

## Product datasheet for SC313710

### Hsc70 (HSPA8) (NM\_153201) Human Untagged Clone

#### Product data:

|                      |   |
|----------------------|---|
| Product Type:        | Expression Plasmids   |
| Product Name:        | Hsc70 (HSPA8) (NM_153201) Human Untagged Clone  |
| Tag:                 | Tag Free  |
| Symbol:              | HSPA8   |
| Synonyms:            | HEL-33; HEL-S-72p; HSC54; HSC70; HSC71; HSP71; HSP73; HSPA10; LAP-1; LAP1; NIP71  |
| Vector:              | <u>pCMV6 series</u>   |
| Fully Sequenced ORF: | >NCBI ORF sequence for NM_153201, the custom clone sequence may differ by one or more nucleotides<br>ATGTCCAAGGACCTGCAGTTGGTATTGATCTTGGCACCACTACTCTTGTGTGGGTGTT<br>TTCCAGCACGAAAAGTCGAGATAATTGCCAATGATCAGGGAAACCGAACCACTCCAAGC<br>TATGTCGCCTTTACGGACACTGAACGGTTGATCGGTGATGCCGCAAGAATCAAGTTGCA<br>ATGAACCCACCAACACAGTTTTTGTGCCAAACGTCTGATTGGACGCAGATTTGATGAT<br>GCTGTTGTCCAGTCTGATATGAAACATTGGCCCTTTATGGTGGTGAATGATGCTGGCAGG<br>CCCAAGGTCCAAGTAGAATAACAAGGGAGAGACAAAAGCTTCTATCCAGAGGAGGTGCTCT<br>TCTATGGTTCTGACAAAGATGAAGGAAATTGCAGAAGCCTACCTTGGGAAGACTGTTACC<br>AATGCTGTGGTCACAGTGCAGCTTACTTTAATGACTCTCAGCGTCAGGCTACCAAAGAT<br>GCTGGAATATTGCTGGTCTCAATGTACTTAGAATTATTAATGAGCCAACCTGCTGCTGCT<br>ATTGCTTACGGCTTAGACAAAAAGGTTGGAGCAGAAAAGAAACGTGCTCATCTTTGACCTG<br>GGAGGTGGCACTTTTGTGTGCAATCCTCACTATTGAGGATGGAATCTTTGAGGTCAAG<br>TCTACAGCTGGAGACACCACTTGGGTGGAGAAGATTTTACAACCGAATGGTCAACCAT<br>TTTATTGCTGAGTTAAGCGCAAGCATAAGAAGGACATCAGTGAGAACAAGAGAGCTGTA<br>AGACGCCTCCGTAAGTCTGTGAACGTGCTAAGCGTACCCTCTCTCCAGCACCCAGGCC<br>AGTATTGAGATCGATTCTCTATGAAGGAATCGACTTCTATACCTCCATTACCCGTGCC<br>CGATTTGAAGAAGTGAATGCTGACCTGTTCCGTGGCACCCCTGGACCCAGTAGAGAAAGCC<br>CTTCGAGATGCCAACTAGACAAGTACAGATTATGATATTGTCTGGTTGGTGGTTCT<br>ACTCGTATCCCCAAGATTGAGAAGCTTCTCCAAGACTTCTTCAATGAAAAAGAACTGAAT<br>AAGAGCATCAACCCTGATGAAGCTGTTGCTTATGGTGCAGCTGTCCAGGCAGCCATCTTG<br>TCTGGAGACAAGTCTGAGAATGTTCAAGATTTGCTGCTCTTGGATGCTCACTCCTCTTTCC<br>CTTGGTATTGAACTGCTGGTGGAGTCATGACTGCTCCTCATCAAGCGTAATACCACCATT<br>CCTACCAAGCAGACACAGACCTTCACTACCTATTCTGACAACCAGCCTGGTGTGCTTATT<br>CAGGTTTATGAAGGCGAGCGTGCCATGACAAAGGATAACAACCTGCTTGGCAAGTTTGAA<br>CTCACAGGCATGCCAGGAGGAATGCCTGGGGGATTTCTGGTGGTGGAGCTCCTCCCTCT<br>GGTGGTGTCTCCTCAGGGCCACCATTGAAGAGTTGAT |
| Restriction Sites:   | Please inquire  |
| ACCN:                | NM_153201   |



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|-------------------------------|---|
| <b>OTI Disclaimer:</b>        | 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).  |
| <b>OTI Annotation:</b>        | This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.  |
| <b>Components:</b>            | 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>                | <u><a href="#">NM_153201.1</a></u> , <u><a href="#">NP_694881.1</a></u>   |
| <b>RefSeq Size:</b>           | 1817 bp   |
| <b>RefSeq ORF:</b>            | 1482 bp   |
| <b>Locus ID:</b>              | 3312  |
| <b>UniProt ID:</b>            | <u><a href="#">P11142</a></u>   |
| <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 (2) uses alternate splice sites, and is missing an exon in the 3' coding region compared to variant 1. However, it maintains the reading frame, and encodes a shorter isoform (2) missing an internal protein segment compared to isoform 1.</p> |