

## Product datasheet for **RC239552**

### Hsp105 (HSPH1) (NM\_001286505) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hsp105 (HSPH1) (NM_001286505) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HSPH1
Synonyms:	HSP105; HSP105A; HSP105B; NY-CO-25
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide  
Sequence:

>RC239552 representing NM\_001286505  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGGCAACGGCGCCGTTCTCCGGGACCGGCTGCCATTGGGTAGAATCTTTCCAGAAGGCTCGAGAAG  
AAGGAAGCGGAAGTGGCAGTGGAGGGGCCGGTGGAGGCCCGGTCAGTCATATCATTGGATCAAAAAA  
TAGAACAAATCGGAGTTGCAGCAAAAAATCAGCAAATCACTCATGCAAAACAATACGGTGTCTAACTCAAA  
AGATTTTCATGGCCGAGCATTCAATGACCCTTCATTCAAAGGAGAAGGAAAACTTGAGTTACGATTTGG  
TTCCATTGAAAAATGGTGGAGTTGGAATAAAGGTAATGTACATGGGTGAAGAACATCTATTTAGTGTGGA  
GCAGATAACAGCCATGTTGTTGACTAAGCTGAAGGAACTGCTGAAAACAGCCTCAAGAAACAGTAACA  
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CCTTTCTCAAAGTTCTACCTTTCTGAGAAGGGGGCCTTTTGAGCTAGAAGCTTTCTATTCTGATCCCC  
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**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239552 representing NM\_001286505  
 Red=Cloning site Green=Tags(s)

MATAAVLRGPAAHWVESFQKAREEGSGSGTWRGRWRRRSVISFGSKNRTIGVAAKNQQITHANNTVSNFK  
 RFHGRFANDPFIQKEKENLSYDLVPLKNGGVGKVMYMGEHLFVEQITAMLLTKLKETAENSLKKPVT  
 DCVISVLGTA FDPFLGGKNFDEKLVEHFCAEFKTKYKLDKSKIRALLRLYQECEKLLKLMSSNSTDLPL  
 NIECFMNDKDVSGKMNRSQFEELCAELLQKIEVPLYSLLEQTHLKVEDVSAVEIVGGATRIPAVKERIAK  
 FFGKDISTTLNADEAVARGCALQCAILSPA FKVREFSVTDAVPPFISLIWNHDESETEGVHEVFSRNHAA  
 PFSKVL TFLRRGPFELEAFYSDPQGVPEAKIGRFVVQNVSAQKDGEKSRVKVVRVNTHGIFTISTAS  
 MVEKVPTEENEMSSEADMECLNQRPENPD DKNVQDENSEAGTQPQVQTD AQTSQSPSPPELTSEENK  
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 AVEEYVYEF RDKLCGPYEK FICEQDHQNFRLLLTETEDWLYEEGEDQAKQAYVDKLEELMKIGTPVKVRF  
 QEAEERPKMFEELGQRLQHYAKIAADFRNKDEKYNHIDSEMKKVEKSVNEVMWMMNVMAQAKKSLDQ  
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 PNEKNSVNMDLD

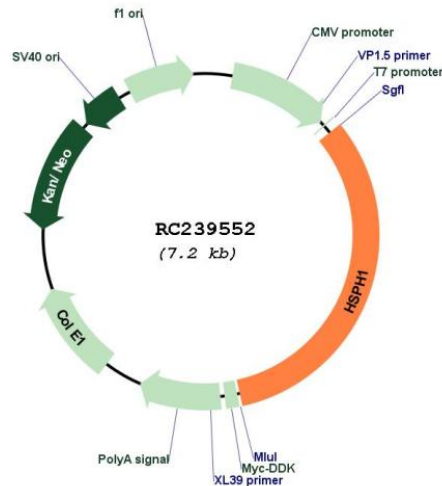
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfi-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_001286505

**ORF Size:** 2346 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_001286505.1](#), [NP\\_001273434.1](#)

**RefSeq Size:** 4987 bp

**RefSeq ORF:** 2349 bp

**Locus ID:** 10808

**UniProt ID:** [Q92598](#)

**Cytogenetics:** 13q12.3

**Protein Families:** Stem cell - Pluripotency

**MW:** 89.3 kDa

**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]