

Product datasheet for **RG201070**

HSP90AB1 (NM_007355) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HSP90AB1 (NM_007355) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HSP90AB1
Synonyms:	D6S182; HSP84; HSP90B; HSPC2; HSPCB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG201070 representing NM_007355
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCTGAGGAAGTGCACCATGGAGAGGAGGAGGTGGAGACTTTTGCCTTCAGGCAGAAATGCCCAAC
 TCATGTCCCTCATCATCAATACCTTCTATTCCAACAAGGAGATTTTCTTCGGGAGTTGATCTCTAATGC
 TTCTGATGCCTTGACAAGATTTCGCTATGAGAGCCTGACAGACCCTTCGAAGTTGGACAGTGGTAAAGAG
 CTGAAAATTGACATCATCCCAACCCTCAGGAACGTACCCTGACTTTGGTAGACACAGGCATTGGCATGA
 CCAAAGCTGATCTCATAAATAATTTGGGAACCATTGCCAAGTCTGGTACTAAAGCATTATGGAGGCTCT
 TCAGGCTGGTGCAGACATCTCCATGATTGGGCAGTTTGGTGTGGCTTTTATTCTGCCTACTTGGTGGCA
 GAGAAAGTGGTTGTGATCACAAGCACAACGATGATGAACAGTATGCTTGGGAGTCTTCTGCTGGAGGTT
 CCTTCACTGTGCGTGCTGACCATGGTGAAGCCATTGGCAGGGTACCAAAGTGATCTCCATCTTAAAGA
 AGATCAGACAGAGTACCTAGAAGAGAGGGCGGTCAAAGAAGTAGTGAAGAAGCATTCTCAGTTCATAGGC
 TATCCCATCACCTTTATTTGGAGAAGGAACGAGAGAAGGAAATTAGTGATGATGAGGCAGAGGAAGAGA
 AAGGTGAGAAAAGAGGAAGATAAAGATGATGAAGAAAAACCAAGATCGAAGATGTGGGTTTCAGATGA
 GGAGGATGACAGCGGTAAGGATAAGAAGAAGAAAACTAAGAAGATCAAAGAGAAATACATTGATCAGGAA
 GAATAACAAGACCAAGCCTATTTGGACCAGAAACCCTGATGACATCACCAAGAGGAGTATGGAGAAT
 TCTACAAGAGCCTCACTAATGACTGGGAAGACCACTTGGCAGTCAAGCACTTTTCTGTAGAAGGTGAGTT
 GGAATTCAGGGCATTGCTATTTATTCCTCGTGGGCTCCCTTTGACCTTTTGGAGAACAAGAAAAAG
 AACAACATCAAACCTCTATGTCCGCCGTGTTCATCATGGACAGCTGTGATGAGTTGATACCAGAGTATC
 TCAATTTTATCCGTGGTGTGGTTGACTCTGAGGATCTGCCCTGAACATCTCCCGAGAAATGCTCCAGCA
 GAGCAAAATCTTGAAAGTCAATTCGCAAAAACATTGTTAAGAAGTGCCTTGAGCTTCTCTGAGCTGGCA
 GAAGACAAGGAGAATTACAAGAAATCTATGAGGCATTCTCAAAAAATCTCAAGCTTGAATCCACGAAG
 ACTCCACTAACCGCCGCCGCTGTCTGAGCTGCTGCGCTATCATACCTCCAGTCTGGAGATGAGATGAC
 ATCTCTGTGAGATATGTTTCTCGCATGAAGGAGACACAGAAGTCCATCTATTACATCACTGGTGAAGC
 AAAGAGCAGGTGGCCAACTCAGCTTTTGTGGAGCGAGTGCAGAAACGGGCTTCGAGGTGGTATATGA
 CCGAGCCATTGACGAGTACTGTGTGCAGCAGCTCAAGGAATTTGATGGGAAGAGCCTGGTCTCAGTTAC
 CAAGGAGGCTGGAGCTGCCTGAGGATGAGGAGGAGAAGAAGAAGATGGAAGAGAGCAAGGCAAAGTTT
 GAGAACCCTGCAAGCTCATGAAAGAAATCTTAGATAAGAAGGTTGAGAAGGTGACAATCTCCAATAGAC
 TTGTGTCTTACCTTGCTGCATTGTGACCAGCACCTACGGCTGGACAGCCAATATGGAGCGGATCATGAA
 AGCCAGGCACCTTCGGGACAACCTCCACCATGGGCTATATGATGGCCAAAAAGCACCTGGAGATCAACCT
 GACCACCCATTGTGGAGACGCTGCGGCAGAAGGCTGAGGCCGACAAGAATGATAAGGCAGTTAAGGACC
 TGGTGGTGTGCTGTTTGAACCGCCCTGCTATCTTCTGGCTTTTCCCTTGAGGATCCCCAGACCCACTC
 CAACCGCATCTATCGCATGATCAAGCTAGGTCTAGGTATTGATGAAGATGAAGTGGCAGCAGAGGAACCC
 AATGCTGCAGTTCCTGATGAGATCCCCCTCTCGAGGGCGATGAGGATGCGTCTCGCATGGAAGAAGTCG
 AT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG201070 representing NM_007355
 Red=Cloning site Green=Tags(s)

MPEEVHHGEEEVETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNASDALDKIRYESLTDPSKLDSGKE
 LKIDIIPNPQERTLTLVDTGIGMTKADLINNLTIAKSGTKAFMEALQAGADISMGQFVGVFYSAYLVA
 EKVVVITKHNDDEQYAWESSAGGSFTVRADHGEPVGRGTVILHLKEDQTEYLEERRVKEVVKHSQFIG
 YPITLYLEKEREKEISDDEAEKEEKEEEDKDDEEKPKIEDVGSDEEDDSGKDKKKKTKIKEKYIDQE
 ELNKTPIWTRNPDDITQEEYGEFYKSLTNDWEDHLAVKHFVSEGQLEFRALLFIPRRAPFDL FENK KKK
 NNKLYVRRVFI MDSCELIPEYLNFI RGVVDS EDLPLNISREMLQQSKILKVIKNI VVKCLELFS E
 LADKENYKFFYEF SKNLKLG I HEDSTNRRRLSELLRYHTSQSGDEMTSLSEYVSRMKETQKSIYYITGES
 KEQVANS AFVERVRKRGFEVVMTEPIDEYCVQQLKEFDGKSLVSVTKEGLELPEDEEEKKMEESKAKF
 ENLCKLMKEILDKKVEKVTISNRLVSSPCIVTSTYGWTANMERIMKAQALRDNSTMGYMAKKHLEINP
 DHPIVETLRQKAEADKNDKAVKDLVLLFETALLSSGFSLEDPQTHSNRIYRMIKLGLGIDEVEVAEEP
 NAAVPDEIPPLEGDEDASRMEEVD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_007355

ORF Size: 2172 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_007355.4](#)

RefSeq Size: 2567 bp

RefSeq ORF: 2175 bp

Locus ID: 3326

UniProt ID: [P08238](#)

Cytogenetics: 6p21.1

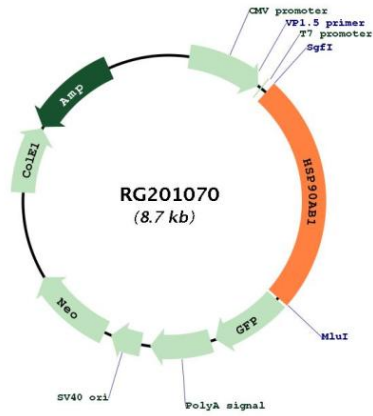
Domains: HSP90, HATPase_c

Protein Families: Druggable Genome, Stem cell - Pluripotency

Protein Pathways: Antigen processing and presentation, NOD-like receptor signaling pathway, Pathways in cancer, Progesterone-mediated oocyte maturation, Prostate cancer

Gene Summary: This gene encodes a member of the heat shock protein 90 family; these proteins are involved in signal transduction, protein folding and degradation and morphological evolution. This gene encodes the constitutive form of the cytosolic 90 kDa heat-shock protein and is thought to play a role in gastric apoptosis and inflammation. Alternative splicing results in multiple transcript variants. Pseudogenes have been identified on multiple chromosomes. [provided by RefSeq, Dec 2012]

Product images:



Circular map for RG201070