

## Product datasheet for **SC337513**

### Hsp105 (HSPH1) (NM\_001286503) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hsp105 (HSPH1) (NM_001286503) Human Untagged Clone
Tag:	Tag Free
Symbol:	HSPH1
Synonyms:	HSP105; HSP105A; HSP105B; NY-CO-25
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001286503, the custom clone sequence may differ by one or more nucleotides

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ATGTCGGTGGTGGGGTTGGACGTGGGCTCGCAGAGCTGCTACATCGCGGTAGCCCGGGCCGGGGGCATCG
AGACCATCGCAATGAGTTCAGCGACCGGTGCACCCCGTCAGTCATATCATTTGGATCAAAAAATAGAAC
AATCGGAGTTGCAGCCAAAAATCAGCAAATCACTCATGCAAACAATACGGTGTCTAACTTCAAAGATTT
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GCCTAACTGTTAAGACTTATGAATGACATGACAGCTGTTGCTTTGAATTACGGAATTTATAAGCAGGA
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GAGGCTGCAGCATTATGCCAAGATAGCAGCTGACTTCAGAAATAAGGATGAGAAATACAACCATATTGAT
GAGTCTGAAATGAAAAAGTGGAGAAGTCTGTTAATGAAGTGTGGAATGGATGAATAATGTCATGAATG
CTCAGGCTAAAAAGAGTCTTGATCAGGATCCAGTTGTACGTGCTCAGGAAATTAACAAAAAATCAAGGA
ATTGAACAACACATGTGAACCCGTTGTAACACAACCGAAACCAAAAAATGAATCACCCAACTGGAAAGA
ACTCCAAATGGCCAAATATTGATAAAAAGGAAGAAGATTTAGAAGACAAAAACAATTTTGGTGTGAAC
CTCCACATCAGAAATGGTGAATGTTACCCTAATGAGAAAAATTCTGTTAATATGGACTTGGACTAG
    
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**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001286503

**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_001286503.1</a> , <a href="#">NP_001273432.1</a>
<b>RefSeq Size:</b>	5228 bp
<b>RefSeq ORF:</b>	2445 bp
<b>Locus ID:</b>	10808
<b>UniProt ID:</b>	<a href="#">Q92598</a>
<b>Cytogenetics:</b>	13q12.3
<b>Protein Families:</b>	Stem cell - Pluripotency
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon, compared to variant 1. The encoded isoform (2, also known as Hsp105beta) is shorter than isoform 1. 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.</p>