

Product datasheet for **RG234693**

HSP90AB1 (NM_001271971) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HSP90AB1 (NM_001271971) 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)



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**ORF Nucleotide
Sequence:**

>RG234693 representing NM_001271971
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCTGAGGAAGTGCACCATGGAGAGGAGGAGGTGGAGACTTTTGCCTTCAGGCAGAAATGCCCAAC
 TCATGTCCCTCATCATCAATACCTTCTATTCCAACAAGGAGATTTTCCTTCGGGAGTTGATCTCTAATGC
 TTCTGATGCCTTGACAAGATTGCTATGAGAGCCTGACAGACCCTTCGAAGTTGGACAGTGGTAAAGAG
 CTGAAAATTGACATCTCCATGATTGGGCAGTTTGGTGTGGCTTTTATTCTGCCTACTTGGTGGCAGAGA
 AAGTGGTTGTGATCACAAGCACAACGATGATGAACAGTATGCTTGGGAGTCTTCTGCTGGAGGTTCCCTT
 CACTGTGCGTGTGACCATGGTGGAGCCATTGGCAGGGTACCAAAGTATCCTCCATCTTAAAGAAGAT
 CAGACAGAGTACCTAGAAGAGAGCGGGTCAAAGAAGTAGTGAAGAAGCATTCTCAGTTCATAGGCTATC
 CCATCACCTTTATTTGGAGAAGGAACGAGAGAAGGAAATTAGTGATGATGAGGCAGAGGAAGAGAAAGG
 TGAAAAGAAGAGGAAGATAAAGATGATGAAGAAAACCAAGATCGAAGATGTGGGTTCCAGATGAGGAG
 GATGACAGCGGTAAAGATAAGAAGAAGAAAACCTAAGAAGATCAAAGAGAAATACATTGATCAGGAAGAAC
 TAAACAAGACCAAGCCTATTTGGACCAGAAACCCTGATGACATCACCCAAGAGGAGTATGGAGAATTCTA
 CAAGAGCCTCACTAATGACTGGGAAGACCATTGGCAGTCAAGCACTTTTCTGTAGAAGGTGAGTTGGAA
 TTCAGGGCATTGCTATTTATTCCTCGTCGGGCTCCCTTTGACCTTTTGGAGAACAAGAAGAAAAGAACA
 ACATCAAACCTCTATGTCCGCCGTGTGTTTCATCATGGACAGCTGTGATGAGTTGATACCAGAGTATCTCAA
 TTTTATCCGTGGTGTGGTTGACTCTGAGGATCTGCCCCGAACATCTCCCGAGAAATGCTCCAGCAGAGC
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 ACAAGGAAATTACAAGAAATTTCTATGAGGCATTCTCTAAAAATCTCAAGCTTGGAAATCCAGAGACTC
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 AGCAGGTGGCCAACCTCAGCTTTTGTGGAGCGAGTGCAGAAACGGGGCTTCGAGGTGGTATATATGACCGA
 GCCCATTGACGAGTACTGTGTCAGCAGCTCAAGGAATTTGATGGGAAGAGCCTGGTCTCAGTTACCAAG
 GAGGGTCTGGAGCTGCCTGAGGATGAGGAGGAGAAGAAGAAGATGGAAGAGAGCAAGGCAAAGTTTGAGA
 ACCTCTGCAAGCTCATGAAAGAAATCTTAGATAAGAAGTTGAGAAGGTGACAATCTCCAATAGACTTGT
 GTCTTACCTTGTGCTGATTGTGACCAGCACCTACGGCTGGACAGCCAATATGGAGCGGATCATGAAAGCC
 CAGGCACCTTCGGGACAACCTCCACCATGGGCTATATGATGGCCAAAAGCACCTGGAGATCAACCCTGACC
 ACCCCATTGTGGAGACGCTGCGGCAGAAGGCTGAGGCCGACAAGAATGATAAGGCAGTTAAGGACCTGGT
 GGTGCTGCTGTTTGAACCGCCCTGCTATCTTCTGGCTTTTCCCTTGAGGATCCCCAGACCCCACTCCAAC
 CGCATCTATCGCATGATCAAGCTAGGTCTAGGTATTGATGAAGATGAAGTGGCAGCAGAGGAACCCAATG
 CTGAGTTCCTGATGAGATCCCCCTCTCGAGGGCGATGAGGATGCGTCTCGCATGGAAGAAGTCGAT

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG234693 representing NM_001271971
 Red=Cloning site Green=Tags(s)

MPEEVHHGEEEVETFAFQAEIAQLMSLIINTFYSNKEIFLRELI SNASDALDKIRYESLTDPSKLDSGKE
 LKIDISMIQGFVGFYSAYLVAEKVVVITKHNDEQYAWESSAGGSFTVRADHGPEIGRGTKVLHLKED
 QTEYLEERRVKEVVKHSQFIGYPITLYLEKEREKEISDDEAEEEEKGEKEEEDKDDEEKPKIEDVGSDEE
 DDSGKDKKKKTKIKEKYIDQEELNKTPIWTRNPDDITQEEYGEFYKSLTNDWEDHLAVKHFVSEGQLE
 FRALLFIPRRAPFDL FENKKKKNNIKLYVRRVFIMDSCDELIPEYLNFIIRGVVDEDLPLNISREMLQQS
 KILKVIKRNIVKCLELFSELAEDKENYKFFYEAFFSKNLKLG IHEDSTNRRRLSELLRYHTSQSGDEMTS
 LSEYVSRMKETQKSIYYITGESKEQVANSAFVERVRKRGFEVVMTEPIDEYCVQQLKEFDGKSLVSVTK
 EGLELPEDEEEKKMEESKAKFENLCKLMKEILDKKVEKVTISNRLVSSPCCIVTSTYGWTANMERIMKA
 QALRDNSTMGYMAKKHLEINPDHPIVETLRQKAEADKNDKAVKDLVLLFETALLSSGFSLEDQPQTHSN
 RIYRMIKLGLGIDEVAEEPNAAVPDEIPPLEGDEDA SRMEEVD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001271971

ORF Size: 2028 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_001271971.1](#), [NP_001258900.1](#)

RefSeq Size: 2559 bp

RefSeq ORF: 2031 bp

Locus ID: 3326

UniProt ID: [P08238](#)

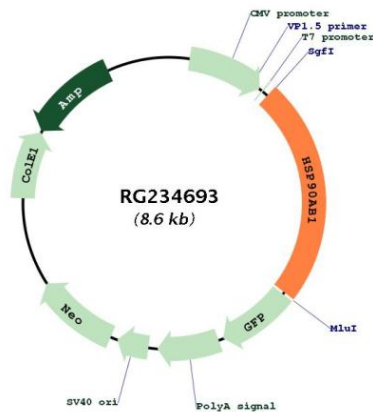
Cytogenetics: 6p21.1

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 RG234693