

Product datasheet for **RG212092**

Hsc70 (HSPA8) (NM_153201) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hsc70 (HSPA8) (NM_153201) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hsc70
Synonyms:	HEL-33; HEL-S-72p; HSC54; HSC70; HSC71; HSP71; HSP73; HSPA10; LAP-1; LAP1; NIP71
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG212092 representing NM_153201
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCCAAGGACCTGCAGTTGGTATTGATCTTGGCACCACTACTCTTGTGTGGGTGTTTTCCAGCAGC
 GAAAAGTCGAGATAATTGCCAATGATCAGGAAACCGAACCACTCCAAGCTATGTCGCCTTTACGGACAC
 TGAACGGTTGATCGGTGATGCCGCAAAGATCAAGTTGCAATGAACCCCAACACAGTTTTTGTATGCC
 AAACGTCTGATTGGACGCAGATTTGATGATGCTGTTGTCCAGTCTGATATGAAACATTGGCCCTTTATGG
 TGGTGAATGATGCTGGCAGGCCAAGGTCCAAGTAGAACAAGGGAGAGACCAAAGCTTCTATCCAGA
 GGAGGTGTCTTCTATGTTCTGACAAAGATGAAGGAAATTGCAGAAGCCTACCTTGGGAAGACTGTTACC
 AATGCTGTGGTCACAGTGCCAGCTTACTTTAATGACTCTCAGCGTCAGGCTACCAAAGATGCTGGAAC
 TTGCTGGTCTCAATGTACTTAGAATTATTAATGAGCCAAGTCTGCTGCTATTGCTTACGGCTTAGACAA
 AAAGTTGGAGCAGAAAGAACGTGCTCATCTTTGACCTGGGAGGTGGCACTTTTGTGTCAATCCTC
 ACTATTGAGGATGGAATCTTTGAGGTCAAGTCTACAGCTGGAGACACCCACTTGGGTGGAGAAGATTTG
 ACAACCGAATGGTCAACCATTTTATTGCTGAGTTAAGCGCAAGCATAAGAAGGACATCAGTGAGAACA
 GAGAGCTGAAGACGCCTCCGACTGCTTGTGAACGTGCTAAGCGTACCCCTCTCTCCAGCACCCAGGCC
 AGTATTGAGATCGATTCTCTCTATGAAGGAATCGACTTCTATACCTCCATTACCCGTGCCGATTGAAG
 AACTGAATGCTGACCTGTTCCGTGGCACCTGGACCCAGTAGAGAAAGCCCTTCGAGATGCCAACTAGA
 CAAGTCACAGATTCATGATATTGCTCGTTGGTGGTCTACTCGTATCCCAAGATTCAGAAGCTTCTC
 CAAGACTTCTCAATGAAAAGAAGTGAATAAGAGCATCAACCTGATGAAGCTGTTGCTTATGGTGCAG
 CTGTCCAGGCAGCCATCTTGTCTGGAGACAAGTCTGAGAATGTTCAAGATTTGCTGCTCTGGATGTCAC
 TCCTCTTCCCTTGGTATTGAAACTGCTGGTGGAGTCATGACTGTCCTCATCAAGCGTAATACCACCATT
 CCTACCAAGCAGACACAGACCTTCACTACCTATTCTGACAACCAGCCTGGTGTGCTTATTAGGTTTATG
 AAGCGAGCGTGCCATGACAAAGGATAACAACCTGCTTGGCAAGTTTGAAGTACAGGCATGCCAGGAGG
 AATGCCTGGGGATTTCTGGTGGTGGAGCTCCTCCCTCTGGTGGTCTCCTCAGGGCCACCATTGAA
 GAGGTTGAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG212092 representing NM_153201
 Red=Cloning site Green=Tags(s)

MSKGPVAVGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFDTERLIGDAAKNQVAMNPTNTVFDA
 KRLIGRRFDDAVVQSDMKHWPFMVNDAGRPKVQVEYKGETKSFYPEEVSSMVLTKMKEIAEAYLGKTVT
 NAVVTVPAYFNDSQRQATKDAGTIAGLNVLRIINEPTAAAIAAYGLDKKVGAEARNVLIIFDLGGTFDVSIL
 TIEDGIFEVKSTAGDTHLGGEDFDNRMVNHFIAEFKRKHKKDISENKRAVRRRLTACERAKRTLSSTQA
 SIEIDSLYEGIDFYTSITRARFEELNADLFRGTLDPVEKALRDAKLDKSQIHDIIVLVGGSTRIPKIQKLL
 QDFFNGKELNKSINPDEAVAYGAAVQAAILSGDKSENVQDLLLLDVTPLSLGIETAGGVMTVLIKRNTTI
 PTKQTQFTTYSQNPVLIQVYEGERAMTKDNNLLGKFELTGMPGGMPGGFPGGGAPSGGASSGPTIE
 EVD

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_153201

ORF Size: 1479 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_153201.4](#)

RefSeq Size: 1817 bp

RefSeq ORF: 1482 bp

Locus ID: 3312

UniProt ID: [P11142](#)

Cytogenetics: 11q24.1

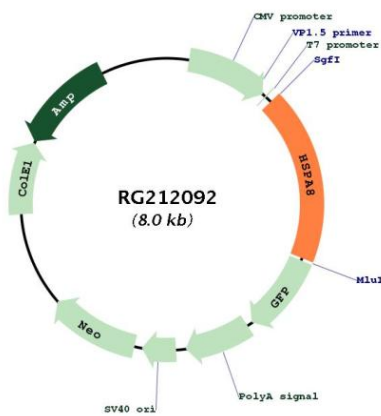
Domains: HSP70

Protein Families: Stem cell - Pluripotency

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

Gene Summary: This gene encodes a member of the heat shock protein 70 family, which contains both heat-inducible and constitutively expressed members. This protein belongs to the latter group, which are also referred to as heat-shock cognate proteins. It functions as a chaperone, and binds to nascent polypeptides to facilitate correct folding. It also functions as an ATPase in the disassembly of clathrin-coated vesicles during transport of membrane components through the cell. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2011]

Product images:



Circular map for RG212092