

Product datasheet for **MC220728**

Hsp90aa1 (BC046614) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hsp90aa1 (BC046614) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Hsp90aa1
Synonyms:	86kDa, 89kDa
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >BC046614
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCTGAGGAAACCCAGACCCAAGACCAACCAATGGAGGAGGAGGAGGTCGAGACCTTTGCCTTTTCAGG
 CAGAAATTGCCAGTTAATGTCCTTGATCATCAATACCTTCTACTCGAACAAAGAGATCTTTCTGAGGGA
 GCTCATCTCCAATTCATCGGACGCTCTGGATAAAATCCGTTACGAGAGCCTGACGGACCCAGTAAACTG
 GACTCGGGGAAGGAGCTGCACATCAATCTCATTCCCAGCAAACAGGACCGAACCTGACCATTGTGGATA
 CCGGGATTGGAATGACCAAGGCCGACTTGATCAATAACCTTGGCACCATTGCCAAGTCGGGCACCAAAGC
 CTTTCATGGAGGCTTTGCAGGCTGGTGCAGATATCTCTATGATTGGCCAGTTTGGTGTGGTTTTACTCT
 GCCTATTTGGTTGCTGAGAAAGTACTGTCATCACGAAGCATAACGACGATGAGCAGTATGCCTGGGAGT
 CCTCAGCTGGGGATCCTTCACAGTGAGGACTGACACAGGTGAACCAATGGTCTGGAACAAAGGTTAT
 CTTGCATCTGAAAGAAGACCAAACAGAGTATTTGGAGGAAAGGAGAATAAAGGAGATCGTGAAGAAGCAT
 TCTCAGTTCATTGGCTATCCATTACTCTTTTGGGAGAAGGAACGAGATAAGGAAGTCAGTGATGATG
 AGGCTGAAGAAAAGGAAGAGAAAAGGAAGAGAAAAGAAAAGAAAAGGAAGTCTGATGATAAACCTGA
 AATAGAAGATGTTGGCTCTGATGAAGAAGAGGAGGAGAAGAAGGATGGTGACAAGAAGAAAAGAAAGAA
 ATAAAGGAAAAGTACATTGATCAAGAAGAACTCAACAAAACAAAGCCGATTTGGACGAGAAAATCCTGATG
 ACATCACTAATGAGGAATATGGAGAGTTCTACAAGAGCTTAACTAACGATTGGGAAGAACACTTGGCAGT
 AAAGCATTTTTCTGTTGAAGGACAATTAGAATTCGGGGCCCTTCTTTTGTCCCAAGACGCGCTCCTTTT
 GATCTGTTTGAACAGAAAAGAAAAGAAACAACATCAAGTTGTATGTTTCGAGAGTTTTATCATGGATA
 ACTGTGAGGAATTAATCCCTGAGTATCTGAATTTTATTAGAGGGTGTAGTGATTCTGAGGATCCCTCT
 AAATATTTCCCGTGAAATGCTGCAACAAAGTAAAATTCTGAAAGTTATCAGAAAGAATTTGGTCAAGAAA
 TGCTTAGAACTATTTACTGAACTAGCAGAAGATAAAGAGAACTACAAAAGTTTTATGAGCAGTTCTCAA
 AAAATATAAAGCTTGGAAATTCACGAGGACTCTCAGAATCGGAAGAAGCTTTCAGAGCTGTTGCGGTA
 CACATCTGCTTCTGGGACGAGATGGTTTCTCTGAAGGACTACTGTACCAGAATGAAGGAAAACAGAA
 CACATCTATTTATCACAGGTGAGACCAAGGACCAGGTTGCTAACTCCGCTTTTGGAACGCTCTCCGAA
 AGCATGGCTTAGAAGTAATTTATGATTGAGCCATTGATGAGTATTGTGTGCAACAGCTGAAGGAATT
 TGAGGGCAAGACCTTGGTGTCTGTTACCAAGAAGGACTGGAACCTCCAGAAGATGAAGAGGAAAAGAA
 AAACAGGAAGAGAAAAGACAAAATTTGAGAACCTCTGCAAAATTTATGAAAGATATTTTGGAGAAGAGG
 TTGAAAAGGTGGTTGTGTCAAACCGACTGGTGACATCCCGTGCTGTATTGTACAAAGCAGATATGGGTG
 GACAGCAAACATGGAGAGAATCATGAAAGCTCAAGCCCTCAGAGCAAACTCAACAATGGGTTACATGGCA
 GCAAAAGAAACACCTGGAGATAAATCCTGATCACTCCATTATTGAAACCTTAAGGCAAAAGGCAGAGGCTG
 ACAAGAATGACAAATCTGTGAAGGATCTGGTCACTTGTGATGAAACTGCACTCCTATCTTCTGGCTT
 CAGTCTGGAAAGATCCCGAGCCCATGCTAACAGGATCTACAGGATGATCAAGCTTGGTCTAGGATTGAT
 GAGGATGATCCTACTGTGGATGACACCAGTGTGCTGTAAGTGAAGAAATGCCTCCCTGGAAAGGAGATG
 ACGACACATCACGCATGGAAGAAGTAGACTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGAT AAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: BC046614
Insert Size: 2202 bp
OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	<ol style="list-style-type: none">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:	BC046614 , AAH46614
RefSeq Size:	2800 bp
RefSeq ORF:	2201 bp
Locus ID:	15519
Cytogenetics:	12 60.75 cM
Gene Summary:	<p>Molecular chaperone that promotes the maturation, structural maintenance and proper regulation of specific target proteins involved for instance in cell cycle control and signal transduction. Undergoes a functional cycle that is linked to its ATPase activity which is essential for its chaperone activity. This cycle probably induces conformational changes in the client proteins, thereby causing their activation. Interacts dynamically with various co-chaperones that modulate its substrate recognition, ATPase cycle and chaperone function. Engages with a range of client protein classes via its interaction with various co-chaperone proteins or complexes, that act as adapters, simultaneously able to interact with the specific client and the central chaperone itself. Recruitment of ATP and co-chaperone followed by client protein forms a functional chaperone. After the completion of the chaperoning process, properly folded client protein and co-chaperone leave HSP90 in an ADP-bound partially open conformation and finally, ADP is released from HSP90 which acquires an open conformation for the next cycle. Apart from its chaperone activity, it also plays a role in the regulation of the transcription machinery. HSP90 and its co-chaperones modulate transcription at least at three different levels. In the first place, they alter the steady-state levels of certain transcription factors in response to various physiological cues. Second, they modulate the activity of certain epigenetic modifiers, such as histone deacetylases or DNA methyl transferases, and thereby respond to the change in the environment. Third, they participate in the eviction of histones from the promoter region of certain genes and thereby turn on gene expression. Binds bacterial lipopolysaccharide (LPS) and mediates LPS-induced inflammatory response, including TNF secretion by monocytes. Antagonizes STUB1-mediated inhibition of TGF-beta signaling via inhibition of STUB1-mediated SMAD3 ubiquitination and degradation.[UniProtKB/Swiss-Prot Function]</p>