

Product datasheet for **RG219895**

RSK1 p90 (RPS6KA1) (NM_001006665) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RSK1 p90 (RPS6KA1) (NM_001006665) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RSK1 p90
Synonyms:	HU-1; MAPKAPK1; MAPKAPK1A; p90Rsk; RSK; RSK1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG219895 representing NM_001006665
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGCAGGATCCCAAGCCGCCCGTCTGCGGCTCTGGCCCTGATCCCCTGGCTTCCCAGGAAGCAGC
 GGCCAGGATCAGCCAGACCTCTCTGCCTGTCCCTGGCCCTGGCTCTGGCCCCAGCGGGACTCGGATGA
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 GACCAAGATGGAGAGACATCCTGGCTGATGTAATCACCCATTCGTGGTGAAGCTGCACTATGCCTTC
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 TGGGGTGTGATGTTGAGATGCTGACGGGCTCCCTGCCCTTCCAGGGGAAGGACCGGAAGGAGACCATG
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ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG219895 representing NM_001006665
Red=Cloning site Green=Tags(s)

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MEQDPKPPRLRLWALIPWLPRKQRPRIQSLSLPVPGSGPQRDSDEGLKEISITHHVKAGSEKADPSH
FELLKVLGQGSFGKVFVLRKVRPDSGHLAYAMKVLKKATLKVDRVVRTKMERDILADVNHFPVVKLHYAF
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TLILKAKLGMPQFLSTEAQSLLRALFKRNPANRLGSGPDGAEI KRHV FYSTIDWNKLYRREIKPPFKPA
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LVFSDGYVVKETIGVGSYSECKRCVHKATNMEYAVKVIDKSKRDPSEEIEILLRYGQHPNIITLKDVIYDD
GKHVYLVTELMRGGELLDKILRQKFFSEREASFVLTHTIGKTVEYLHSQGVVHRDLKPSNIIYVDESGNPE
CLRICDFGFAKQLRAENGLLMTPCYTANFVAPEVLKRQGYDEGCDIWSLGILLYTMLAGYTPFANGPSDT
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QLVKGAMAATYSALNSSKPTQLKPIESSILAQRVRKLPSTTL
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001006665

ORF Size: 2232 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_001006665.1](#), [NP_001006666.1](#)

RefSeq Size: 3112 bp

RefSeq ORF: 2235 bp

Locus ID: 6195

UniProt ID: [Q15418](#)

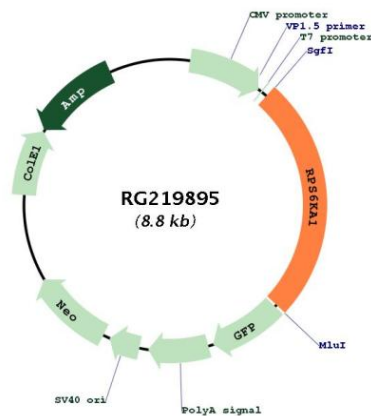
Cytogenetics: 1p36.11

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Long-term potentiation, MAPK signaling pathway, mTOR signaling pathway, Neurotrophin signaling pathway, Oocyte meiosis, Progesterone-mediated oocyte maturation

Gene Summary: This gene encodes a member of the RSK (ribosomal S6 kinase) family of serine/threonine kinases. This kinase contains 2 nonidentical kinase catalytic domains and phosphorylates various substrates, including members of the mitogen-activated kinase (MAPK) signalling pathway. The activity of this protein has been implicated in controlling cell growth and differentiation. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG219895