

Product datasheet for **RG218420**

HSP90AA1 (NM_001017963) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HSP90AA1 (NM_001017963) Human Tagged ORF Clone
Tag:	TurboGFP
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:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG218420 representing NM_001017963
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCCCGTGTTCTGGGCGGGACGGCTCCACCCCTCCTGGGCCCTCCCTTCGGGACAGGGACTGTCCCG
 CCCAGAGTGTGAATACCGCGCGACCGTCTGGATCCCCGCCAGGAAGCCCTCTGAAGCCTCCTCGCC
 GCCGTTTCTGAGAAGGGCACCTGTTAACTGGTACCAAGAAAAGGCCCAAGTGTCTCTGGCATCTGTTG
 GTGTCTGGATCCACCACTCTACTCTGTCTCTGGAAACAGCCCTTCCACGTCTCTGCATTCCCTGTCACTG
 CGTCACTGGCCTTCAGACAGAGCCAAGGTGCAGGGCAACACCTCTACAAGGATCTGCAGCCATTTATATT
 GCTTAGGCTACTGATGCCTGAGGAAACCCAGACCAAGACCAACCGATGGAGGAGGAGGAGTTGAGACG
 TTCGCCTTTCAGGCAGAAATTGCCAGTTGATGTCATTGATCATCAATACTTTCTACTCGAACAAAGAGA
 TCTTTCTGAGAGAGCTCATTCAAATTCATCAGATGCATTGGACAAAATCCGGTATGAAAGCTTGACAGA
 TCCAGTAAATTAGACTCTGGGAAAGAGCTGCATATTAACCTTATACCGAACAAACAAGATCGAAGTCTC
 ACTATTGTGGATACTGGAATTGGAATGACCAAGGCTGACTTGATCAATAACCTTGGTACTATCGCCAAGT
 CTGGGACCAAAGCGTTCATGGAAGCTTTCAGGCTGGTGAGATATCTCTATGATTGGCCAGTTCGGTGT
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 GGTCAAAAATGCTTAGAACTCTTACTGAACTGGCGGAAGATAAAGAGAACTACAAGAAATTTCTATGAG
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 CTCTGGCTTCAGTCTGGAAGATCCCCAGACACATGCTAACAGGATCTACAGGATGATCAAACCTGGTCT
 GGGTATTGATGAAGATGACCCTACTGCTGATGATACCAGTCTGCTGTAAGTGAAGAAATGCCACCCCTT
 GAAGGAGATGACGACACATCACGCATGGAAGAAGTAGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG218420 representing NM_001017963
 Red=Cloning site Green=Tags(s)

MPPCSGGDSTPPGSLRDRDCPAQSAEYPRDLDRPGSPSEASSPPFLRRAPVNWYQEKAQVFLWHLL
 VSGSTLLCLWKQPFHVSAFPVTASLAFRQSQGAGQHL YKDLQPFILLRLLMPEETQTQDQPMEEEEVET
 FAFQAEIAQLMSLIINTFYSNKEIFLRELI SNSSDALDKIRYESLTDPSKLDSGKELHINLIPNKQDRTL
 TIVDTGIGMTKADLINNLTIAKSGTKAFMEALQAGADISMIGQFVGVFYSAYLVAEKVTITKHNDDEQ
 YAWESSAGGSFTVRTDTGEMGRGTVILHLKEDQTEYLEERRIKEIVKKHSQFIGYPITL FVEKERDKE
 VSDDEAEKEDKEEEEKEEEEKEDKPEIEDVGSDEEEKKDGDKKKKKKIKEKYIDQEELNKTPIWTR
 NPDDITNEEYGEFYKSLTNDWEDHLAVKHFSVEGQLEFRALLFVPRRAPFDL FENRKKNNIKLYVRRVF
 IMDNCEELIPEYLNIRGVVDEDLPLNISREMLQQSKILKVIKKNLVKKCLELFTELAEDKENYKFFYE
 QFSKNIKLGIHEDSQNRKLSSELLRYTASGDEMVS LKDYCTRMKENQKHIYYITGETKDQVANSAFVE
 RLRKHGLEVIYMIIEPIDEYCVQQLKEFEGKTLVSVTKEGLELPEDEEEKKQEEKTKFENLCKIMKDIL
 EKKVEKVVVSNRLVTSPCCIVTSTYGTANMERIMKAQALRDNSTMGYMAAKKHLEINPDHSIIETLRQK
 AEADKNDKSVKDLVILLYETALLSSGFSLEDPQTHANRIYRMIKLGLGIDEDDPTADDTSAAVTEEMPLL
 EGDDDTSRMEEVD

TRTRPLE - GFP Tag - V

Restriction Sites:

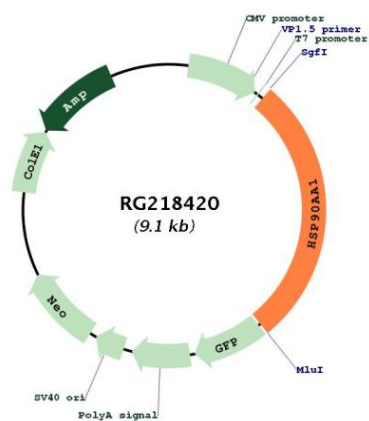
Sgfl-MluI

Cloning Scheme:



ACCN:	NM_001017963
ORF Size:	2559 bp
OTI Disclaimer:	<p>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 or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	<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:	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]

Product images:



Circular map for RG218420