Green=Tags(s)

MATAKGIAIGIDLGTTYSCVGVFQHGKVEIANDQGNRTTPSYVAFTDTERLIGDAAKNQVAMNPQNTVF
 DAKRLIGRKFNDPVVQADMKLWPFQVINEGGKPKVLSYKGENKAFYPPEISSMVLTKLKETAFLGHP
 VNAVITVPAYFNDSQRQATKDAGVIAGLNLVRIINEPTAAAIAYGLDKGGQGERHVLIFDLGGGTFDVS
 ILTIDDGIFEVKATAGDTHLGGEDFDNRLVSHFVEEFKRKHKKDISQNKRAVRRRLTACERAKRTLSST
 QANLEIDSLYEGIDFYTSITRARFEELCADLFRGTLEPVEKALRDAKMDKAKIHDIVLVGGSTRIPKVQR
 LLQDYFNDRDLNKSINPDEAVAYGAAVQAAILMGDKSEKVDLLLDVAPLSLGLTAGGVMTALMKRNS
 TIPTKQTQIFTTYSDNPGVLQVYEGERAMTKDNNLLGRFDLTGIPPAPRGVPQIEVTFDIDANGILNV
 TAMDKSTGKVNKITIANDKGRLSKEEIERMVLDAEKYKADEVQREKIAAKNALESYAFNMKSVVSDEGL
 KGKISESDKNKILDKCNELLSWLEVNQLAEKDEFDHKRKELEQMCNPIITKLYQGGCTGPACGTGYVPGR
 PATGPTIEEVD

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_005527

ORF Size: 1923 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.

RefSeq: [NM_005527.3](#), [NP_005518.3](#)

RefSeq Size: 2550 bp

RefSeq ORF: 1926 bp

Locus ID: 3305

UniProt ID: [P34931](#)

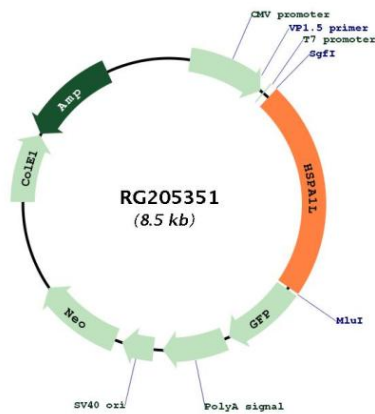
Cytogenetics: 6p21.33

Domains: HSP70

Protein Pathways: Antigen processing and presentation, Endocytosis, MAPK signaling pathway, Spliceosome

Gene Summary: This gene encodes a 70kDa heat shock protein. In conjunction with other heat shock proteins, this protein stabilizes existing proteins against aggregation and mediates the folding of newly translated proteins in the cytosol and in organelles. The gene is located in the major histocompatibility complex class III region, in a cluster with two closely related genes which also encode isoforms of the 70kDa heat shock protein. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG205351