

Product datasheet for **SC319382**

P70 S6 Kinase beta (RPS6KB2) (NM_003952) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	P70 S6 Kinase beta (RPS6KB2) (NM_003952) Human Untagged Clone
Tag:	Tag Free
Symbol:	P70 S6 Kinase beta
Synonyms:	KLS; p70(S6K)-beta; P70-beta; P70-beta-1; P70-beta-2; p70S6Kb; S6K-beta2; S6K2; S6KB; S6Kbeta; S6KI(2); SRK; STK14B
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_003952.2
 GTCAGTCAGTGC GCGCCAGGTACGGGCGACGGGCCCGGGCCGGCGCCGCCATGGC
 GGCCGTGTTT GATTTGGATTTGGAGACGGAGGAAGGCAGCGAGGGCGAGGGCGAGCCAGA
 GCTCAGCCCCGCGGACGCATGTCCCCTTGCCGAGTTGAGGGCAGCTGGCCTAGAGCCTGT
 GGGACACTATGAAGAGGTGGAGCTGACTGAGACCAGCGTGAACGTTGGCCAGAGCGCAT
 CGGGCCCCACTGCTTTGAGCTGCTGCGTGTCTGGCAAGGGGGCTATGGCAAGGTGTT
 CCAGGTGCGAAAGGTGCAAGGCACCAACTTGGGCAAAATATATGCCATGAAAGTCCTAAG
 GAAGGCCAAAATTGTGCGCAATGCCAAGGACACAGCACACACGGGCTGAGCGGAACAT
 TCTAGAGTCAGTGAAGCACCCCTTTATTGTGAACTGGCCTATGCCTTCCAGACTGGTGG
 CAAACTCTACCTCATCCTTGAGTGCCTCAGTGGTGGCGAGCTCTTACGCATCTGGAGCG
 AGAGGGCATCTTCTGGAAGATACGGCCTGCTTCTACCTGGTGAGATCACGCTGGCCCT
 GGGCCATCTCCACTCCAGGGCATCATCTACGGGACCTCAAGCCGAGAACATCATGCT
 CAGCAGCCAGGGCCACATCAAAGTACCGACTTTGGACTCTGCAAGGAGTCTATCCATGA
 GGGCGCCGTCACACACCTTCTGCGGCACCATTGAGTACATGGCCCTGAGATTCTGGT
 GCGCAGTGGCCACAACCGGGCTGTGGACTGGTGGAGCCTGGGGCCCTGATGTACGACAT
 GCTCACTGGATCGCCGCCCTTACCAGAGAAACCGGAAGAAAACCATGGATAAGATCAT
 CAGGGGCAAGCTGGCACTGCCCCCTACCTCACCCAGATGCCCGGGACCTTGTCAAAAA
 GTTTCTGAAACGGAATCCAGCCAGCGGATTGGGGTGGCCAGGGGATGCTGCTGATGT
 GCAGAGACATCCCTTTTCCGGCACATGAATTGGGACGACCTTCTGGCCTGGCGTGTGGA
 CCCCCCTTTCAGGCCCTGTCTGCAGTCAGAGGAGGACGTGAGCCAGTTTGATAACCCGCTT
 CACACGGCAGACGCCGTGGACAGTCTGATGACACAGCCCTCAGCGAGAGTGCCAAACA
 GGCTTCTCTGGGCTTACATACGTGGCGCCGTCTGTCTGGACAGCATCAAGGAGGGCTT
 CTCTTCCAGCCCAAGCTGCGCTCACCCAGGCGCCTCAACAGTAGCCCCGGGTCCCCGT
 CAGCCCCCTCAAGTTCTCCCTTTTGGGGGTTTCGGCCAGCCCAAGCCTGCGCGAGCC
 CACGGAGCTACCTCTACCTCCACTCCTGCCACCGCCGCCCTCGACCACCGCCCTCT
 CCCCATCCGTCCCCCTCAGGGACCAAGAAGTCCAAGAGGGGCGGTGGGCGTCCAGGGCG
 CTAGGAAGCCGGGTGGGGTGGGGTGGGGTGGGGTGGGGTGGGGTGGGGTGGGGTGGGGT
 AGCAGGACCTGGGCCAGTTCCAGAGACCTGGGGTGTGTCTGGGGTGGGGTGGGGTGGGGT
 CGTATGAAAGTGTGTGTCTGCTGGGCAGCTGTGCCCTGAATCATGGGCACGGAGGGCC
 GCCCGCCACACCCCGCTCAACTGCTCCCGTGAAGATTAAGGGCTGAATCATGAAAA
 AA

Restriction Sites: EcoRI-XhoI

ACCN: NM_003952

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:	NM_003952.2 , NP_003943.2
RefSeq Size:	1782 bp
RefSeq ORF:	1449 bp
Locus ID:	6199
UniProt ID:	Q9UBS0
Cytogenetics:	11q13.2
Domains:	pkinase, S_TK_X, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Acute myeloid leukemia, ErbB signaling pathway, Fc gamma R-mediated phagocytosis, Insulin signaling pathway, mTOR signaling pathway, TGF-beta signaling pathway
Gene Summary:	This gene encodes a member of the RSK (ribosomal S6 kinase) family of serine/threonine kinases. This kinase contains a kinase catalytic domain and phosphorylates the S6 ribosomal protein and eukaryotic translation initiation factor 4B (eIF4B). Phosphorylation of S6 leads to an increase in protein synthesis and cell proliferation. [provided by RefSeq, Jan 2015]