

## Product datasheet for **SC114286**

### **C11orf73 (HIKESHI) (NM\_016401) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	C11orf73 (HIKESHI) (NM_016401) Human Untagged Clone
Tag:	Tag Free
Symbol:	C11orf73
Synonyms:	C11orf73; HLD13; HSPC138; HSPC179; L7RN6; OPI10
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC114286 sequence for NM_016401 edited (data generated by NextGen Sequencing)

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ATGTTTGGCTGCTTGGTGGCGGGGAGGCTGGTGCAAACAGCTGCACAGCAAGTGGCAGAG
GATAAATTTGTTTTGACTTACCTGATTATGAAAGTATCAACCATGTTGTGGTTTTTATG
CTGGGAACAATCCCATTTCTGAGGGAATGGGAGGATCTGTCTACTTTTCTTATCCTGAT
TCAAATGGAATGCCAGTATGGCAACTCCTAGGATTTGTCACGAATGGGAAGCCAAGTGC
ATCTTCAAATTTTCAGGTCTTAAATCTGGAGAAGGAAGCCAACATCCTTTTGGAGCCATG
AATATTGTCCGAATCCATCTGTTGCTCAGATTGGAATTTTCAGTGAATTATTAGACAGT
ATGGCTCAGCAGACTCCTGTAGTAATGCTGCTGTATCCTCAGTTGACTCATTCACTCAG
TTCACACAAAAGATGTTGGACAATTTCTACAATTTTGTTCATCATTTGCTGTCTCTCAG
GCCCAGATGACACCAAGCCCATCTGAAATGTTTCATTCGGCAAATGTGGTTCTGAAATGG
TATGAAAATTTCAAAGACGACTAGCACAGAACCCTCTCTTTTGGAAAACATAA
```

Clone variation with respect to NM\_016401.3



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_016401 unedited</p> <pre>TTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCCCTCCCGCAAATTC TGGAAAGTTCTTAGTCTCGACTAGGGCAGTAGCCCCAGGACTCCTAGTCGCCGGCTTCAG GTCACTGCCGGCTGAACGGAGCTGCCGTCGCCATGTTTGGCTGCTTGGTGGCGGGGAGGC TGGTGCAAACAGCTGCACAGCAAGTGGCAGAGGATAAATTTGTTTTGACTTACCTGATT ATGAAAAGTATCAACCATGTTGTGGTTTTTATGCTGGGAACAATCCCATTTCCTGAGGGAA TGGGAGGATCTGTCTACTTTTTCTTATCCTGATTCAAATGGAATGCCAGTATGGCAATCC TAGGATTTGTACGAATGGGAAGCCAAGTGCCATCTTCAAATTTTCAGGCTTAAATCTG GAGAAGGAAGCCAACATCCTTTTGGAGCCATGAATATTGTCCGAATCCATCTGTGCTC AGATTGGAATTTTCAGTGGAAATTATTAGACAGTATGGCTCAGCAGACTCCTGTAGGTAATG CTGCTGTATCCTCAGTTGACTCATTCACTCAGTTCACACAAAAGATGTTGGACAATTTCT ACAATTTTGTTCATCATTGCTGTCTCTCAGGCCAGATGACACCAAGCCCATCTGAAA TGTTTCATTCGGCAAATGTGGTTCTGAAATGGTATGAAAATTTCAAAGACGACTAGCAC AGAACCCCTCTTTTTGAAAAACATAATTTGAATAAAATAAATTTAATGAAAAAAAAA AAAAAAAAACTCGACTCTAGATTGCGGCCCGCGTCATAGCTGNTTCTGAACAGATCCCG GGTGGCATNCCTGTGACCCCTCCAGTGCCTCTCTGGCCCTGNAAGTTGC</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_016401 unedited</p> <pre>CGGCACGCAATCTAGNATCGAGTTTTTTTTTTTTTTTTTTTTTTCCTTAAAAATATTTTAT TCAAATTATGTCTTTCCAAAAAAGGTTCTGTGCTAGTCGTCTTTGAAAGTTTTTCATAC CATTTCAAACCACATTTGCCGGAATGAACATTTCAAATGGGCTTGGTGTCTATCTGGGCC TGAGAGACAGCAAATGATGAAGCAAAATGTAGAAATTGTCCAACATCTTTTGTGTGAAC TGAGTGAATGAGTCAACTGAGGATACAGCAGCATTACCTACAGGAGTCTGCTGAGCCATA CTGTCTAATAATCCACTGAAATTTCAAATCTGAGCAACAGATGGAGTTCCGACAATATTC ATGGCTCCAAAAGGATGTTGGCTTCTCTCCAGATTTAAGACCTGAAATTTTGAAGATG GCATTGGCTTCCCATTCGTGACAAATCCTAGGAGTTGCCATACTGGCATTCCATTTGAA TCAGGATAAGAAAAGTAGACAGATCCTCCCATTCCTCAGGAAATGGGATTGTTCCACGC ATAAAAACCACAACATGGTTGATACTTTTATAATCAGGTAAGTCAAAAACAAATTTATCC TCTGCCACTTGTGTGCAGCTGTTTGCACCANCCTCCCCGCCACCAAGCAGCCAAACATG GCGACGGCAGCTCCGTTTCAGCCGGCAGTGACCTGAAGCCGGCGACTAGGAGTCTGGGGC TACTGCCCTANTCGAGACTAAGAACCTTNCAGAATTTGCGGGAAGGGCCCTCGTGCCCGAT TCGCGCCGCCCTTAGTGAGTCGTATACAAAATTTGACGGTTCACTAAACGAGCTCTGCT TAATAGACCTCCACCGNACGCCTACCGCCATTTGCGTNAACGGGGCGGGTTATTACGA CATTTTAAAAGTCCCGTGATTTGGTGCCAAACAACTCCCATGCGCAATGGGTGGAACCTTG AATCCCCGGATCN</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_016401
<b>Insert Size:</b>	800 bp
<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>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).

**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\\_016401.2](#), [NP\\_057485.2](#)

**RefSeq Size:** 1152 bp

**RefSeq ORF:** 594 bp

**Locus ID:** 51501

**UniProt ID:** [Q53FT3](#)

**Cytogenetics:** 11q14.2

**Gene Summary:** This gene encodes an evolutionarily conserved nuclear transport receptor that mediates heat-shock-induced nuclear import of 70 kDa heat-shock proteins (Hsp70s) through interactions with FG-nucleoporins. The protein mediates transport of the ATP form but not the ADP form of Hsp70 proteins under conditions of heat shock stress. Structural analyses demonstrate that the protein forms an asymmetric homodimer and that the N-terminal domain consists of a jelly-roll/beta-sandwich fold structure that contains hydrophobic pockets involved in FG-nucleoporin recognition. Reduction of RNA expression levels in HeLa cells using small interfering RNAs results in inhibition of heat shock-induced nuclear accumulation of Hsp70s, indicating a role for this gene in regulation of Hsp70 nuclear import during heat shock stress. [provided by RefSeq, Apr 2016]