

Product datasheet for **RC213592**

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: | Myc-DDK |
| Symbol: | RSK3 |
| Synonyms: | HU-2; MAPKAPK1C; p90-RSK3; p90RSK2; pp90RSK3; RSK; RSK3; S6K-alpha; S6K-alpha2 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



[View online »](#)

ORF Nucleotide
Sequence:

>RC213592 representing NM_001006932
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCAATCGCACAGTTGCTGGAACATGGAAAAAGATCGAGGTGGAGCCTATGGAAATAGAGACCACAG
AGGAGGATCTCAACCTGGATGTGGAGCCACCACAGAAGACACTGCAGAAGAAGAAGGCGTCGTGAA
GGAGATAGACATCAGCCATCATGTGAAGGAGGGCTTTGAGAAGGCAGATCCTTCCAGTTTGAGCTGCTG
AAGTTTTAGGACAAGGATCCTATGGAAAGGTGTTCTGGTGAGGAAGGTGAAGGGTCCGACGCTGGGC
AGCTCTACGCCATGAAGGTCCTAAGAAAGCCACCCTAAAAGTTCGGGACCGAGTGAGATCGAAGATGGA
GAGAGACATCTTGGCAGAAGTGAATCACCCCTTATTGTGAAGCTTATTATGCCTTTCAGACGGAAGGA
AAGCTCTACCTGATCCTGGACTTCTGCGGGGAGGGACCTTTCACCCGGCTCTCAAAGAGGTCATGT
TCACGGAGGAGGATGTCAAGTTCTACCTGGCTGAGCTGGCCTTGCTTTAGACCATCTCCACAGCCTGGG
GATCATCTACAGAGATCTGAAGCCTGAGAACATCCTCCTGGATGAAGAGGGGCACATTAAGATCACAGAT
TTGCGCCTGAGTAAGGAGGCCATTGACCACGACAAGAGAGCGTACTCCTTCTGCGGGACGATCGAGTACA
TGGCGCCCAGGTTGGTGAACCGCGAGGACACACGCAGAGTGCCGACTGGTGGTCTTCCGCGTGCTCAT
GTTTGAGATGCTCACGGGTCCCTGCCGTTCCAGGGGAAGGACAGGAAGGAGACCATGGCTCTATCCTC
AAAGCCAAGCTGGGGATGCCGAGTTTCTCAGTGGGGAGGCACAGAGTTTGTGCGAGCTCTTCAAAC
GGAACCCCTGCAACCGGCTGGGTGCTGGCATTGACGGAGTGGAGGAAATTAAGCGCCATCCCTTCTTTGT
GACCATAGACTGGAACACGCTGTACCGAAGGAGATCAAGCCACCGTTCAAACAGCAGTGGGCAGGCCT
GAGGACACCTTCCACTTTGACCCGAGTTCACAGCGCGGACGCCACAGACTCTCCTGGCGTCCCCCGA
GTGCAAAACGCTCATCACCTGTTTAGAGGATTGAGCTTTGTGGCCTCAAGCCTGATCCAGGAGCCCTACA
GCAAGATCTGCACAAAGTCCAGTTTACCCAATCGTGCAGCAGTTACACGGGAACAACATCCACTTCACC
GATGGCTACGAGATCAAGGAGGACATCGGGTGGGCTCCTACTCAGTGTGCAAGCGATGTGTGCATAAAG
CCACAGACACCGAGTATGCCGTGAAGATCATTGATAAGAGCAAGAGAGACCCCTCGGAAGAGATTGAGAT
CCTCCTGCGGTACGGCCAGCACCCGAACATCATCACCCCTAAGGATGTCTATGATGATGGCAAGTTTGTG
TACCTGGTAATGGAGCTGATGCGTGGTGGGAGCTCCTGGACCGCATCCTCCGGCAGAGATACTTCTCGG
AGCGCGAAGCCAGTGACGTCCTGTGCACCATCACCAAGACCATGGACTACCTCCATTCAGGGGGTTGT
TCATCGAGACCTGAAGCCGAGTAACATCCTGTACAGGGATGAGTCGGGGAGCCAGAATCCATCCGAGTC
TGGCACTTCGGCTTTGCCAAGCAGCTGCGCGGGGAACGGGCTGCTCATGACACCCTGCTACACGGCCA
ATTTCTGGCCCCGAGGTCCTGAAGCGTCAAGGCTATGATGCGGCGTGTGACATCTGGAGTTTGGGGAT
CCTGTTGTACACCATGCTGGCAGGATTTACCCCTTTTGCAAATGGGCCAGACGATACCCCTGAGGAGATT
CTGGCGCGGATCGGCAGTGGGAAGTATGCCCTTCTGGGGGAAACTGGGACTCGATATCTGACGCAGCTA
AAGACGTCGTGTCCAAGATGCTCCACGTGGACCCTCATCAGCGCCTGACGGCGATGCAAGTGTCAAACA
CCCGTGGGTGGTCAACAGAGAGTACCTGTCCCCAAACCAGCTCAGCCGACAGGACGTGCACCTGGTGAAG
GGCGCGATGGCCGCCACTACTTTGCTCTAAACAGAACACCTCAGGCCCCGGCTGGAGCCCGTGTGT
CATCCAACCTGGCTCAGCGCAGAGGCATGAAGAGACTCACGTCCACGCGGCTG

ACGCGTACGCGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC213592 representing NM_001006932
Red=Cloning site Green=Tags(s)

MPIAQLLELWKKIEVEPMEIETTEEDLNLDVEPTTEDTAEEEEGVVKEIDISHHVKEGFEKADPSQFELL
 KVLGQGSYGKVFVLRKVKGSDAGQLYAMKVLKKATLKVRDRVRSKMERDILAEVNHPFIVKLHYAFQTEG
 KLYLILDFLRGGDLFTRL SKEVMFTEEDVKFYLAELALALDHLHSLGIIYRDLKPENILLDEEGHIKID
 FGLSKEAIDHDKRAYSFCGTIEYMAPEVNNRRGHTQSADWWSFGVLMFEMLTGSLPFQ GKDRKETMALIL
 KAKLGMPQFLSGEAQSLLRALFKRNPCNRLGAGIDGVEEIKRHPFFVTIDWNTLYRKEIKPPFKPAVGRP
 EDTFHFDPFTARTPTDSPGVPPSANAHHLFRGFSFVASSLIQEPSQQDLHKVPVHPVIVQQLHGNNIHFT
 DGYEIKEDIGVGSYSVCKRCVHKATDTEYAVKIIDKSKRDPSEEIEILLRYGQHPNIITLKD VYDDGKFKV
 YLMELMRGGELLDRILRQRYFSEREADVLCITKTMDYLHSQGVVHRDLKPSNILYRDESGSPESIRV
 CDFGFAKQLRAGNLLMTPCYTANFVAPEVLKRQGYDAACDIWSLGILLYTMLAGFTPFANGPDDTPEEI
 LARIGSGKYALSGGNWDSISDAAKDVVSKMLHVDPHQRLTAMQVLKHPWVNNREYLSPNQLSRQDVHLVK
 GAMAATYFALNRTPQAPRLEPVLSSNLAQRRGMKRLTSTRL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

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

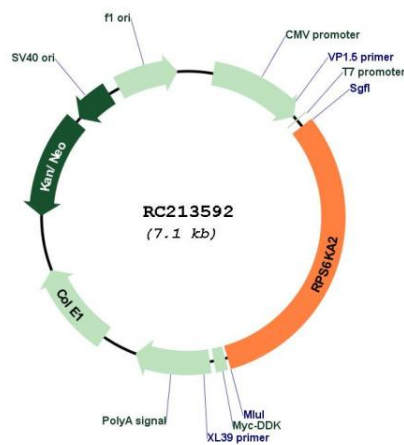
Protein Families: Druggable Genome, Protein Kinase

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

MW: 83.8 kDa

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 RC213592