

Product datasheet for **RC212092**

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:	Myc-DDK
Symbol:	Hsc70
Synonyms:	HEL-33; HEL-S-72p; HSC54; HSC70; HSC71; HSP71; HSP73; HSPA10; LAP-1; LAP1; NIP71
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC212092 representing NM_153201
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCCAAGGACCTGCAGTTGGTATTGATCTTGGCACCACTACTCTTGTGTGGGTGTTTTCCAGCAGC
 GAAAAGTCGAGATAATTGCCAATGATCAGGAAACCGAACCACTCCAAGCTATGTCGCCTTTACGGACAC
 TGAACGGTTGATCGGTGATGCCGCAAAGATCAAGTTGCAATGAACCCCAACACAGTTTTTGTATGCC
 AAACGTCTGATTGGACGCAGATTTGATGATGCTGTTGTCCAGTCTGATATGAAACATTGGCCCTTTATGG
 TGGTGAATGATGCTGGCAGGCCAAGGTCCAAGTAGAATAACAAGGGAGAGACCAAAGCTTCTATCCAGA
 GGAGGTGTCTTCTATGTTCTGACAAAGATGAAGGAAATTGCAGAAGCCTACCTTGGGAAGACTGTTACC
 AATGCTGTGGTCACAGTGCCAGCTTACTTTAATGACTCTCAGCGTCAGGCTACCAAAGATGCTGAACTA
 TTGCTGGTCTCAATGTACTTAGAATTATTAATGAGCCAAGTCTGCTGCTATTGCTTACGGCTTAGACAA
 AAAGTTGGAGCAGAAAGAAACGTGCTCATCTTTGACCTGGGAGGTGGCACTTTTGTGTCAATCCTC
 ACTATTGAGGATGGAATCTTTGAGGTCAAGTCTACAGCTGGAGACACCCACTTGGGTGGAGAAGATTTTG
 ACAACCGAATGGTCAACCATTTTATTGCTGAGTTAAGCGCAAGCATAAGAAGGACATCAGTGAGAACA
 GAGAGCTGAAGACGCCTCCGACTGCTTGTGAACGTGCTAAGCGTACCCTCTCTTCCAGCACCCAGGCC
 AGTATTGAGATCGATTCTCTCTATGAAGGAATCGACTTCTATACCTCCATTACCCGTGCCGATTGGAAG
 AACTGAATGCTGACCTGTTCCGTGGCACCTGGACCCAGTAGAGAAAGCCCTTCGAGATGCCAACTAGA
 CAAGTCACAGATTCATGATATTGCTCGTGGTGGTGGTCTACTCGTATCCCAAGATTGAGAAGCTTCTC
 CAAGACTCTTCAATGAAAAGAAGTGAATAAGAGCATCAACCTGATGAAGCTGTTGCTTATGGTGCAG
 CTGTCCAGGCAGCCATCTTGTCTGGAGACAAGTCTGAGAATGTTCAAGATTTGCTGCTTTGGATGTCAC
 TCCTCTTCCCTTGGTATTGAAACTGCTGGTGGAGTCATGACTGTCCTCATCAAGCGTAATACCACCATT
 CCTACCAAGCAGACACAGACCTTCACTACCTATTCTGACAACCAGCCTGGTGTGCTTATTAGGTTTATG
 AAGCGAGCGTGCCATGACAAAGGATAACAACCTGCTTGGCAAGTTTGAAGTACAGGCATGCCAGGAGG
 AATGCCTGGGGATTTCTGGTGGTGGAGCTCCTCCCTGCTGGTGGTCTCCTCAGGGCCACCATTGAA
 GAGGTTGAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC212092 representing NM_153201
 Red=Cloning site Green=Tags(s)

MSKGPVAVGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFDTERLIGDAAKNQVAMNPTNTVFDA
 KRLLIGRRFDDAVVQSDMKHWPFMVNDAGRPKVQVEYKGETKSFYPEEVSSMVLTKMKEIAEAYLGKTVT
 NAVVTVPAYFNDSQRQATKDAGTIAGLNVLRIINEPTAAAIAYGLDKKVGAEARNVLI FDLGGGTFDVSIL
 TIEDGIFEVKSTAGDTHLGGEDFDNRMVNHFIAEFKRKHKKDISENKRAVRRRLRTACERAKRTLSSTQA
 SIEIDSLYEGIDFYTSITRARFEELNADLFRGTLDPVEKALRDAKLDKSQIHDIVLVGGSTRIPKIQLL
 QDFFNKELNKSINPDEAVAYGAAVQAAAILSGDKSENVQDLLLLDVTPLSLGIETAGGVMTVLIKRNTTI
 PTKQTQFTTYSNQPGVLIQVYEGERAMTKDNNLLGKFELTGMPGGMPGGFPGGGAPSGGASSGPTIE
 EVD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8063_c07.zip

Restriction Sites:

Sgfl-Mlul

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_153201.4](#)

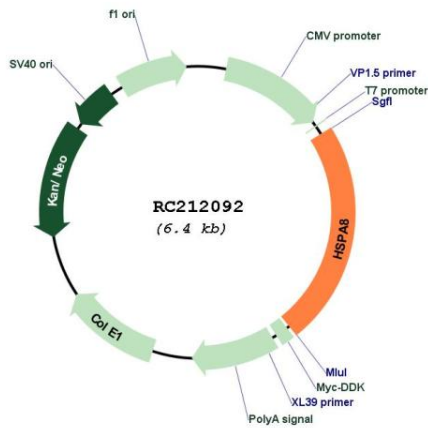
RefSeq Size: 1817 bp

RefSeq ORF: 1482 bp

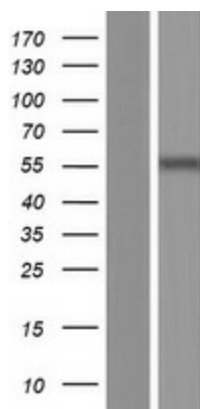
Locus ID: 3312

UniProt ID:	P11142
Cytogenetics:	11q24.1
Domains:	HSP70
Protein Families:	Stem cell - Pluripotency
Protein Pathways:	Antigen processing and presentation, Endocytosis, MAPK signaling pathway, Spliceosome
MW:	53.3 kDa
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 RC212092



Western blot validation of overexpression lysate (Cat# [LY407134]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212092 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).