

## Product datasheet for **SC115973**

### Hsc70 (HSPA8) (NM\_006597) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hsc70 (HSPA8) (NM_006597) Human Untagged Clone
Tag:	Tag Free
Symbol:	Hsc70
Synonyms:	HEL-33; HEL-S-72p; HSC54; HSC70; HSC71; HSP71; HSP73; HSPA10; LAP-1; LAP1; NIP71
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC115973 sequence for NM\_006597 edited (data generated by NextGen Sequencing)

```
ATGTCCAAGGGACCTGCAGTTGGTATTGATCTTGGCACCACCTACTCTTGTGTGGGTGTT
TTCCAGCACGGAAAAGTCGAGATAATTGCCAATGATCAGGGAAACCGAACCACTCCAAGC
TATGTCGCCTTTACGGACACTGAACGGTTGATCGGTGATGCCGAAAGAATCAAGTTGCA
ATGAACCCACCAACACAGTTTTTGGATGCCAAACGTCTGATTGGACGCAGATTTGATGAT
GCTGTTGTCCAGTCTGATATGAAACATTGGCCCTTTATGGTGGTGAATGATGCTGGCAGG
CCCAAGGTCCAAGTAGAATACAAGGGAGAGACCAAAAAGCTTCTATCCAGAGGAGGTGCT
TCTATGGTTCTGACAAAGATGAAGGAAATTGCAGAAGCCTACCTTGGGAAGACTGTTACC
AATGCTGTGGTCACAGTGCCAGCTTACTTTAATGACTCTCAGCGTCAGGCTACCAAAGAT
GCTGGAATATTGCTGGTCTCAATGTAAGTACTTAGAATTTAATGAGCCAAGTCTGCTGCT
ATTGCTTACGGCTTAGACAAAAAGTTGGAGCAGAAAGAAACGTGCTCATCTTTGACCTG
GGAGGTGGCACTTTTGTGTCAATCCTCACTATTGAGGATGGAATCTTTGAGGTCAAG
TCTACAGCTGGAGACACCACTTGGGTGGAGAAGATTTTGACAACCGAATGGTCAACCAT
TTTATTGCTGAGTTTAAGCGCAAGCATAAGAAGGACATCAGTGAGAACAAGAGAGCTGTA
AGACGCCTCCGTACTGCTTGTGAACGTGCTAAGCGTACCCTCTCTCCAGCACCCAGGCC
AGTATTGAGATCGATTCTCTATGAAGGAATCGACTTCTATAACCTCCATTACCCGTGCC
CGATTTGAAGAACTGAATGCTGACCTGTTCCGTGGCACCTGGACCCAGTAGAGAAAGCC
CTTCGAGATGCCAAACTAGACAAGTCACAGATTATGATATTGTCCTGGTTGGTGGTTCT
ACTCGTATCCCCAAGATTCAGAAGCTTCTCCAAGACTTCTCAATGGAAGAAAGTGAAT
AAGAGCATCAACCCTGATGAAGCTGTTGCTTATGGTGCAGCTGTCCAGGCAGCCATCTTG
TCTGGAGACAAGTCTGAGAATGTTCAAGATTTGCTGCTTTGGATGCTACTCCTCTTTCC
CTTGGTATTGAAACTGCTGGTGGAGTCATGACTGTCCTCATCAAGCGTAATACCACCATT
CCTACCAAGCAGACACAGACCTTCACTACCTATTCTGACAACCAGCCTGGTGTGCTTATT
CAGGTTTTATGAAGCGAGCGTGCCATGACAAAAGGATAAACACCTGCTTGGCAAGTTTGAA
CTCACAGGCATACCTCCTGCACCCCGAGGTGTTCTCAGATTGAAGTCACTTTTGACATT
GATGCCAATGGTATACTCAATGTCTCTGCTGTGGACAAGAGTACGGGAAAAGAGAACAAG
ATTACTATCACTAATGACAAGGGCCGTTTGAGCAAGGAAGACATTGAACGTATGGTCCAG
GAAGCTGAGAAGTACAAAGCTGAAGATGAGAAGCAGAGGGACAAGGTGTCATCCAAGAAT
TCACTTGAGTCTATGCCTTCAACATGAAAGCAACTGTTGAAGATGAGAACTTCAAGGC
AAGATTAACGATGAGGACAAACAGAAGATTCTGGACAAGTGAATGAAATTATCAACTGG
CTTGATAAGAATCAGACTGCCGAGAAGGAAGATTTGAACATCAACAGAAAGAGCTGGAG
AAAGTTTGCAACCCCATCATACCAAGCTGTACCAGAGTGCAGGAGGCATGCCAGGAGGA
ATGCCTGGGGGATTTCTGGTGGTGGAGCTCCTCCCTCTGGTGGTCTTCTCAGGGCCC
ACCATTGAAGAGGTTGATTAA
```

Clone variation with respect to NM\_006597.4  
1761 t=>c

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_006597 unedited  
 GGTACATTTGTATACGACTCATATAGGCGGCCGCGNAATTCGCACGAGGCTCGCCTGCA  
 GCTCTTGGGTTTTTTGTGGCTTCCTTCGTTATTGGAGCCAGGCCTACATCCCAGCAACCA  
 TGTCCAAGGGACCTGCAGTTGGTATTGATCTTGGCACCACCTACTCTTGTGTGGGTGTTT  
 TCCAGCACGGTAAAAGTCGAGATAATTGCCAATGATCAGGGAAACCGAACCACTCCAAGC  
 TATGTCGCCTTTACGGACACTGAACGGTTGATCGGTGATGCCGCAAAGAATCAAGTTGCA  
 ATGAACCCCAACACAGTTTTTGGATGCGCAACGCTGATTGGACGCAGATTTGATGAT  
 GCTGTTGTCCAGTCTGATATGAAACATTGGCCCTTTATGGTGGTGAATGATGCTGGCAGG  
 CCCAAGGTCCAAGTAGAATACAAGGGAGAGACCAAAAAGCTTCTATCCAGAGGAGGTGCT  
 TCTATGGTTCTGACAAAGATGAAGGAAATTGCAGAAGCCTACCTTGGGAAGACTGTTACC  
 AATGCTGTGGTCACAGTGCCAGCTTACTTTAATGACTCTCAGCGTCAGGCTACCAAAGAT  
 GCTGGAATATTGCTGGTCTCAATGTACTTAGAATTAATGAGCCAACCTGCTGCTGCT  
 ATTGCTTACGGCTTAGACAAAAAGTTGGAGCAGAAAGAAACGTGCTCATCTTTGACCTG  
 GGAGGTGGCACTTTTGTGTGCAATCCTCACTATTNGAGATGGAATCTTTGAGGTCAAG  
 TCTACAGCTGGAGACACCCACTTGGGTGGAGAAGATTNTGACAACCGAATGGGTACCAT  
 TTTATTGCTGAGTTTAAGCGCAAGCTTAGAAGGACATCAGTGAGAACAAAGAGAGCTGTNA  
 GAACGCTCCGTAAGTGCCTGC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_006597 unedited  
 ATGGCAACTTCCAGGGCCAGNATAGCACTGGGGAGGGGTCACAGGNATGCCACCCGGGAT  
 CTGTTCCAGAAACAGCTATGACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTT  
 TTTTGCCAAATTTAAATAGTTTTATTTAAGACATTGCATTTTCCACTTACAATACAGTGT  
 TTATAAAGTGAATGTTATTTCCCTCCCTGTGCATATGTTCCATATTCAAGATTGAGA  
 ATGCCCCAGTAACTTACTATAGCAGCTTAACTTTTTAAAAGTCCACAGAAATTTGCTACGA  
 ATTTAGGTCCTTCAAATGTTTTAAATGTGTGGAACAATGCTACATCTACACTTGGTTGGC  
 TTAATCAACCTCTTCAATGGTGGGCCCTGAGGAAGCACCACCAGAGGGAGGAGCTCCACC  
 ACCAGGAAATCCCCAGGCATTCCTCCTGGCATGCCTCCTGCACTCTGGTACAGCTTGGT  
 GATGATGGGGTTGCAAATTTCTCCAGCTCTTTCTGTTGATGTTCAAATCTTCCCTTCTC  
 GGCAGTCTGATTCTTATCAAGCCAGTTGATAATTTCAATACACTTGTCAGAAATCTCTG  
 TTTGTCCTCATCGTTAATCTTGCCTTGAAGTTTCTCATCTTCAACAGTTGCTTTTCATGTT  
 GAAGGCATAGGACTCAAGTGAATTTCTGGATGACANCCTTGCCCTCTGCTTCTCATCTT  
 CAGCTTTGTAATCTCAGCTTCCGACCATACGTTCAATGGTCTTCTTGTCAAACGNC  
 CCTTGNATTAGNATAGTAATCTTGGTCTCTTTTCCCGTACTCTTNGCCACAGCAGAGA  
 CATTGAGGATACCATTGGCATCATGGCAAAAGTGAATTCATCCTGAGACACC

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_006597

**Insert Size:**

2190 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_006597.3</a> , <a href="#">NP_006588.1</a>
<b>RefSeq Size:</b>	2276 bp
<b>RefSeq ORF:</b>	1941 bp
<b>Locus ID:</b>	3312
<b>UniProt ID:</b>	<a href="#">P11142</a>
<b>Cytogenetics:</b>	11q24.1
<b>Domains:</b>	HSP70
<b>Protein Families:</b>	Stem cell - Pluripotency
<b>Protein Pathways:</b>	Antigen processing and presentation, Endocytosis, MAPK signaling pathway, Spliceosome
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) represents the predominant transcript, and encodes the longer isoform (1).</p>