

Product datasheet for **SC115932**

Hsp105 (HSPH1) (NM_006644) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hsp105 (HSPH1) (NM_006644) Human Untagged Clone
Tag:	Tag Free
Symbol:	Hsp105
Synonyms:	HSP105; HSP105A; HSP105B; NY-CO-25
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC115932 sequence for NM_006644 edited (data generated by NextGen Sequencing)

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ATGTCGGTGGTGGGGTTGGACGTGGGCTCGCAGAGCTGCTACATCGCGGTAGCCCGGGCC
GGGGGCATCGAGACCATCGCCAATGAGTTCAGCGACCGGTGCACCCCGTCAGTCATATCA
TTTGGATCAAAAAATAGAACAATCGGAGTTGCAGCCAAAAATCAGCAAATCACTCATGCA
AACAAACGGTGTCTAACTTCAAAGATTTTCATGGCCGAGCATTCAACGACCCCTTCACT
CAAAAGGAGAAGGAAAACTTGGATTACGATTTGGTTCCATTGAAAAATGGTGGAGTTGGA
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AGTCGAAACCATGCTGCTCCTTTCTCAAAGTTCTCACCTTTCTGAGAAGGGGGCCTTTT
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Clone variation with respect to NM_006644.2
228 t=>c;732 t=>c

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006644 unedited
 ATACGACTACTATAGGGCGGCCGGAATCGGCACGAGGGGCTGAGGAAGTGGGACCTCCC
 CTTTTGGGTCCGTAGTTCAGCGCCGCGCCGGTGTGCGAGCCGCGGCAGAGTGAGGCAGG
 CAACCCGAGGTGCGGAGCGACCTGCGGAGGCTGAGCCCCGCTTTCTCCAGGGTTTCTTA
 TCAGCCAGCCCGCGTGTCCCCGGGGAGTAGGAGGCTCCTGACAGGCCGCGGCTGTCTG
 TGTGTCTTCTGAGTGTAGAGGAACGGCCAGACCCCGGGCCGAGCAGAACGCGGCC
 AGGGCAGAAAGCGCGGCAGGAGAAGCAGGCAGGGGGCCGAGGACGCAGACCCGAGACCC
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 GACCGGTGACCCCGTCAGTCATATCATTTGGATCAAAAAATAGAACAATCGGAGTTGCA
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 GGCCGAGCATTCAACGACCCCTTATTCAAAAGGAGAAGGAAAACCTTGAGTTACGATTTG
 GTTCCATTGAAAAATGGTGGAGTTGGAATAAGGTAAATGTACATGGGTGAAGACATCTATN
 TAGTGTGGAGCAGATACAGCCATGTTGNTGACTAAGCTGAAGGAACTGCTGAAAACAGC
 CTAAGAACCAGTNNACAGATGTGTATTTCAAGTCCCCTCTTTTACGATGCTGAGAGG
 CGATCTGTGNTAGATGCTGCACAGATGGNTGCCCTAACTGNTAGAACTATGAATGACAT
 GACAGCTGTGCTTTGATTACGGAATTATAANCAGACTCCCAGCCTGATGAGAACTCGGGA
 AGGGGGTTTTGTGGAATGGAANTCACCTTNCAGGGTCTGCTGTGCTTACAGGAN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_006644 unedited
 GCTATGGACCGGCGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTGGAAAGAC
 ACCATAAGATGAACTTTATTTAAAGCTCATAAAAGTGTTCACAATCAGTTACAACAGGA
 TCGACATTTCTTCCATTCACACTTTCACATGACAATATACTGTATAGTGAGAGAGAAAAG
 TTTAAAGTTTTGTCTGCATGCTGCTAACACATTTGACTAGCTTTTGTTTTACTCATTG
 AATTTTTAATATCAAAGCAAAAAGTCATTTTCTTGGACAGAAATGGTTTTAGAAAAGCC
 CTTATGAAGTCAGACTTAGTCTTGTTTATAAACATCCACACCCACACACATGCTGAATGG
 AGAGCAAAATGCAAGAAAACCTTGGCAGGAACAAATGCTTAAAGATTTTAAATCACAG
 CCCTCTTGAACAAGCAGTACAGTTTTTTTTCTCCAAAAGACAAAAGTCAGTTTCATCCTC
 AGTGAGCAAAATGGTGAAGTGCACAGAAAGCTTAGTATGAATTCACAATCCACAGGAA
 TCTGAAAGTTACCAAGGCAATTTTCCCTTTTAGGATCATAAAGACTACAGACTTAAAGCTT
 TTTTCTTTTTCCATATAATACACAAAATTTCTAAATATCCTTAAAAAGAAAATATAAA
 TAGTTTACAGTATGTTATGTAGAGTCACATACTATGGCAAAAATATTTTATTAATTGAAGG
 AATAGGCCAATTTAAGGTTATCTAGTCCAAGTCCATATTAACAGAATTTTTCTCATTAGG
 GTAACATTCACCATCTGTGGNGGNAGGTTCCAGCACAAAAATGGNGTTTTGGNCTTCT
 AAATCTTCTCTTTTTATCAATNATTTGGCCAATTTTGGNAGTCTTTTCCAGTTTGGGT
 GAGTCAAATNTTGGNNTTTCGCGTTGGGGTACAACNGGGNTCACAAGNGGTGNTCAATT
 CCCTTGAATTTTGGTTAATTCCTGAGCCGTACACCTGGAAA

Restriction Sites:

NotI-NotI

ACCN:

NM_006644

Insert Size:

4000 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).

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_006644.2](#), [NP_006635.2](#)

RefSeq Size: 3680 bp

RefSeq ORF: 2577 bp

Locus ID: 10808

UniProt ID: [Q92598](#)

Cytogenetics: 13q12.3

Domains: HSP70

Protein Families: Stem cell - Pluripotency

Gene Summary: This gene encodes a member of the heat shock protein 70 family of proteins. The encoded protein functions as a nucleotide exchange factor for the molecular chaperone heat shock cognate 71 kDa protein (Hsc70). In addition, this protein plays a distinct but related role as a holdase that inhibits the aggregation of misfolded proteins, including the cystic fibrosis transmembrane conductance regulator (CFTR) protein. Elevated expression of this protein has been observed in numerous human cancers. [provided by RefSeq, Mar 2017]
Transcript Variant: This variant (1) represents the longest transcript and encodes isoform 1, also known as Hsp105alpha. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.