

Product datasheet for **SC322514**

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for SC322514
ACAGAAGTACTGCGAATCTTGTGGCCTCATTCTGAACAAAAGGGATTAGAGAAGAAAAAT
CTCTTGATATAAGGCTTGAAAGCAAGGGCAGGCAATCTTGGTTGTGAATATTTTCTGATT
TTTCCAGAAATCAAGCAGAAGATTGAGCTGCTGATGTCAGTTAACTCTGAGAAGTCGTCC
TCTTCAGAAAGGCCGGAGCCTCAACAGAAAGCTCCTTTAGTTCCTCCTCCACCGCCA
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GGGCACCTCTACTGTCTGGCTGTGCTGGGATATGCAGGGGAAAAGATTGTTGCAATG
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AAATGTGTTCGAGAAAGTATCCAGTGACCCAAACAAAGACATGGTGGTCCAGCTCATT
GACGACTTCAAGATTTCCAGGCATGAATGGGATACATGTCTGCATGGTCTTCAAGTACTT
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GTGCTTTCTGAGGGATCACCACTTACTGAGCAAGAGGAGAGCAGTCCATCCCATGACAGA
AGCAGAACGGTTTCAGCCTCCAGTACTGGGGATTTGCCAAAAGCAAAAACCCGGGACGT
GACTTGTGGTGAATCCCCTGGATCCGCGGAATGCAGATAAAATTAGAGTAAAAATTGCT
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TACCGCTCCATAGAGGTTTTAATAGGAGCGGGGTACAGCACCCCTGCGGACATCTGGAGC
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CCAAGGCACTTTGCTCTATCTGGAAAATATTCTCGGGAATTCTTCAATCGCAGAGGAGAA
CTGCGACACATCACCAAGCTGAAGCCCTGGAGCCTCTTTGATGTACTTGTGAAAAAGTAT
GGCTGGCCCCATGAAGATGCTGCACAGTTTACAGATTTCTGATCCCGATGTTAGAAATG
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GCTCTGGGTTATAAGATGTCATTCTCTATATGGCACTTTAAAGGAAGAAAAGATATGTTT
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AAGTACTTTTAAAGAAAGCAATTTCCCTTTAAAAATGTGATGGCTCAGTACCATGTCAT
GTTGCCTCCTCTGGGCGCTGTAAGTTAAGCTCTACATAGATTAATTTGGAGAAACGTGTT
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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- Restriction Sites:** Please inquire
- ACCN:** NM_182691
- 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:**
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>