

Product datasheet for **MR210732**

Hsp90b1 (NM_011631) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hsp90b1 (NM_011631) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hsp90b1
Synonyms:	endoplasmin; ERp99; gp96; GRP94; TA-3; Targ2; Tra-1; Tra1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR210732 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGGGTCTGTGGGTGTTGGGCCTCTGCTGTGTCTGCTGACCTTCGGTTCGTGAGAGCTGATGATG
 AAGTCGACGTGGATGGCACAGTGAAGAGGACCTGGGTAAGAGCCGAGAAGGCTCAAGGACAGATGATGA
 AGTTGTGCAGAGAGAGGAAGAAGCTATTCAAGTTGGATGGGTTAAACGCATCACAGATAAGAGAAGTTAGA
 GAAAAATCTGAAAAGTTCGCCTTCCAAGCTGAAGTGAACAGGATGATGAACTTATCATCAATTCTTTGT
 ATAAAAATAAGAGATTTTCTGAGAGAACTGATTTCAAATGCTTCTGATGCTTTAGACAAGATAAGGCT
 CATCTCCCTAAGTGAATGCACTCGCTGGAAATGAGGAGTTAACGGTCAAGATTAAGTGTGACAAA
 GAGAAAACTGCTGCATGTCACAGACACGGGTGAGGAATGACTAGAGAGGAGTTGGTAAAAATCTCG
 GCACCATAGCAAATCTGGAACAAGCGAGTTTTAAACAAAATGACAGAAGCTCAAGAAGATGGTCAGTC
 AACCTCTGAAGTATTGGCCAGTTTGGTGTGCGTTTTTATTCTGCCTTCTTGTAGCAGATAAGGTCATT
 GTCACATCGAAACACAACATGATACCCAGCACATCTGGGAATCAGACTCCAATGAATTCTCTGTAATTG
 CTGACCCAAGAGGAAACACACTAGTCTGGAACAACAATTACTCTTGTCTTAAAAGAAGAAGCATCTGA
 TTACCTTGAATTGGACACAATAAAAATCTCGTCAGGAAGTACTCTCAGTTCATCAACTTTCCCCTCTAC
 GTGTGGAGTAGCAAGACAGAGACTGTTGAGGAGCCCTTGAAGAAGATGAAGCAGCAAAAGAAGAGAAAAG
 AAGAATCTGATGATGAAGCTGCAGTAGAGGAGGAAGAAGAAGAAAAGAAACAAAAACTAAGAAAGTTGA
 AAAAATGTGTGGGATTGGGAAGTTATGAATGATATCAACCAATATGGCAGAGACCATCCAAGAAGTA
 GAAGAAGACGAATACAAAGCTTTCTACAATCATTTTCAAAGGAAAGTATGACCCCATGGCTTATATCC
 ACTTCACTGCAGAAGGGGAGGTCACCTCAAGTCGATTTTGTGTTGACCCACATCTGCACCTCGAGGCTCT
 GTTTGATGAATATGGATCTAAGAAGAGTATTATATTAAGCTGTATGTACGCCCGGTATTATCACAGAT
 GACTTCCATGATATGATGCCAAATACCTTAATTTTGTCAAAGGTGTTGTGGATTCCGATGATCTCCCC
 TCAATGTTTCCCGTGAGACTCTTCAAGCAACATAAATTGCTCAAGGTGATTAGGAAGAAGCTTGTCCGAAA
 AACTCTGGACATGATCAAGAAGATTGCTGATGAGAAGTATAACGACACTTCTGGAAGGAGTTCCGCACG
 AATATCAAGCTTGGTGTGATTGAAGACCACTCAAATCGAACACGGCTTGTAACTTCTTAGGTTCCAGT
 CTTCTCACCATTCAACTGACATTACTAGTTTAGACCAGTATGTGGAAAGAATGAAGGAAAAACAGGACAA
 AATCTACTTCATGGCTGGTCAAGCAGAAAGGAGGCGGAATCTTCTCCATTTGTTGAGAGACTTCTGAAG
 AAGGGCTATGAAGTCATTTATCTCACAGAGCCTGTGGATGAATACTGCATTTCAGGCTCTCCCGAGTTTG
 ATGGGAAGAGGTTTCAGAATGTTGCCAAAGAAGGGGTGAAGTTTGTGATGAGAGTGAGAAAACATAAGAAAAG
 TCGGGAAGCAACAGAGAAGGAGTTTGAACCTCTGCTCAACTGGATGAAAGATAAGGCCCTCAAGGACAAG
 ATAGAAAAGGCTGTGGTGTGCGACGCGCTCACAGAGTCTCCCTGTGCTCTTGTGGCCAGTCAGTATGGAT
 GGTCTGGCAACATGGAGAGGATCATGAAGGCACAAGCATACCAGACGGCAAGGACATCTTACAAATTA
 CTATGCCAGTCAAAGAAAACGTTTCAAATCAATCCTAGACCCCACTGATCAGAGACATGTTGCGGCGG
 ATTAAGGAAGATGAAGATGACAAGACAGTATGGATCTTGTGTAGTTTTGTTTGAACGGCAACACTTC
 GGTCAGGATATCTTACCAGACACCAAGGCGTATGGAGATAGAATAGAAAGAATGCTTCGCCTCAGTTT
 AAACATTGACCCTGAAGCACAGGTGGAGGAAGAACCAGAAGAAGAGCCTGAAGACACCTCAGAAGAGGCA
 GAAGACTCAGAGCAGGATGAGGGAGAAGAGATGGATGCAGGGACAGAAGAAGAAGAGGAGGAAACAGAAA
 AGGAATCTACAGAGAAGGATGAATTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR210732 protein sequence
Red=Cloning site Green=Tags(s)

MRVLWVLGLCCVLLTFGFVRADDEVVDGTVEEDLGKSREGSRTDDEVVQREEEAIQLDGLNASQIRELR
EKSEKFAFQAEVNRMMKLIINSLYKNKEIFLRELISNASDALDKIRLISLTDENALAGNEELTVKIKCDK
EKNLLHVTDTGVGMTREELVKNLGTIAKSGTSEFLNKMTEAQEDGQSTSELIGQFGVGFYS AFLVADKVI
VTSKHNDTQHIWESDSNEFSVIADPRGNTLGRGTTITLVLKEEASDYLELDTIKNLVRKYSQFINFPIY
VWSSKTETVEEPL EDEAAKEEKEESDDEAAVEEEEEKPKTKKVEKTVWDWELMNDIKPIWQRPSKEV
EEDEYKAFYKFSKESDDPMAYIHFTAEGEVTFKSILFVPTSAPRGLFDEYGSKKSDYIKLYVRRVFITD
DFHDMMPKYLNFYKGVVSDDDLPLNVSRETLQQHKLLKVIRKCLRKTLDMIKKIADEKYNDTFWKEFGT
NIKLGVI EDHSNRTRLAKLLRFQSSHSTDITSLDQYVERMKEKQDKIYFMAGSSRKEAESSPFVERLLK
KGYEVIYLT E P V D E Y C I Q A L P E F D G K R F Q N V A K E G V K F D E S E K T K E S R E A T E K E F E P L L N W M K D K A L K D K
IEKAVVSQRLTESPCALVASQYGSNGMERIMKAQAYQTGKDISTNYYASQKKTFEINPRHPLIRDMLRR
IKEDDDKTVM DLAVVLFETATLRSGYLLPDTKAYGDRIERMLRSLNIDPEAQVEEEPEEEDTSEEA
EDSEQDEGEEMDAGTEEEEEETEKESTEKDEL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_011631

ORF Size: 2409 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_011631.1](#), [NP_035761.1](#)

RefSeq Size: 2759 bp

RefSeq ORF: 2409 bp

Locus ID: 22027

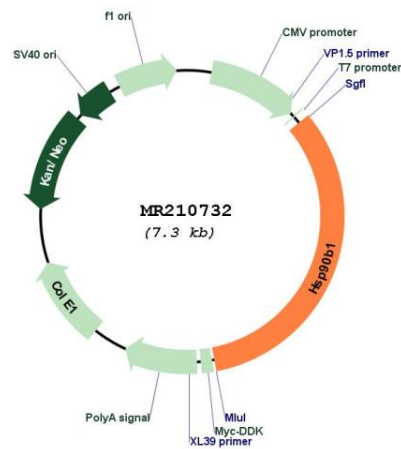
UniProt ID: [P08113](#)

Cytogenetics: 10 43.05 cM

MW: 92.5 kDa

Gene Summary: Molecular chaperone that functions in the processing and transport of secreted proteins (PubMed:20865800). When associated with CNPY3, required for proper folding of Toll-like receptors (PubMed:20865800). Functions in endoplasmic reticulum associated degradation (ERAD) (By similarity). Has ATPase activity (PubMed:20865800).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210732