

## Product datasheet for **MG210732**

### Hsp90b1 (NM\_011631) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hsp90b1 (NM_011631) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hsp90b1
Synonyms:	endoplasmin; ERp99; gp96; GRP94; TA-3; Targ2; Tra-1; Tra1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MG210732 representing NM\_011631  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGGGTCTGTGGGTGTTGGGCCTCTGCTGTGCTGCTGACCTTCGGTTCGTGAGAGCTGATGATG  
 AAGTCGACGTGGATGGCACAGTGAAGAGGACCTGGGTAAGAGCCGAGAAGGCTCAAGGACAGATGATGA  
 AGTTGTGCAGAGAGAGGAAGAAGCTATTCAAGTTGGATGGGTTAAACGCATCACAGATAAGAGAAGTTAGA  
 GAAAAATCTGAAAAGTTCGCTTCCAAGCTGAAGTGAACAGGATGATGAACTTATCATCAATTCTTTGT  
 ATAAAAATAAGAGATTTTCTGAGAGAACTGATTTCAAATGCTTCTGATGCTTTAGACAAGATAAGGCT  
 CATCTCCCTAACTGATGAAAATGCACTCGCTGGAAATGAGGAGTTAACGGTCAAGATTAAGTGTGACAAA  
 GAGAAAACTGCTGCATGTCACAGACACGGGTGAGGAATGACTAGAGAGGAGTTGGTAAAAATCTCG  
 GCACCATAGCCAAATCTGGAACAAGCGAGTTTTAAACAAAATGACAGAAGCTCAAGAAGATGGTCAGTC  
 AACCTCTGAAGTATTGGCCAGTTTGGTGTGCGTTTTTATTCTGCCTTCTGTAGCAGATAAAGGTCATT  
 GTCACATCGAAACACAACATGATACCCAGCACATCTGGGAATCAGACTCCAATGAATTCTCTGTAATTG  
 CTGACCCAAGAGGAAACACACTAGTCTGGAACAACAATTACTCTTGTCTTAAAAGAAGAAGCATCTGA  
 TTACCTTGAATTGGACACAATTAATAATCTCGTCAGGAAGTACTCTCAGTTCATCAACTTTCCCCTCTAC  
 GTGTGGAGTAGCAAGACAGAGACTGTTGAGGAGCCCTTGAAGAAGATGAAGCAGCAAAAGAAGAGAAAAG  
 AAGAATCTGATGATGAAGCTGCAGTAGAGGAGGAAGAAGAAGAAAAGAAACAAAAACTAAGAAAGTTGA  
 AAAAATGTGTGGGATTGGGAAGTTATGAATGATCAACCAATATGGCAGAGACCATCCAAGAAGTA  
 GAAGAAGACGAATACAAAGCTTTCTACAATCATTTTCAAAGGAAAGTATGACCCCATGGCTTATATCC  
 ACTTCACTGCAGAAGGGGAGGTCACCTTCAAGTCGATTTTGTGTTGACCCACATCTGCACCTCGAGGCTCT  
 GTTTGATGAATATGGATCTAAGAAGAGTATTATATTAAGCTGTATGTACGCCCGGTATTATCACAGAT  
 GACTTCCATGATATGATGCCAAATACCTTAATTTTGTCAAAGGTGTTGTGGATTCCGATGATCTCCCCC  
 TCAATGTTTCCCGTGAGACTCTTCAGCAACATAAATTGCTCAAGGTGATTAGGAAGAAGCTTGTCCGAAA  
 AACTCTGGACATGATCAAGAAGATTGCTGATGAGAAGTATAACGACACTTCTGGAAGGAGTTCCGCACG  
 AATATCAAGCTTGGTGTGATTGAAGACCACTCAAATCGAACACGGCTTGTAACTTCTTAGGTTCCAGT  
 CTTCTCACCATTCAACTGACATTACTAGTTTAGACCAGTATGTGGAAAGAATGAAGGAAAAACAGGACAA  
 AATCTACTTCATGGCTGGTCAAGCAGAAAGGAGGCGGAATCTTCTCCATTTGTTGAGAGACTTCTGAAG  
 AAGGGCTATGAAGTCATTTATCTCACAGAGCCTGTGGATGAATACTGCATTTCAGGCTCTCCCGAGTTTG  
 ATGGGAAGAGGTTTCAAGATGTTGCCAAAGAAGGGGTGAAGTTTGTGATGAGAGTGAGAAAACATAAGAAAG  
 TCGGGAAGCAACAGAGAAGGAGTTTGAACCTCTGCTCAACTGGATGAAAGATAAGGCCCTCAAGGACAAG  
 ATAGAAAAGGCTGTGGTGTGCGACGCGCTCACAGAGTCTCCCTGTGCTCTTGTGGCCAGTCAGTATGGAT  
 GGTCTGGCAACATGGAGAGGATCATGAAGGCACAAGCATACCAGACGGCAAGGACATCTTACAAATTA  
 CTATGCCAGTCAAAGAAAACGTTTCAAATCAATCCTAGACCCCACTGATCAGAGACATGTTGCGGCGG  
 ATTAAGGAAGATGAAGATGACAAGACAGTATGGATCTTGTGTAGTTTTGTTTGAACGGCAACACTTC  
 GGTCAGGATATCTTCTACCAGACACCAAGGCGTATGGAGATAGAATAGAAAGAATGCTTCGCCTCAGTTT  
 AAACATTGACCCTGAAGCACAGGTGGAGGAAGAACCAGAAGAAGAGCCTGAAGACACCTCAGAAGAGGCA  
 GAAGACTCAGAGCAGGATGAGGGAGAAGAGATGGATGCAGGGACAGAAGAAGAAGAGGAGGAAACAGAAA  
 AGGAATCTACAGAGAAGGATGAATTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG210732 representing NM\_011631  
Red=Cloning site Green=Tags(s)

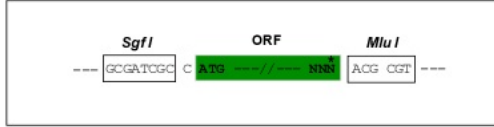
MRVLWVLGLCCVLLTFGFVRADDEVDVDGTVEEDLGKSREGSRTDDEVVQREEEAIQLDGLNASQIRELR  
EKSEKFAFQAEVNRMMKLIINSLYKNKEIFLRELISNASDALDKIRLISLTDENALAGNEELTVKIKCDK  
EKNLLHVTDTGVGMTREELVKNLGTIAKSGTSEFLNKMTEAQEDGQSTSELIGQFGVGFYS AFLVADKVI  
VTSKHNDTQHIWESDSNEFSVIADPRGNTLGRGTTITLVLKEEASDYLELDTIKNLVRKYSQFINFPIY  
VWSSKTETVEEPL EDEAAKEEKEESDDEAAVEEEEEKPKTKKVEKTVWDWELMNDIKPIWQRPSKEV  
EEDEYKAFYKFSKESDDPMAYIHFTAEGEVTFKSILFVPTSAPRGLFDEYGSKKSDYIKLYVRRVFITD  
DFHDMMPKYLNFYKGVVSDDDLPLNVSRETQQHKLLKVKIRKCLRKTLDMIKKIADEKYNDTFWKEFGT  
NIKLGVI EDHSNRTRLAKLLRFQSSHST DITSLDQYVERMKEKQDKIYFMAGSSRKEAESSPFVERLLK  
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 DLAVVLFETATLRSGYLLPDTKAYGDRIERMLRSLNIDPEAQVEEEPEEPEEPTSEEA  
EDSEQDEGEEMDAGTEEEEEETEKESTEKDEL

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



Kozac  
Consensus

*EcoRI*     *BamHI* *KpnI*     RBS     *SgfI*     *AscI*

CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGCCAGATCT

*HindIII*     *NheI*     *RsrII*     *MluI*     *NotI*     *XhoI*     GFP Tag

CAAGCTTAACTAGCTAGCGGACCG     ACG CGT     ACG CGG     CCG CTC GAG     ATG GAG AGC GAC --- --- ---

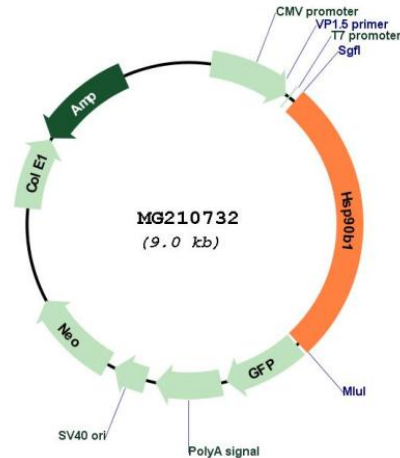
T     R     T     R     P     L     E     M     E     S     D     -     -     -

*PmeI*     *FseI*

--- --- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT

- - - E E R V Stop

**Plasmid Map:**


**ACCN:** NM\_011631

**ORF Size:** 2406 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

**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]