

Product datasheet for **SC323336**

SRPK2 (NM_182691) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SRPK2 (NM_182691) Human Untagged Clone
Tag:	Tag Free
Symbol:	SRPK2
Synonyms:	SFRSK2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC323336 sequence for NM_182691 edited (data generated by NextGen Sequencing)

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ATGTCAGTTAACTCTGAGAAGTCGTCCTCTTCAGAAAGGCCGGAGCCTCAACAGAAAGCT
CCTTTAGTTCTCTCTCCACCGCCACCACCACCACCACCACCGCCACCTTTGCCAGACCCC
ACACCCCGGAGCCAGAGGAGGAGATCCTGGGATCAGATGATGAGGAGCAAGAGGACCTT
GCGGACTACTGCAAAGGTGGATATCATCCAGTAAAAATTGGAGACCTCTCAATGGCCGG
TATCATGTTATTAGAAAGCTTGGATGGGGCAGCTTCTCTACTGTCTGGCTGTGCTGGGAT
ATGCAGGGGAAAAAGATTTGTTGCAATGATGGTTGTAAAAAGTGCCAGCATTATACGGAG
ACAGCCTTGGATGAAATAAAATTGCTCAAATGTGTTTCGAGAAAAGTGATCCAGTGACCCA
AACAAAGACATGGTGGTCCAGCTCATTGACGACTTCAAGATTTTCAGGCATGAATGGGATA
CATGTCTGCATGGTCTTGAAGTACTTGGCCACCATCTCCTCAAGTGGATCATCAAATCC
AACTATCAAGGCCTCCAGTACGTTGTGTGAAGAGTATCATTTCGACAGGTCCTTCAAGGG
TTAGATTACTTACACAGTAAGTGAAGATCATTACTACTGACATAAAGCCGGAAAAATATC
TTGATGTGTGGATGATGCATATGTGAGAAGAATGGCAGCTGAGGCCACTGAGTGGCAG
AAAGCAGGTGCTCCTCCTCCTCAGGGTCTGCAGTGAGTACGGCTCCACAGCAGAAACCT
ATAGGAAAAATATCTAAAAACAAAAAGAAAAAACTGAAAAAGAAACAGAAAGGCAGGCT
GAGTTATTGGAGAAGCGCCTGCAGGAGATAGAAGAATTGGAGCGAGAAGCTGAAAGGAAA
ATAATAGAAGAAAACATCACCTCAGCTGCACCTTCCAATGACCAGGATGGCGAATACTGC
CCAGAGGTGAAACTAAAAACAACAGGATTAGAGGAGGCGGCTGAGGCAGAGACTGCAAAG
GACAATGGTGAAGCTGAGGACCAGGAAGAGAAAAGAAGATGCTGAGAAAAGAAAACATTGAA
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CCTAAAACCAATGGCCATATTGAGAATGGCCATTCTCACTGGAGCAGCAACTGGACGAT
GAAGATGATGATGAAGAAGACTGCCAAATCCTGAGGAATATAATCTTGATGAGCCAAAT
GCAGAAAAGTGATTACACATATAGCAGCTCCTATGAACAATTCAATGGTGAATTGCCAAAT
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TCCTTAGAACCTGTGGCCTGCGGCTCTGTGCTTTCTGAGGGATCACCACTTACTGAGCAA
GAGGAGAGCAGTCCATCCATGACAGAAGCAGAACGGTTTCAGCCTCCAGTACTGGGGAT
TTGCCAAAAGCAAAAACCGGGCAGCTGACTTGTGGTGAATCCCTGGATCCGCGGAAT
GCAGATAAAATTAGAGTAAAAATTGCTGACCTGGGAAATGCTTGTGGGTGCATAAACAC
TTCACGGAAGACATCCAGACGCGTCAGTACCGCTCCATAGAGTTTTTAATAGGAGCGGGG
TACAGCACCCCTGCGGACATCTGGAGCACGGCGTGTATGGCATTGAGCTGGCAACGGGA
GATTATTTGTTTGAACCACATTCTGGGGAAGACTATTCCAGAGACGAAGACCACATAGCC
CACATCATAGAGCTGCTAGGCAGTATTCCAAGGCACTTTGCTCTATCTGGAAAATATTCT
CGGGAATTCTTCAATCGCAGAGGAGAACTGCGACACATACCAAGCTGAAGCCCTGGAGC
CTCTTTGATGTACTTGTGGAAAAGTATGGCTGGCCCCATGAAGATGCTGCACAGTTTACA
GATTTCTGATCCCGATGTTAGAAATGGTTCCAGAAAAACGAGCCTCAGCTGGCGAATGC
CTTCGGCATCCTTGGTTGAATCTTAG
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Clone variation with respect to NM_182691.1
329 a=>t;330 a=>g;1117 a=>g

5' Read Nucleotide Sequence:	>OriGene 5' read for mutant NM_182691 unedited ACCGCCGTTGAGCAATGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAA CCGTCAGAATTTTGTAAACGACTACTATAGGGCGGCCGGAATTCGGCACGAGGGCGGAGCGAGTGGA GGCTGCAGCCCAGCTCGTCTCGGCGCCCGCGTCCGCGTCCGGAAGCCCCCGCCCGCTTCCGCCGCGTC GGAATGAGCTCCCGAAAAGTGCTGGCCATTAGGCCCCGAAAGCGGAGGCCGAAAAGAGAGAAACATCCGA AAAAAATCAAGCAGAAAAGATTGAGTGTGATGTCAGTTAACTCTGAAAAGTCGTCCCTCTTTCAGAA AAGGCCGGGAGCCCTCAAACAGAAAAGCCTCTTATAGTTTCTCTCTTCAACGGGCCAACCAACAA CAACCGGCAACTTTTGCCAGAACCCACAACCCCGGGACCCAAAGAAGGGAATCCGGGGTTCCGGAT AATAAGGACCAAAAGACCCCGCGGCCAATGCAAGGGGGAATTAACAATTGAAAATTGGAGACTCC TTAATGGGCGGGAATACAGGTTAAAGAAAAGCTTGGATGGGGGGACTTTTCTCTCTGTCTGTGCTGCT GGGATGCCGGGAAAGAATTGGTGCCTGTAGGTGTGTAAAATGCGCACAATATATAGAGACACCCCTG GAGAGAATAAAATGCGCACATGTGTGTCGAAGTGATACCCGTGACCCACACAGACATGTGGTGCCACGTC ATGTCGACTCTAGATTCAGCACGATGGAACTGTCTGCTCGGGCTCGAGATATGGCCACTCTCAGTGTTA CATCACATCAAGGCTCCGATCTGTTGAAGAGTCTCGCAGCTCTAGGTATCTACATAGTGCGAATCTCATC GTCACGGAACTGAGTGGAG
Kinase Domain Sequence:	>SC323336 kinase domain raw sequence. By performing BLASTX analysis with this sequence against NCBI reference protein database, you can confirm the presence of the kinase-deficient mutation GCGRACTCTTCATGGCCGGTATCATGTTATTAGAAGCTTGGATGGGGCACTTCTCTACTGTCTGGCTG TGCTGGGATATGCAGGGAAAAGATTTGTTGCAATGATGGTTGAAAAAGTGCCAGCATTATACGGAGA CAGCCTTGGATGAAATAAAATTGCTCAAATGTGTTGAGAAAAGTATCCAGTGACCCAAACAAAGACAT GGTGTCCAGCTATTGACGACTCAAGATTTCAAGCATGAATG
Restriction Sites:	Please inquire
ACCN:	NM_182691
Insert Size:	2800 bp
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 kinase-deficient mutant clone was generated by created by site-directed mutagenesis from the corresponding wild-type clone. See details in "Application of active and kinase-deficient kinome collection for identification of kinases regulating hedgehog signaling." Cell, 2008 May p536-548.
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_182691.1 , NP_872633.1

RefSeq Size:	3737 bp
RefSeq ORF:	2067 bp
Locus ID:	6733
UniProt ID:	P78362
Cytogenetics:	7q22.3
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	<p>Serine/arginine-rich protein-specific kinase which specifically phosphorylates its substrates at serine residues located in regions rich in arginine/serine dipeptides, known as RS domains and is involved in the phosphorylation of SR splicing factors and the regulation of splicing. Promotes neuronal apoptosis by up-regulating cyclin-D1 (CCND1) expression. This is done by the phosphorylation of SRSF2, leading to the suppression of p53/TP53 phosphorylation thereby relieving the repressive effect of p53/TP53 on cyclin-D1 (CCND1) expression. Phosphorylates ACIN1, and redistributes it from the nuclear speckles to the nucleoplasm, resulting in cyclin A1 but not cyclin A2 up-regulation. Plays an essential role in spliceosomal B complex formation via the phosphorylation of DDX23/PRP28. Can mediate hepatitis B virus (HBV) core protein phosphorylation. Plays a negative role in the regulation of HBV replication through a mechanism not involving the phosphorylation of the core protein but by reducing the packaging efficiency of the pregenomic RNA (pgRNA) without affecting the formation of the viral core particles.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) has an alternate first exon compared to variant 1. The resulting isoform (b) has a shorter and distinct N-terminus compared to isoform a. Variants 2, 3, and 4 all encode the same isoform (b).</p>