

Product datasheet for **SC107542**

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:

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>OriGene ORF sequence for NM_182691 edited
ATGTCAGTTAACTCTGAGAAGTCGTCCTCTTCAGAAAGGCCGGAGCCTCAACAGAAAGCT
CCTTTAGTTCTCCTCCTCCACCGCCACCACCACCACCACCGCCACCTTTGCCAGACCCC
ACACCCCCGGAGCCAGAGGAGGAGATCCTGGGATCAGATGATGAGGAGCAAGAGGACCCT
GCGGACTACTGCAAAGGTGGATATCATCCAGTAAAAATTGGAGACCTCTCAATGGCCGG
TATCATGTTATTAGAAAGCTTGGATGGGGCACTTCTCTACTGTCTGGCTGTGCTGGGAT
ATGCAGGGGAAAAGATTTGTTGCAATGAAAGTTGTA AAAAGTGCCACGATTATACGGAG
ACAGCCTTGGATGAAATAAAATTGCTCAAATGTGTTTCGAGAAAAGTGATCCAGTGACCCA
AACAAAGACATGGTGGTCCAGCTCATTGACGACTTCAAGATTTTCAGGCATGAATGGGATA
CATGTCTGCATGGTCTTTCGAAGTACTTGGCCACCATCTCCTCAAGTGGATCATCAAATCC
AACTATCAAGGCCTCCCAGTACGTTGTGTGAAGAGTATCATTTCGACAGGTCTTCAAGGG
TTAGATTACTTACACAGTAAGTGAAGATCATTACTACTGACATAAAGCCGAAAATATC
TTGATGTGTGGATGATGCATATGTGAGAAGAATGGCAGCTGAGGCCACTGAGTGGCAG
AAAGCAGGTGCTCCTCCTCCTCAGGGTCTGCAGTGAGTACGGCTCCACAGCAGAAACCT
ATAGGAAAAATATCTAAAAACAAAAAGAAAAAACTGAAAAAGAAACAGAGAGGCAGGCT
GAGTTATTGGAGAAGCGCTGCAGGAGATAGAAGAATTGGAGCGAGAAGCTGAAAGGAAA
ATAATAGAAGAAAACATCACCTCAGCTGCACCTTCCAATGACCAGGATGGCGAATACTGC
CCAGAGGTGAAACTAAAAACAACAGGATTAGAGGAGGCGGCTGAGGCAGAGACTGAAAAG
GACAATGGTGAAGCTGAGGACCAGGAAGAGAAAAGATGCTGAGAAAAGAAAACATTGAA
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CCTAAAACCAATGGCCATATTGAGAATGGCCATTCTCACTGGAGCAGCAACTGGACGAT
GAAGATGATGATGAAGAAGACTGCCAAATCCTGAGGAATATAATCTTGATGAGCCAAAT
GCAGAAAGTGATTACACATATAGCAGCTCCTATGAACAATTCAATGGTGAATTGCCAAAT
GGACGACATAAAATTCCCGAGTACAGTCCAGAGTTTTCCACCTCGTTGTTCTCTGGA
TCCTTAGAACCTGTGGCCTGCGGCTCTGTGCTTCTGAGGGATCACCCTTACTGAGCAA
GAGGAGAGCAGTCCATCCATGACAGAAGCAGAACGGTTTCAGCCTCCAGTACTGGGGAT
TTGCCAAAAGCAAAAACCCGGGAGCTGACTTGTGGTGAATCCCTGGATCCGCGGAAT
GCAGATAAAATTAGAGTAAAAATTGCTGACCTGGGAAATGCTTGTGGGTGCATAAACAC
TTCACGGAAGACATCCAGACGCGTCAGTACCGCTCCATAGAGGTTTTAATAGGAGCGGGG
TACAGCACCCCTGCGGACATCTGGAGCACGGCGTGTATGGCATTGAGCTGGCAACGGGA
GATTTATTTGTTTGAACCACATTCTGGGGAAGACTATTCCAGAGACGAAGACCACATAGCC
CACATCATAGAGCTGCTAGGCAGTATTCCAAGGCACTTTGCTCTATCTGGAAAATATTCT
CGGGAATTCCTCAATCGCAGAGGAGAACTGCGACACATACCAAGCTGAAGCCCTGGAGC
CTCTTTGATGACTTGTGGAAAAGTATGGCTGGCCCCATGAAGATGCTGCACAGTTTACA
GATTTCTGATCCCGATGTTAGAAATGGTTCCAGAAAAACGAGCCTCAGCTGGCGAATGC
CTTCGGCATCCTTGGTTGAATCTTAG
    
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_182691 unedited GTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGGCGGAGCGAGTGGAGGC TGCAGCCCAGCTCGTCTCGGGCGCCCGCTCGCCGTGCGGAAGCCCCCGCCCGCTTCCG CCGCGTCGGAATGAGCTCCCGAAAAGTGTGGCCATTGAGCCCGAAAAGCGGAGGCCGAA AAGAGAGAAACACTCCGAAAAAATCAAGCAGAAGATTGAGCTGCTGATGTCAGTTAAC TCTGAGAAGTCGTCCTTTCAGAAAAGCCGGAGCCTCAACAGAAAAGCTCCTTTAGTTCTC CCTCTCCACCGCCACCACCACCACCACCACCACCTTTGCCAGACCCACACCCCGGAG CCAGAGGAGGAGATCCTGGGATCAGATGATGAGGAGCAAGAGGACCCTGCGGACTACTGC AAAGGTGGATATCATCCAGTAAAAATTGGAGACCTCTTCAATGGCCGGTATCATGTTATT AGAAAGCTTGGATGGGGCACTTCTACTGTCTGGTGTGCTGGGATATGCAGGGGAAA AGATTTGTTGCAATGAAAGTTGTAAGAAAGTGCCAGCATTATACGGAGACAGCCTTGGAT GAAATAAAATTGCTCAAATGTGTTTCGAGAAAAGTATCCAGTGACCCAAACAAAGACATG GTGGTCCAGCTCATTGACGACTTCAAGATTTTCAGGCATGAATGGGATACATGTCTGCATG GTCTTCGAAGTACTTGGCCACCATCTCCTCAAGTGGATCATCAAATCCAATATCAAGGC CTCCAGTACGTTGTTGGTGAAGAGTATCATTTCGACAGGTCTCCAAGGGTAGATTACTTA CACAGNNTAGTGAGATCATTACTACTGACATANAGCCCGGAAAAATATCTTGAGTGTNGT GGATGATGCATATGTGAGAAGAATGGNCAGCTGAGCCACTGAGTGCAAAAAGCAGT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_182691 unedited CGGCCGAATCTAGNATCGAGTTTTTTTTTTTTTTTTTTTTAGCTTTTCTGAAATTTGAGTC CCCCTCCCATATTTAATGAAAAGTAACATTTACAGGGTGCATTTACATACTATAAATAC AGGAATGATGTCCCTTTGCCAGAAGATAAAAATTGTACATTTCTTCTGCTATTTCTTGGTTC CAACTTGATAATTTCTTAAGATTGTAAATTATATAGTACTCAGCTAAAATATTTCTTCAT AAATAGTTACAAAACCTGCCAAAACACAAAGGGGAAAAGTATTTTTTATTCAAAAAATGA CATTTGAATGTCACACAACAAGAAAACATGCTTAGAGACATGTTATTGTTCCAGAAG AAAATGGTCAGTAAACTACTTAGCTGAAGACAAAAGACTACCCTTCCCAGGATCACAGT GCACAAAAGCAAAAATGTCAAACAACAGTACCTCAAAGCAAAAATAAAGTCTGAGGATGA AGCCAGCTCACTTGTAAATCCTGTTAAAGAATGAGAGTACCCTTTAGGTCCAATGTACTG GGAACATTTGCTAGCTCAGAATGCAATATTGGTAGAATTTGCTAAGAATCAACCAAGGA TGCCGAAGGCATTGCCAGCTGAGGCTCGTTTTTCTGGAACCATTTCTAACATCGGGATC AGGAAATCTGTAAACTGTGCAGCATCTTTCATGGGGCCAGCCATACTTTTCCACAAGTACA TCAAAGAGGCTCCAGGGCTTTCAGCTTGGTATGTGTCGAGTTCTCCTCTGCGATTGAAG AATTTCCGAGAATATTNTCCAGATAGAGCAAAGTGCCTTGAATACTGCCTANCAGCTCT ATGATGTGCGCTACGTGGCCTCCGCCCTGGAATATCTTCCCAAATGTGGTTCAAACAA TAATCTCCCGTTGCAGCTCAATGCCTACAGCCCGGCTTCCATGTCGTAGGGCGCTGTACC CGCTCTATTAACCTTCGCACGC</p>
Restriction Sites:	NotI-NotI
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).
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_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: 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]

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).