

Product datasheet for **RG213592**

RSK3 (RPS6KA2) (NM_001006932) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RSK3 (RPS6KA2) (NM_001006932) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RSK3
Synonyms:	HU-2; MAPKAPK1C; p90-RSK3; p90RSK2; pp90RSK3; RSK; RSK3; S6K-alpha; S6K-alpha2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG213592 representing NM_001006932
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCAATCGCACAGTTGCTGGAACATGGAAAAAGATCGAGGTGGAGCCTATGGAAATAGAGACCACAG
 AGGAGGATCTCAACCTGGATGTGGAGCCACCACAGAAGACACTGCAGAAGAAGAAGGCGTCGTGAA
 GGAGATAGACATCAGCCATCATGTGAAGGAGGGCTTTGAGAAGGCAGATCCTTCCAGTTTGAGCTGCTG
 AAGTTTTAGGACAAGGATCCTATGGAAAGGTGTTCTGGTGAGGAAGGTGAAGGGTCCGACGCTGGC
 AGCTCTACGCCATGAAGGTCCTAAGAAAGCCACCCTAAAAGTTCGGGACCGAGTGAGATCGAAGATGGA
 GAGAGACATCTTGGCAGAAGTGAATCACCCCTTATTGTGAAGCTTATTATGCCTTTCAGACGGAAGGA
 AAGCTCTACCTGATCCTGGACTTCTGCGGGGAGGGGACCTTTCACCCGGCTCTCAAAGAGGTATGT
 TCACGGAGGAGGATGTCAAGTTCTACCTGGCTGAGCTGGCCTTGCTTTAGACCATCTCCACAGCCTGGG
 GATCATCTACAGAGATCTGAAGCCTGAGAACATCCTCCTGGATGAAGAGGGGCACATTAAGATCACAGAT
 TTGCGCCTGAGTAAGGAGGCCATTGACCACGACAAGAGAGCGTACTCCTTCTGCGGGACGATCGAGTACA
 TGGCGCCCAGGTTGGTAACCGCGAGGACACACGCAGAGTGCCGACTGGTGGTCTTCCGCGTGCTCAT
 GTTTGAGATGCTCACGGGTCCCTGCCGTTCCAGGGGAAGGACAGGAAGGAGACCATGGCTCTATCCTC
 AAAGCCAAGCTGGGGATGCCGAGTTTCTCAGTGGGGAGGCACAGAGTTTGTGCGAGCTCTTTCAAAC
 GGAACCCCTGCAACCGGCTGGGTGCTGGCATTGACGGAGTGGAGGAAATTAAGCGCCATCCCTTCTTTGT
 GACCATAGACTGGAACACGCTGTACCGAAGGAGATCAAGCCACCGTTCAAACAGCAGTGGGCAGGCCT
 GAGGACACCTTCCACTTTGACCCGAGTTCACAGCGGACGCCACAGACTCTCCTGCGTCCCCCGA
 GTGCAAAACGCTCATCACCTGTTTAGAGGATTAGCTTTGTGGCCTCAAGCCTGATCCAGGACCCCA
 GCAAGATCTGCACAAAGTCCAGTTACCCAATCGTGCAGCAGTTACACGGGAACAACATCCACTTCACC
 GATGGCTACGAGATCAAGGAGGACATCGGGTGGGCTCCTACTCAGTGTGCAAGCGATGTGTGCATAAAG
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 CCTCCTGCGGTACGGCCAGCACCCGAACATCATCACCTCAAGGATGTCTATGATGATGGCAAGTTTGTG
 TACCTGGTAATGGAGCTGATGCGTGGTGGGAGCTCCTGGACCGCATCCTCCGGCAGAGATACTTCTCGG
 AGCGGAAGCCAGTGACGTCCTGTGCACCATCACCAAGACCATGGACTACCTCCATTCAGGGGGTTGT
 TCATCGAGACCTGAAGCCGAGTAACATCCTGTACAGGGATGAGTCGGGGAGCCAGAATCCATCCGAGTC
 TGGCACTTCGGCTTTGCCAAGCAGCTGCGCGGGGAACGGGCTGCTCATGACACCCTGCTACACGGCCA
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 CCTGTTGTACACCATGCTGGCAGGATTTACCCCTTTTGCAAATGGGCCAGACGATACCCCTGAGGAGATT
 CTGGCGCGGATCGGCAGTGGGAAGTATGCCCTTTCTGGGGGAAACTGGGACTCGATATCTGACGCAGCTA
 AAGACGTCGTGTCCAAGATGCTCCACGTGGACCCTCATCAGCGCCTGACGGCGATGCAAGTGTCAAACA
 CCCGTGGGTGGTCAACAGAGAGTACCTGTCCCCAAACCAGCTCAGCCGACAGGACGTGCACCTGGTGAAG
 GGCGCGATGGCCGCCACTACTTTGCTCTAAACAGAACACCTCAGGCCCCGGCTGGAGCCCGTGTGT
 CATCCAACCTGGCTCAGCGCAGAGGCATGAAGAGACTCACGTCCACGCGGCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG213592 representing NM_001006932
 Red=Cloning site Green=Tags(s)

MPIAQLLELWKKIEVEPMEIETTEEDLNLDVEPTTEDTAEEEEGVVKEIDISHHVKEGFEKADPSQFELL
 KVLGQGSYGKVFVLRKVKGSDAGQLYAMKVLKKATLKVVRDRVRSKMERDILAEVNHPIVKLHYAFQTEG
 KLYLILDFLRGGDLFTRL SKEVMFTEEDVKFYLAELALALDHLHSLGIIYRDLKPENILLDEEGHIKITD
 FGLSKEAIDHDKRAYSFCGTIEYMAPEVNNRRGHTQSADWWSFGVLMFEMLTGSLPFQ GKDRKETMALIL
 KAKLGMPQFLSGEAQSLLRALFKRNPCNRLGAGIDGVVEIKRHPFFVTIDWNTLYRKEIKPPFKPAVGRP
 EDTFHFDPFTARTPTDSPGVPPSANAHHLFRGFSFVASSLIQEPSQQDLHKVPVHPVIVQQLHGNNIHFT
 DGYEIKEDIGVGSYSVCKRCVHKATDTEYAVKIIDKSKRDPSEEIEILLRYGQHPNIITLKD VYDDGKFKV
 YLMELMRGGELLDRI LRQRYFSEREASDVLCTITKMDYLHSQGVVHRDLKPSNILYRDESGSPESIRV
 CDFGFAKQLRAGNLLMTPCYTANFVAPEVLKRQGYDAACDIWSLGILLYTM LAGFTPFANGPDDTPEEI
 LARIGSGKYALSGGNWDSISDAAKDVVSKMLHVDPHQRLTAMQVLKHPWVVNREYLSPNQLSRQDVHLVK
 GAMAATYFALNRTPOAPRLEPVLSSNLAQRRGMKRLTSTRL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001006932

ORF Size: 2223 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_001006932.3](#)

RefSeq Size: 5735 bp

RefSeq ORF: 2226 bp

Locus ID: 6196

UniProt ID: [Q15349](#)

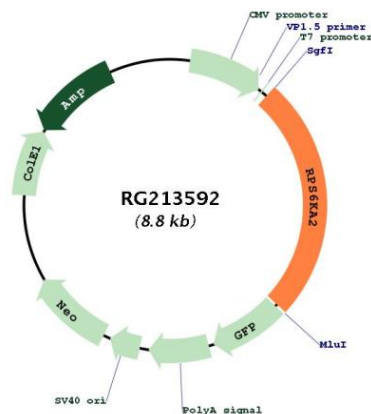
Cytogenetics: 6q27

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 two non-identical 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. Alternative splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jan 2016]

Product images:



Circular map for RG213592