

Product datasheet for MR210348

Hsp90aa1 (NM_010480) Mouse Tagged ORF Clone

Product data:

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Product Type:	Expression Plasmids
Product Name:	Hsp90aa1 (NM_010480) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hsp90aa1
Synonyms:	86kDa; 89kDa; AL024080; AL024147; hsp4; Hsp86-1; Hsp89; Hsp90; Hspca
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
vector.	
E. coli Selection:	Kanamycin (25 ug/mL)



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	Hsp90aa1 (NM_010480) Mouse Tagged ORF Clone – MR210348
ORF Nucleotide	>MR210348 ORF sequence
Sequence:	<pre>Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGCCTGAGGAAACCCAGACCCAAGACCAACCAATGGAGGAGGAGGAGGAGGACCTTTGCCTTTCAGG
	CAGAAATTGCCCAGTTAATGTCCTTGATCATCAATACCTTCTACTCGAACAAAGAGATCTTTCTGAGGGA
	GCTCATCTCCAATTCATCGGACGCTCTGGATAAAATCCGTTACGAGAGCCTGACGGACCCCAGTAAACTG
	GACTCGGGGAAGGAGCTGCACATCAATCTCATTCCCAGCAAACAGGACCGAACCCTGACCATTGTGGATA
	CCGGGATTGGAATGACCAAGGCCGACTTGATCAATAACCTTGGCACCATTGCCAAGTCGGGCACCAAAGC
	CTTCATGGAGGCTTTGCAGGCTGGTGCAGATATCTCTATGATTGGCCAGTTTGGTGTTGGTTTTACTCT
	GCCTATTTGGTTGCTGAGAAAGTGACTGTCATCACGAAGCATAACGACGATGAGCAGTATGCCTGGGAGT
	CCTCAGCTGGGGGATCCTTCACAGTGAGGACTGACACAGGTGAACCAATGGGTCGTGGAACAAAGGTTAT
	CTTGCATCTGAAAGAAGACCAAACAGAGTATTTGGAGGAAAGGAGAATAAAGGAGATCGTGAAGAAGCAT
	TCTCAGTTCATTGGCTATCCCATTACTCTCTTTGTGGAGAAGGAACGAGATAAGGAAGTCAGTGATGATG
	AGGCTGAAGAAAAGGAAGAGAAAGAGGAAGAGAAAAGAAAAAGAAGAAAA
	AATAGAAGATGTTGGCTCTGATGAAGAAGAGGAGGAGAAGAAGGATGGTGACAAGAAGAAAAAAGAAGAAG
	ATAAAGGAAAAGTACATTGATCAAGAAGAACTCAACAAAACAAAGCCGATTTGGACGAGAAATCCTGATG
	ACATCACTAATGAGGAATATGGAGAGTTCTACAAGAGCTTAACTAAC
	AAAGCATTTTTCTGTTGAAGGACAATTAGAATTCCGGGCCCTTCTTTTTGTCCCAAGACGCGCTCCTTTT
	GATCTGTTTGAAAACAGAAAGAAAAAGAACAACATCAAGTTGTATGTTCGCAGAGTTTTTATCATGGATA
	ACTGTGAGGAATTAATCCCTGAGTATCTGAATTTCATTAGAGGGGTAGTGGATTCTGAGGATCTCCCTCT
	AAATATTTCCCGTGAAATGCTGCAACAAAGTAAAATTCTGAAAGTTATCAGAAAGAA
	TGCTTAGAACTATTTACTGAACTAGCAGAAGATAAAGAGAACTACAAAAAGTTTTATGAGCAGTTCTCAA
	AAAATATAAAGCTTGGAATTCACGAGGACTCTCAGAATCGGAAGAAGCTTTCAGAGCTGTTGCGGTACTA
	CACATCTGCTTCTGGGGACGAGATGGTTTCTCTGAAGGACTACTGTACCAGAATGAAGGAAAACCAGAAG
	CACATCTATTTTATCACAGGTGAGACCAAGGACCAGGTTGCTAACTCCGCCTTTGTGGAACGTCTCCGAA
	AGCATGGCTTAGAAGTAATTTATATGATTGAGCCCATTGATGAGTATTGTGTGCAACAGCTGAAGGAATT
	TGAGGGCAAGACCTTGGTGTCTGTTACCAAAGAAGGACTGGAACTTCCAGAAGATGAAGAGGAAAAGAAG
	AAACAGGAAGAGAAAAAGACAAAATTTGAGAACCTCTGCAAAATTATGAAAGATATTTTGGAGAAGAAGG
	TTGAAAAGGTGGTTGTGTCAAACCGACTGGTGACATCCCCGTGCTGTATTGTCACAAGCACATATGGGTG
	GACAGCAAACATGGAGAGAATCATGAAAGCTCAAGCCCTCAGAGACAACTCAACAATGGGTTACATGGCA
	GCAAAGAAACACCTGGAGATAAATCCTGATCACTCCATTATTGAAACCTTAAGGCAAAAGGCAGAGGCTG
	ACAAGAATGACAAATCTGTGAAGGATCTGGTCATCTTGCTGTATGAAACTGCACTCCTATCTTCTGGCTT
	CAGTCTGGAAGATCCCCAGACCCATGCTAACAGGATCTACAGGATGATCAAGCTTGGTCTAGGTATTGAT
	GAGGATGATCCTACTGTGGATGACACCAGTGCTGCTGTAACTGAAGAAATGCCTCCCCTGGAAGGAGATG
	ACGACACATCACGCATGGAAGAAGTAGAC

ACGCGTACGCGGCCGCCCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

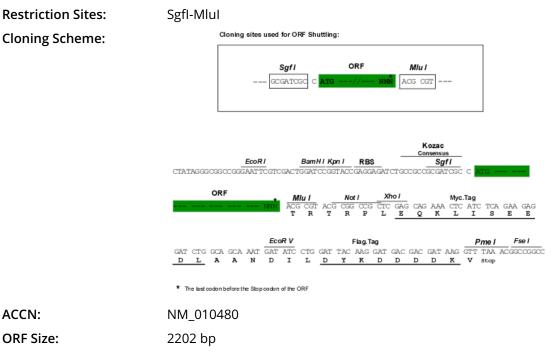
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Protein Sequence:

>MR210348 protein sequence Red=Cloning site Green=Tags(s)

MPEETQTQDQPMEEEEVETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNSSDALDKIRYESLTDPSKL DSGKELHINLIPSKQDRTLTIVDTGIGMTKADLINNLGTIAKSGTKAFMEALQAGADISMIGQFGVGFYS AYLVAEKVTVITKHNDDEQYAWESSAGGSFTVRTDTGEPMGRGTKVILHLKEDQTEYLEERRIKEIVKKH SQFIGYPITLFVEKERDKEVSDDEAEEKEEKEEKEEKESEDDKPEIEDVGSDEEEEEKKDGDKKKKKK IKEKYIDQEELNKTKPIWTRNPDDITNEEYGEFYKSLTNDWEEHLAVKHFSVEGQLEFRALLFVPRRAPF DLFENRKKKNNIKLYVRRVFIMDNCEELIPEYLNFIRGVVDSEDLPLNISREMLQQSKILKVIRKNLVKK CLELFTELAEDKENYKKFYEQFSKNIKLGIHEDSQNRKKLSELLRYYTSASGDEMVSLKDYCTRMKENQK HIYFITGETKDQVANSAFVERLRKHGLEVIYMIEPIDEYCVQQLKEFEGKTLVSVTKEGLELPEDEEEKK KQEEKKTKFENLCKIMKDILEKKVEKVVVSNRLVTSPCCIVTSTYGWTANMERIMKAQALRDNSTMGYMA AKKHLEINPDHSIIETLRQKAEADKNDKSVKDLVILLYETALLSSGFSLEDPQTHANRIYRMIKLGLGID EDDPTVDDTSAAVTEEMPPLEGDDDTSRMEEVD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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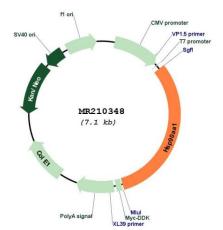
	lsp90aa1 (NM_010480) Mouse Tagged ORF Clone – MR210348
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to 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 <u>custsupport@origene.com</u> 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. <u>More info</u>
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 Met	 chod: 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:	<u>NM 010480.5, NP 034610.1</u>
RefSeq Size:	2850 bp
RefSeq ORF:	2202 bp
Locus ID:	15519
UniProt ID:	<u>P07901</u>
Cytogenetics:	12 60.75 cM
MW:	84.8 kDa

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Section 2010/101480 Constraints and Constraint

Molecular chaperone that promotes the maturation, structural maintenance and proper Gene Summary: 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 cochaperones 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 ubiguitination and degradation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210348

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