

Product datasheet for **RG207102**

Hsp105 (HSPH1) (NM_006644) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hsp105 (HSPH1) (NM_006644) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hsp105
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:

>RG207102 representing NM_006644
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCGGTGGTGGGGTTGGACGTGGGCTCGCAGAGCTGCTACATCGCGGTAGCCCGGCCGGGGGCATCG
 AGACCATCGCCAATGAGTTCAGCGACCGGTGCACCCCGTCAGTCATATCATTTGGATCAAAAAATAGAAC
 AATCGGAGTTGCAGCAGCAAAAATCAGCAAACTCACTCATGCAAAACAATACGGTGTCTAACTTCAAAAAGATT
 CATGGCCGAGCATTCAATGACCCCTTCATTCAAAAAGGAGAAGGAAAACTTGAGTTACGATTTGGTCCAT
 TGAAAAATGGTGGAGTTGGAATAAAGGTAATGTACATGGGTGAAGAACATCTATTTAGTGTGGAGCAGAT
 AACAGCCATGTTGTTGACTAAGCTGAAGGAACTGCTGAAAACAGCCTCAAGAAACAGTAAACAGATTGT
 GTTATTTTCAGTCCCTCCTTCTTACAGATGCTGAGAGGCGATCTGTGTTAGATGCTGCACAGATTGTTG
 GCCTAACTGTTAAGACTTATGAATGACATGACAGCTGTTGCTTTGAATTACGGAAATTTATAAGCAGGA
 TCTCCCAAGCCTGGATGAGAAACCTCGGATAGTGGTTTTTGTGATATGGGACATTCAGCTTTTCAAGTG
 TCTGCTTGTGCTTTTAAACAAGGAAAAATGAAGGTAAGTGGAAACAGCTTTTGATCCTTTCTTAGGAGGAA
 AAAACTTCGATGAAAAGTTAGTGGAACTTTTTGTGCAAGATTTAAAACAAAGTACAAGTTGGATGCAAA
 ATCCAAAATACGAGCACTCCTACGTCTGTATCAGGAATGTGAAAACTGAAAAAGCTAATGAGCTCTAAC
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 AACTCATCTCAAAGTGAAGATGTGAGTGCAGTTGAGATTGTTGGAGGCGCTACACGAATCCAGCTGTG
 AAGGAAAGAATTGCCAAATCTTTGGAAAAGATATTAGCACAACACTCAATGCAGATGAAGCAGTAGCCA
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 TGGAGTGTCTGAATCAGAGACCACCAGAAAACCCAGACACTGATAAAAAATGTCCAGCAAGACAACAGTGA
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 ACCTCAGAAGAAAAACAAATCCCAGATGCTGACAAAGCAAAATGAAAAAAAAGTTGACCAGCCTCCAGAAG
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 AGGAATGATGCTAAAAATGCAGTTGAGGAATATGTGTATGAGTTCAGAGACAAGCTGTGTGGACCATATG
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 AATGAAAAAAGTGGAGAAGTCTGTTAATGAAGTATGGAATGGATGAATAATGTCATGAATGCTCAGGCT
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 ACACATGTGAACCGTTGTAACAACAACCGAAACAAAAATTTGAATCACCCAACTGGAAAGAACTCCAAA
 TGGCCCAATATTGATAAAAAGGAAGAAGATTTAGAAGACAAAAACAATTTTGGTCTGAACCTCCACAT
 CAGAAATGGTGAATGTTACCCTAATGAGAAAAATCTGTTAATATGGACTTGGAC

ACCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG207102 representing NM_006644
Red=Cloning site Green=Tags(s)

MSVVGLDVGSQSCYIAVARAGGIETIANEFSDRCTPSVISFGSKNRTIGVAAKNQQITHANNTVSNFKRF
HGRAFNDFPIQKEKENLSYDLVPLKNGGVGKVMYMGEEHLFSVEQITAMLLTKLKETAENSLKKPVTDC
VISVPSFFTDERRSVLDAAQIVGLNCLRLMNDMTAVALNYGIYKQDLPSLDEKPRIVVFVDMGHSAFQV
SACAFNKGKLVLTAFDPPFLGGKNFDEKLVEHFCAEFKTKYKLDKSKIRALLRLYQECEKLLKLMSSN
STDPLNIECFMNDKDVSGKMNRSQFEELCAELLQKIEVPLYSLLEQTHLKVEDVSAVEIVGGATRIPAV
KERIAKFFGKDI STTLNADEAVARGCALQCAILSPAFAKVRFSVTDAVPFPI SLIWNHDS EDTEGVHEVF
SRNHAAPFSKVL TFLRRGPFELEAFYSDPQGVPYPEAKIGRFVQVNSAQKDGEKSRVKVVRVNTHGIF
TISTASMVEKVPTEENEMSSEADMECLNQRPPENPDTDKNVQQDNSEAGTQPQVQTDAAQTSQSPSPSEL
TSEENKIPDADKANEKKVDQPPEAKPKIKVVNVELPIEANLVWQLGKDLLNMYIETEGKMIMQDKLEKE
RNDAKNAVEEYVYFRDKLCGPYEKFI CEQDHQNFRLRL TETEDWL YEEGEDQAKQAYVDKLEELMKIGT
PVKVRVQEAERPKMFEELGQRLQHYAKIAADFRNKDEKYNHIDESEMKKVEKSVNEVMWMMNNVMNAQA
KKSLDQDPVVRAQEIKTKIKELNNTCEPVVTQPKPKIESPKLERTPNGPNIDKKEEDLEDKNNFGAEPH
QNGECYPNEKNSVNMDLD

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

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_006644.4](#)

RefSeq Size: 3680 bp

RefSeq ORF: 2577 bp

Locus ID: 10808

UniProt ID: [Q92598](#)

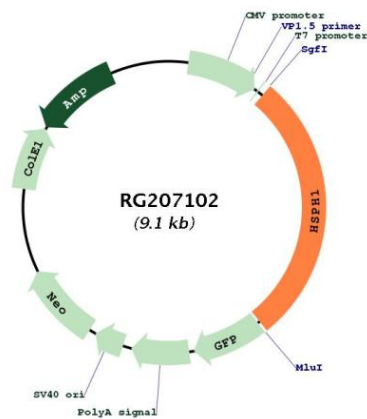
Cytogenetics: 13q12.3

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]

Product images:



Circular map for RG207102