

Product datasheet for **RG239619**

Hsp105 (HSPH1) (NM_001286503) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hsp105 (HSPH1) (NM_001286503) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HSPH1
Synonyms:	HSP105; HSP105A; HSP105B; NY-CO-25
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG239619 representing NM_001286503.
 Blue=ORF Red=Cloning site Green=Tag(s)

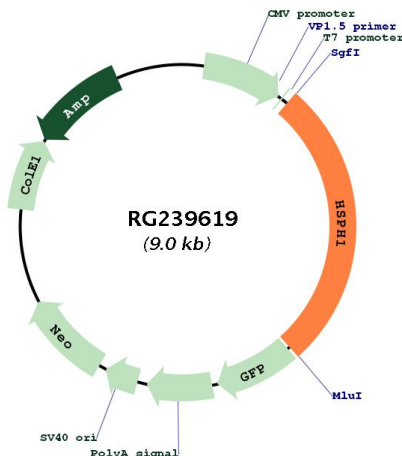
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AAAAATCTGTTAATATGGACTTGGAC
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
  
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Protein Sequence: >Peptide sequence encoded by RG239619
Blue=ORF Red=Cloning site Green=Tag(s)

MSVVGLDVGSSQCYIAVARAGGIETIANEFSDRCTPSVISFGSKNRTIGVAAKNQQITHANNTVSNFKR
FHGRAFNDFPIQKEKENLSYDLVPLKNGGVIKVMYMGEELFVSEQITAMLLTKLKETAENSLKPKVT
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PIEANLVWQLGKDLLNMYIETEGKMIMQDKLEKERNDAKNAVEEYVYEFRDKLCGPYEKFIQEQDHQNF
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MGYGFYHFGTYP SGYENPFLHAINNGGYTNRIEKYEDGGVLHVSFSYRYEAGRVI GDFKVMGTGFPEP
SVIFTDKIIRS NATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHP SILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Plasmid Map:


ACCN: NM_001286503

ORF Size: 2442 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).

RefSeq: [NM_001286503.1](#), [NP_001273432.1](#)

RefSeq Size: 5228 bp

RefSeq ORF: 2445 bp

Locus ID: 10808

UniProt ID: [Q92598](#)

Cytogenetics: 13q12.3

Protein Families: Stem cell - Pluripotency

MW: 92.6 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]