

Product datasheet for **RC209563**

GRP94 (HSP90B1) (NM_003299) Human Tagged ORF Clone

Product data:

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|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | GRP94 (HSP90B1) (NM_003299) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | GRP94 |
| Synonyms: | ECGP; GP96; GRP94; HEL-S-125m; HEL35; TRA1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide
Sequence:

>RC209563 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGGGCCCTGTGGGTGCTGGGCTCTGCTGCGTCTGCTGACCTTCGGGTCGGTCAGAGCTGACGATG
AAGTTGATGTGGATGGTACAGTAGAAGAGGATCTGGGTAAGTAGAGAAGGATCAAGGACGGATGATGA
AGTAGTACAGAGAGAGGAAGAAGCTATTCAAGTTGGATGGATTAATGCATCACAAATAAGAGAAGCTTAGA
GAGAAGTCGAAAAAGTTTGCCTTCAAGCCGAAGTTAACAGAATGATGAACTTATCATCAATTCATTGT
ATAAAAAAAGAGATTTTCTGAGAGAACTGATTTCAAATGCTTCTGATGCTTTAGATAAGATAAGGCT
AATATCACTGACTGATGAAAATGCTCTTCTGGAAATGAGGAACTAACAGTCAAATTAAGTGTGATAAG
GAGAAGAAGCTGCTGCATGTCACAGACACCGGTGATGGAATGACCAGAGAAGAGTTGGTTAAAACTTG
GTACCATAGCAAATCTGGGACAAGCGAGTTTTAAACAAAATGACTGAAGCACAGGAAGATGGCCAGTC
AACTTCTGAATTGATTGGCCAGTTTGGTGTGCGTTTCTATTCCGCCTTCTTGTAGCAGATAAGGTTATT
GTCACTTCAAACACAACACGATACCCAGCACATCTGGGAGTCTGACTCCAATGAATTTCTGTAAATTG
CTGACCCAAGAGGAAACACTCTAGGACGGGAAACGACAATTACCTTGTCTTAAAAGAAGAAGCATCTGA
TTACCTTGAATTGGATACAATTAATAATCTCGTCAAAAAATTCACAGTTCATAAACTTTCCTATTTAT
GTATGGAGCAGCAAGACTGAAACTGTTGAGGAGCCCATGGAGGAAGAAGAAGCAGCCAAAGAAGAGAAA
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AAAACTGTCTGGGACTGGGAACCTATGAATGATCAACCAATATGGCAGAGACCATCAAAGAAGTA
GAAGAAGATGAATACAAAGCTTTCTACAATCATTTTCAAAGGAAAGTATGACCCCATGGCTTATATTC
ACTTTACTGCTGAAGGGGAAGTTACCTTCAAATCAATTTTATTTGTACCCACATCTGCTCCACGGTCT
GTTTGACGAATATGGATCTAAAAAGAGCGATTACATTAAGCTCTATGTGCGCCGTGATTATCACAGAC
GACTTCCATGATATGATGCCTAAATACCTCAATTTTGTCAAGGGTGTGGTGGACTCAGATGATCTCCCT
TGAATGTTTCCCGCAGACTCTCAGCAACATAAACTGCTTAAGGTGATTAGGAAGAAGCTTGTTCGTAA
AACGCTGGACATGATCAAGAAGATTGCTGATGATAAATACAATGATACTTTTGGAAAGAATTTGGTACC
AACATCAAGCTTGGTGTGATTGAAGACCACTCGAATCGAACACGCTTGTCTAACTTCTTAGGTTCCAGT
CTTCTCATCACTCAACTGACATTACTAGCCTAGACCAGTATGTGGAAAGAATGAAGGAAAAACAAGACAA
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AAGGGCTATGAAGTTATTTACCTCACAGAACCTGTGGATGAATACTGTATTCAGGCCCTTCCGAATTTG
ATGGGAAGAGGTTCCAGAATGTTGCCAAGGAAGGAGTGAAGTTCCGATGAAAGTGAGAAAACCTAAGGAGAG
TCGTGAAGCAGTTGAGAAAGAATTTGAGCCTCTGCTGAATTGGATGAAAGATAAAGCCCTTAAGGACAAG
ATTGAAAAGGCTGTGGTGTCTCAGCGCCTGACAGAATCTCCGTGTGCTTTGGTGGCCAGCCAGTACGGAT
GGTCTGGCAACATGGAGAGAATCATGAAAGCACAAAGCGTACCAAACGGGCAAGGACATCTTACAAATTA
CTATGCGAGTCAGAAGAAAACATTTGAAATTAATCCAGACACCCGCTGATCAGAGACATGCTTCGACGA
ATTAAGGAAGATGAAGATGATAAAACAGTTTTGGATCTTGTGTTGTTTGTAAACAGCAACGCTTC
GGTCAGGGTATCTTTACCAGACACTAAAGCATATGGAGATAGAATAGAAAGAATGCTTCGCCTCAGTTT
GAACATTGACCCTGATGCAAAGGTGGAAGAAGAGCCTGAAGAAGAACCTGAAGAGACAGCAGAAGACACA
ACAGAAGACACAGAGCAAGACGAAGATGAAGAAATGGATGTGGGAACAGATGAAGAAGAAGAAACAGCAA
AGGAATCTACAGCTGAAAAGATGAATTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC209563 protein sequence
Red=Cloning site Green=Tags(s)

MRALWVLGLCCVLLTFGSVRADDEVDVDTVEEDL GKSREGSRTDDEVVQREEEAIQLDGLNASQIRELR
EKSEKFAFQAEVNRMMKLIINSLYKNKEIFLRELISNASDALDKIRLISLTDENALSGNEELTVKIKCDK
EKNLLHVTDTGVGMTREELVKNLGTIAKSGTSEFLNKMTEAQEDGQSTSELIGQFGVGFYSAFLVADKVI
VTSKHNDTQHIWESDSNEFSVIADPRGNTLGRGTTITLVLKEEASDYLELDTIKNLVKKYSQFINFPIY
VWSSKTETVEEPMEEEEAAKEEKEESDDEAAVEEEEEKKPKTKKVEKTVWDWELMNDIKPIWQRPSKEV
EEDEYKAFYKFSKESDDPMAYIHFTAEGEVTFKSILFVPTSAPRGLFDEYGSKKSDYIKLYVRRVFITD
DFHDMMPKYLNFYKGVVSDDLPLNVSRETLQQHKLLKVIRKCLRKTLDMIKKIADDKYNDTFWKEFGT
NIKLVGVIEDHSNRRLAKLLRFQSSHPTDITSLDQYVERMKEKQDKIYFMAGSSRKEAESSPFVERLLK
KGYEVIYLTPEVDEYCIQALPEFDGKRFQNVAKEGVKFDSEKTKESREAVEKEFEPELLNWMKDKALKDK
IEKAVVSQRLTESPCALVASQYGSNEMERIMKAQAYQTGKDISTNYYASQKKTFEINPRHPLIRDMLRR
IKEDDDKTVLDLAVVLFETATLRSGYLLPDTKAYGDRIERMLRLSLNIDPDAKVEEEPEEPEETAEDT
TEDTEQDEDEEMDVGTDEEEETAKESTAEKDEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6230_d04.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



ACCN: NM_003299

ORF Size: 2409 bp

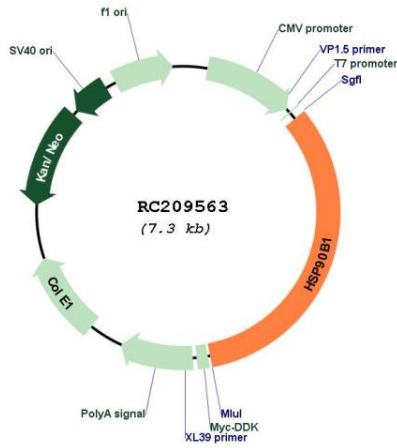
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

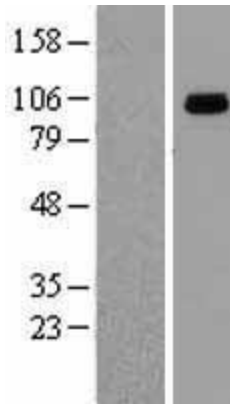
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

| | |
|-------------------------------|---|
| Reconstitution Method: | <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. |
| Note: | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required. |
| RefSeq: | NM_003299.3 |
| RefSeq Size: | 2879 bp |
| RefSeq ORF: | 2412 bp |
| Locus ID: | 7184 |
| UniProt ID: | P14625 |
| Cytogenetics: | 12q23.3 |
| Domains: | HSP90, HATPase_c |
| Protein Families: | Druggable Genome |
| Protein Pathways: | NOD-like receptor signaling pathway, Pathways in cancer, Prostate cancer |
| MW: | 92.5 kDa |
| Gene Summary: | This gene encodes a member of a family of adenosine triphosphate(ATP)-metabolizing molecular chaperones with roles in stabilizing and folding other proteins. The encoded protein is localized to melanosomes and the endoplasmic reticulum. Expression of this protein is associated with a variety of pathogenic states, including tumor formation. There is a microRNA gene located within the 5' exon of this gene. There are pseudogenes for this gene on chromosomes 1 and 15. [provided by RefSeq, Aug 2012] |

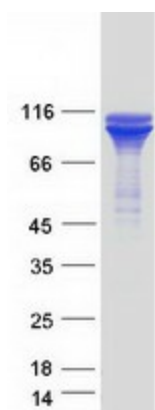
Product images:



Circular map for RC209563



Western blot validation of overexpression lysate (Cat# [LY418780]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209563 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HSP90B1 protein (Cat# [TP309563]). The protein was produced from HEK293T cells transfected with HSP90B1 cDNA clone (Cat# RC209563) using MegaTran 2.0 (Cat# [TT210002]).