

Product datasheet for **SC324106**

GRP94 (HSP90B1) (NM_003299) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GRP94 (HSP90B1) (NM_003299) Human Untagged Clone
Tag:	Tag Free
Symbol:	GRP94
Synonyms:	ECGP; GP96; GRP94; HEL-S-125m; HEL35; TRA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_003299.1
 CCGCGCGGCTGGAGGTGTGAGGATCCGAACCCAGGGGTGGGGGTGGAGGCGGCTCTGC
 GATCGAAGGGGACTTGAGACTCACCGCCGCACGCCATGAGGGCCTGTGGGTGCTGGGC
 CTCTGCTGCGTCTGTGACCTTCGGGTCGGTCAGAGCTGACGATGAAGTTGATGTGGAT
 GGTACAGTAGAAGAGGATCTGGGTAAGTAGAGAAGGATCAAGGACGGATGATGAAGTA
 GTACAGAGAGAGGAAGAAGCTATTCAAGTTGGATGGATTAATGCATCACAAATAAGAGAA
 CTTAGAGAGAAGTCGGAAAAGTTTGCCTTCCAAGCCGAAGTTAACAGAATGATGAAACT
 ATCATCAATTCATTGTATAAAAATAAGAGATTTTCTGAGAGAAGTATTTCAAATGCT
 TCTGATGCTTTAGATAAGATAAGGCTAATATCACTGACTGATGAAAATGCTCTTTCTGGA
 AATGAGGAACTAACAGTCAAAATTAAGTGTGATAAGGAGAAGAACCTGCTGCATGTCACA
 GACACCGGTGTAGGAATGACCAGAGAAGAGTTGGTTAAAAACCTTGGTACCATAGCCAAA
 TCTGGGACAAGCGAGTTTTTAAACAAAATGACTGAAGCACAGGAAGATGGCCAGTCAACT
 TCTGAATTGATTGGCCAGTTTGGTGTGGTTTCTATTCCGCTTCTTGTAGCAGATAAG
 GTTATTGTCACTTCAAAACACAACAACGATACCCAGCACATCTGGGAGTCTGACTCCAAT
 GAATTTTCTGTAATTGCTGACCCAAGAGGAAACTCTAGGACGGGGAACGACAATTACC
 CTTGCTTAAAAGAAGAAGCATCTGATTACCTGAATTGGATACAATTAATAATCTCGTC
 AAAAAATATTCACAGTTCATAAACTTTCCTATTATGTATGGAGCAGCAAGACTGAAACT
 GTTGAGGAGCCCATGGAGGAAGAAGAAGCAGCCAAAGAAGAGAAAAGAAGAATCTGATGAT
 GAAGCTGCAGTAGAGGAAGAAGAAGAAAAGAAACCAAGACTAAAAAAGTTGAAAAA
 ACTGTCTGGGACTGGAACTTATGAATGATATCAAACCAATATGGCAGAGACCATCAAAA
 GAAGTAGAAGAAGATGAATACAAAGCTTCTACAAATCATTTTCAAAGGAAAAGTGATGAC
 CCCATGGCTTATATTCACCTTACTGTGCTGAAGGGGAAGTTACCTTCAAATCAATTTTATTT
 GTACCCACATCTGCTCCACGTGGTCTGTTTGACGAATATGGATCTAAAAGAGCGATTAC
 ATTAAGCTCTATGTGCGCCGTGATTCATCACAGACGACTTCCATGATATGATGCCTAAA
 TACCTCAATTTTGTCAAGGGTGTGGTGGACTCAGATGATCTCCCTTGAATGTTTCCCGC
 GAGACTCTTCAGCAACATAAACTGCTTAAGGTGATTAGGAAGAAGCTTGTTCGTAACG
 CTGGACATGATCAAGAAGATTGCTGATGATAAATAAATGATACTTTTTGGAAAGAAATTT
 GGTACCAACATCAAGCTTGGTGTGATTGAAGACCACTCGAATCGAACACGTCTTGCTAAA
 CTTCTTAGGTTCCAGTCTTCTCATCATCCAACACTGACATTACTAGCCTAGACCAGTATGTG
 GAAAGAATGAAGGAAAAACAAGACAAAATCTACTTCATGGCTGGGTCAGCAGAAAAGAG
 GCTGAATCTTCTCATTGTTGAGCGACTTCTGAAAAGGGCTATGAAGTTATTTACCTC
 ACAGAACCTGTGGATGAATACTGTATTCAGGCCCTTCCCGAATTTGATGGGAAGAGGTT
 CAGAATGTTGCCAAGGAAGGAGTGAAGTTCGATGAAAAGTGAAGAACTAAGGAGAGTCGT
 GAAGCAGTTGAGAAAGAAATTTGAGCCTCTGCTGAATTGGATGAAAGATAAAGCCCTTAAG
 GACAAGATTGAAAAGGCTGTGGTGTCTCAGCGCCTGACAGAATCTCCGTGTGCTTTGGTG
 GCCAGCCAGTACGGATGGTCTGGCAACATGGAGAGAATCATGAAAGCACAAGCGTACCAA
 ACGGGCAAGGACATCTCTACAAATTAATGCGAGTCAGAAGAAAACATTTGAAATTAAT
 CCCAGACACCCGCTGATCAGAGACATGCTTCGACGAATTAAGGAAGATGAAGATGATAAA
 ACAGTTTTGGATCTTGTGTGGTTTTGTTTGAACAGCAACGCTTCGGTCAGGGTATCTT
 TTACCAGACACTAAAGCATATGGAGATAGAATAGAAAGAATGCTTCGCCTCAGTTTGAAC
 ATTGACCCTGATGCAAAGGTGGAAGAAGAGCCTGAAGAAGAACCTGAAGAGACAGCAGAA
 GACACAACAGAAGACACAGAGCAAGACGAAGATGAAGAAATGGATGTGGGAACAGATGAA
 GAAGAAGAAACAGCAAAGGAATCTACAGCTGAAAAAGATGAATTGTAAATATACTCTCA
 CCATTTGGATCCTGTGTGGAGAGGGAATGTGAAATTTACATCATTTCTTTTTGGGAGAGA
 CTTGTTTTGGATGCCCTAATCCCTTCTCCCTGCACTGAAAATGTGGGATTATGGG
 TCACAGGAAAAAGTGGGTTTTTGTGTTGAATTTTTTTAACATTCTCATGAATGTAAT
 TTGTAATTTAACTGACTATTCTGTATGATAAATCTTGTGATGTATAAAAA
 AAAA

Restriction Sites: ECoRI-NOT
ACCN: NM_003299

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_003299.1</u> , <u>NP_003290.1</u>
RefSeq Size:	2780 bp
RefSeq ORF:	2412 bp
Locus ID:	7184
UniProt ID:	<u>P14625</u>
Cytogenetics:	12q23.3
Domains:	HSP90, HATPase_c
Protein Families:	Druggable Genome
Protein Pathways:	NOD-like receptor signaling pathway, Pathways in cancer, Prostate cancer
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]