

## Product datasheet for **RC234693**

### HSP90AB1 (NM\_001271971) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HSP90AB1 (NM_001271971) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HSP90AB1
Synonyms:	D6S182; HSP84; HSP90B; HSPC2; HSPCB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC234693 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  
 CAAGAGCCTCACTAATGACTGGGAAGACCACTTGGCAGTCAAGCACTTTTCTGTAGAAGGTGAGTTGGAA  
 TTCAGGGCATTGCTATTTATTCCTCGTCGGGCTCCCTTTGACCTTTTGGAGAACAAGAAGAAAAGAACA  
 ACATCAAACCTCTATGTCCGCCGTGTGTTTCATCATGGACAGCTGTGATGAGTTGATACCAGAGTATCTCAA  
 TTTTATCCGTGGTGTGGTTGACTCTGAGGATCTGCCCCGAACATCTCCCGAGAAATGCTCCAGCAGAGC  
 AAAATCTTGAAAGTCATTCGCAAAAACATTGTTAAGAAGTGCCTTGAGCTCTTCTCTGAGCTGGCAGAAG  
 ACAAGGAGAATTACAAGAAATTTCTATGAGGCATTCTCTAAAAATCTCAAGCTTGGAAATCCACGAAGACTC  
 CACTAACC GCCCGCCCTGTCTGAGCTGTGCGCTATCATACCTCCAGTCTGGAGATGAGATGACATCT  
 CTGTGAGAGTATGTTTCTCGCATGAAGGAGACACAGAAGTCCATCTATTACATCACTGGTGGAGGAAAG  
 AGCAGGTGGCCAACCTCAGCTTTTGTGGAGCGAGTGCAGAAACGGGGCTTCGAGGTGGTATATATGACCGA  
 GCCCATTGACGAGTACTGTGTGACGAGCTCAAGGAATTTGATGGGAAGAGCCTGGTCTCAGTTACCAAG  
 GAGGGTCTGGAGCTGCCTGAGGATGAGGAGGAGAAGAAGAAGATGGAAGAGAGCAAGGCAAAGTTTGAGA  
 ACCTCTGCAAGCTCATGAAAGAAATCTTAGATAAGAAGTTGAGAAGGTGACAATCTCCAATAGACTTGT  
 GTCTTACCTTGTGCTGATTGTGACCAGCACCTACGGCTGGACAGCCAATATGGAGCGGATCATGAAAGCC  
 CAGGCACCTTCGGGACAACCTCCACCATGGGCTATATGATGGCCAAAAGCACCTGGAGATCAACCCTGACC  
 ACCCCATTGTGGAGACGCTGCGGCAGAAGGCTGAGGCCGACAAGAATGATAAGGCAGTTAAGGACCTGGT  
 GGTGCTGCTGTTTGAACCGCCCTGCTATCTTCTGGCTTTTCCCTTGAGGATCCCCAGACCCACTCCAAC  
 CGCATCTATCGCATGATCAAGCTAGGTCTAGGTATTGATGAAGATGAAGTGGCAGCAGAGGAACCCAATG  
 CTGAGTTCCTGATGAGATCCCCCTCTCGAGGGCGATGAGGATGCGTCTCGCATGGAAGAAGTCGAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC234693 representing NM\_001271971  
Red=Cloning site Green=Tags(s)

MPEEVHHGEEEVETFAFQAEIAQLMSLIINTFYNSKEIFLRELISNASDALDKIRYESLTDPSKLDSGKE  
 LKIDISMIQGFVGFYSAYLVAEKVVVITKHNDEQYAWESSAGGSFTVRADHGPEIGRGTKVLHLKED  
 QTEYLEERRVKEVVKHSQFIGYPITLYLEKEREKEISDDEAEEEEKEKEEEDKDDEEKPIEDVGSDEE  
 DDSGKDKKKKTKIKEKYIDQEELNKTPIWTRNPDDITQEEYGEFYKSLTNDWEDHLAVKHFVSEGQLE  
 FRALLFIPRRAPFDL FENKKKKNNIKLYVRRVFIMDSCDELIPEYLNFRIGVVVDEDLPLNISREMLQQS  
 KILKVIKRNIVKCLELFSELAEDKENYKFFYEAFSKNLKLGIHEDSTNRRRLSELLRYHTSQSGDEMTS  
 LSEYVSRMKETQKSIYYITGESKEQVANSFAVERVRKRGFEVVMTEPIDEYCVQQLKEFDGKSLVSVTK  
 EGLELPEDEEEKKMEESKAKFENLCKLMKEILDKKVEKVTISNRLVSSPCCIVTSTYGWTANMERIMKA  
 QALRDNSTMGYMAKKHLEINPDHPIVETLRQKAEADKNDKAVKDLVLLFETALLSSGFLEDPQTHSN  
 RIYRMIKLGLGIDEVAEEPNAAVPDEIPPLEGDEEDASRMEEVD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**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

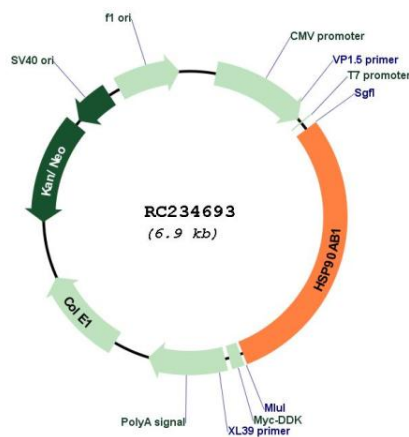
**Protein Families:** Druggable Genome, Stem cell - Pluripotency

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

**MW:** 78.7 kDa

**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 RC234693