

## Product datasheet for **SC302090**

### **HSP90AA1 (NM\_001017963) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	HSP90AA1 (NM_001017963) Human Untagged Clone
Tag:	Tag Free
Symbol:	HSP90AA1
Synonyms:	EL52; HEL-S-65p; HSP86; Hsp89; HSP89A; Hsp90; HSP90A; HSP90N; Hsp103; HSPC1; HSPCA; HSPCAL1; HSPCAL4; HSPN; LAP-2; LAP2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

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>OriGene ORF sequence for NM_001017963 edited
ATGCCCCCGTGTTCGGGCGGGGACGGCTCCACCCTCCTGGGCCCTCCCTTCGGGACAGG
GACTGTCCCGCCAGAGTGTGAATACCCGCGCGACCGTCTGGATCCCGCCAGGAAGC
CCCTCTGAAGCCTCCTCGCCGCCGTTTCTGAGAAGGGCACCTGTTAACTGGTACCAAGAA
AAGGCCAAGTGTCTCTGGCATCTGTTGGTGTCTGGATCCACCACTCTACTCTGTCTC
TGGAAACAGCCCTCCACGTCTCTGCATTCCCTGTCACCTGCGTCACTGGCCTTCAGACAG
AGCCAAGGTGCAGGGCAACACCTCTACAAGGATCTGCAGCCATTTATATTGCTTAGGCTA
CTGATGCCTGAGGAAACCAGACCCAAGACCAACCGATGGAGGAGGAGGAGGTTGAGACG
TTCGCCTTTCAGGCAGAAATTGCCAGTTGATGTCATTGATCATCAATACTTTCTACTCG
AACAAAGAGATCTTTCTGAGAGAGCTCATTTCAAATTCATCAGATGCATTGGACAAAATC
CGGTATGAAAGCTTGACAGATCCCAGTAAATTAGACTCTGGGAAAGAGCTGCATATTAAC
CTTATACCGAACAAACAAGATCGAACTCTCACTATTGTGGATACTGGAATTGGAATGACC
AAGGCTGACTTGATCAATAACCTTGGTACTATCGCCAAGTCTGGGACCAAAGCGTTCATG
GAAGCTTTCAGGCTGGTGCAGATATCTCTATGATTGGCCAGTTCGGTGTGGTTTTTAT
TCTGCTTATTTGGTTGCTGAGAAAGTAACTGTGATCACCAAACATAACGATGATGAGCAG
TACGCTTGGGAGTCTCAGCAGGGGGATCATTCACAGTGAGGACAGACACAGGTGAACCT
ATGGGTCGTGGAACAAAAGTTATCCTACACCTGAAAGAAGACCAAACCTGAGTACTTGGAG
GAACGAAGAATAAAGGAGATTGTGAAGAAACATTCAGTTTATTGGATATCCCATTACT
CTTTTTGTGGAGAAGGAACGTGATAAAGAAGTAAGCGATGATGAGGCTGAAGAAAAGGAA
GACAAAGAAGAAGAAAAAGAAAAGAAGAGAAAGAGTCCGGAAGACAAACCTGAAATTGAA
GATGTTGGTCTGATGAGGAAGAAGAAAAGAAGGATGGTGACAAGAAGAAGAAGAAGAAG
ATTAAGGAAAAGTACATCGATCAAGAAGAGCTCAACAAAAACAAAGCCCATCTGGACCAGA
AATCCCGACGATATTACTAATGAGGAGTACGGAGAATTTCTATAAGAGCTTGACCAATGAC
TGGGAAGATCACTTGGCAGTGAAGCATTTTTTCAGTTGAAGGACAGTTGGAATTCAGAGCC
CTTCTATTTGTCACGACGTGCTCCTTTTGTCTGTTTGAACAGAAAGAAAAAGAAC
AATATCAAATGTATGTACGCAGAGTTTTTCATCATGGATAACTGTGAGGAGCTAATCCCT
GAATATCTGAACTTCATTAGAGGGGTGGTACTCGGAGGATCTCCCTCTAAACATATCC
CGTGAGATGTTGCAACAAAGCAAATTTTGAAGTTATCAGGAAGATTTGGTCAAAAAA
TGCTTAGAACTCTTACTGAACTGGCGGAAGATAAAGAGAACTACAAGAAATTCATGAG
CAGTTCTCTAAAAACATAAAGCTTGAATACACGAAGACTCTCAAATCGGAAGAAGCTT
TCAGAGCTGTTAAGGTACTACACATCTGCCTCTGGTGATGAGATGTTTTCTCAAGGAC
TACTGCACCAGAATGAAGGAGAACCAGAAACATATCTATTATATCACAGGTGAGACCAAG
GACCAGGTAGCTAACTCAGCCTTTGTGGAACGTCTTCGGAACATGGCTTAGAAGTGATC
TATATGATTGAGCCCATGATGAGTACTGTGTCCAACAGCTGAAGGAATTTGAGGGGAAG
ACTTTAGTGTGAGTACCAAAAGAAGGCCTGGAACCTCCAGAGGATGAAGAAGAGAAAAAG
AAGCAGGAAGAGAAAAAAACAAAGTTTGAAGACCTCTGCAAAATCATGAAAGACATATTG
GAGAAAAAAGTTGAAAAGGTGGTTGTGTCAAACCGATTGGTGACATCTCCATGCTGATT
GTCACAAGCACATATGGCTGGACAGCAAACATGGAGAGAATCATGAAAGCTCAAGCCCTA
AGAGACAACCTCAACAATGGGTTACATGGCAGCAAAGAAACACCTGGAGATAAACCCCTGAC
CATTCCATTATTGAGACCTTAAGGCAAAAGGCAGAGGCTGATAAGAACGACAAGTCTGTG
AAGGATCTGGTCACTTGTCTTATGAAACTGCGCTCCTGTCTTCTGGCTTCAGTCTGGAA
GATCCCCAGACACATGCTAACAGGATCTACAGGATGATCAAACCTTGGTCTGGGTATTGAT
GAAGATGACCCTACTGCTGATGATACCAGTGCTGCTGTAACCTGAAGAAATGCCACCCCTT
GAAGGAGATGACGACACATCACGCATGGAAGAAGTAGACTAA
    
```

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_001017963 unedited  
 CGCTCCTTTAGGCGGCCGGAATTCGGCACGAGGCTTCCCTGGCGTGCTCCACCCGACTG  
 GGGCTCCGAGGCTCCTCCCCGGGTGTGGCCTCCGGGCGGCATGGCTGCTTCCCAAGGT  
 GATGCCGGCTTCACTAGTGGGGTCTAGTTGACCGTTCGCGAGCCGCCAGGGCCAGCGGA  
 AAGCCGGTCAGGGGAACCGCGGGGGCTGGTGTATGAGCCTGAGGTGAACTTGAGGG  
 TGCTCCTCAGCGGTCTCCCGCCTGCCCTGAGGGGCGCCGGGACCCCAAAGAGCGGAGG  
 AAGAAGCGCCACCCGACGGCCACCGCTTCGGAGCCAGCACGCGGGGTACCCTACGGGGA  
 GCGCGGATGCCCCGTGTTGCGGCGGGGACGGCTCCACCCCTCTGGGCCCTCCCTTCG  
 GGACAGGGGACTGTCCCGCCAGAGTGCTGAATACCCGCGCAACCGTCTGGATCCCCGC  
 CCAGGAAGCCCTCTGAAGCCTCTGNCGNCGTTTCTGAGAAAGGCACCTGTTAACTG  
 GTACCAAGAAAAGCCCAAGTGTTTCTCTGCATCTGGTTGGTGTNCTGAATCACCCTCTA  
 CTCTGTCTCTGAAAACAGCCTTCCACGTCTCTGCATTCCCTGTCCTGCGTCACTGGCCT  
 TCAACAAGCCAGGGGCGAGGGAACACCTTACAGGATCTGAGCCTAATATGCTTGGCTAC  
 TGAGCCTGAGGAACCAGACCAGACAACATGAGGGGGGGGGGGTAAAAATTTCTTTTAG  
 AAAAATTGCAAGGAGCATTAAATAAACTTTTTATGACAAAAATTTTTGAAGAGTAT  
 TTAATATAAAAGCTGAAAAACCGTTGAAATTGCAAACCTAATTACTTGAAAAATTGTT  
 AAACCTTACAAAAAATGACTTTTTTGGGTAA

**3' Read Nucleotide Sequence:**

>Forward primer walk for NM\_001017963 unedited  
 ATCATGNAAGCTCAAGCCCTAAAAGACAACCTCAACAATGGGTTACATGGCAGCAAAGAA  
 CACCTGGAGATAAACCTGACCATTCCATTATTGAGACCTTAAGGCAAAGGCAGAGGCT  
 GATAAGAACGACAAGTCTGTGAAGGATCTGGTCATCTTGCTTTATGAAACTGCGTCCTG  
 TCTTCTGGCTTCACTCTGGAAGATCCCCAGACACATGCTAACAGGATCTACAGGATGATC  
 AAACCTGGTCTGGTATTGATGAAGATGACCCTACTGCTGATGATACCAGTGCTGCTGTA  
 ACTGAAGAAATGCCACCCTTGAAGGAGATGACGACACATCACGCATGGAAGAAGTAGAC  
 TAATCTCTGGCTGAGGGATGACTTACCTGTTTCACTACTCTACAATTCCTCTGATAATATA  
 TTTTCAAGGATGTTTTCTTTATTTTTGTTAATATTAAGTCTGTATGGCATGACAAC  
 TACTTTAAGGNGAAGATAAGATTTCTGTCTACTAAGTGATGCTGTGATACCTTANGCACT  
 AAAGCAGAGCTAGTAATGCTTTTTGAGTTTCATGTTGGTTATTTTACAGATTGGGGTA  
 ACGTGCCTGNTAGACGTATGTAACATGATGTTAACTTTGTGGTCTANAGTGTTTAGC  
 TGCAAGCCGGATGCCTAANTAGACCAAATCTTGTATTTGAATGTTCTGAGCTGTATCTT  
 GATGTTTAGAAAAGTATTCGTTACATCTTGAAGATCTACCTTTTTGACCTTTCATTCCC  
 TGTATTTGACAATTCGCTGTTCTAATCCTTAGAAAAAGGTTAACTGACCCTTTGTGG  
 AGGTTCCCTCCCAGGGCTTGTTTTCCAAGAAAATATTT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_001017963

**Insert Size:**

3600 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](mailto: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:** There is 5 nucleotide difference between the OriGene clone and the NCBI reference ORF. OriGene considers these to be polymorphisms and to reflect the natural differences between individuals. These result in the substitution of 2 aa and deletion of 1 aa.

**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\\_001017963.1](#), [NP\\_001017963.1](#)

**RefSeq Size:** 3512 bp

**RefSeq ORF:** 2565 bp

**Locus ID:** 3320

**UniProt ID:** [P07900](#)

**Cytogenetics:** 14q32.31

**Protein Families:** Druggable Genome

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

**Gene Summary:**

The protein encoded by this gene is an inducible molecular chaperone that functions as a homodimer. The encoded protein aids in the proper folding of specific target proteins by use of an ATPase activity that is modulated by co-chaperones. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2012]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).