

Product datasheet for **MG210006**

Srpk2 (NM_009274) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Srpk2 (NM_009274) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Srpk2
Synonyms:	AW226533; AW492537; AW547358; mSRPK2; Wbp6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG210006 representing NM_009274
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGTCAGTTAACTCTGAGAAGTCGTCCTCTTCAGAAAGGCCGAGCCTCAACAGAAAGCTCCTTTAGTTC
CTCCTCCTCCACCACCACCACCACCACCCTGCCAGACCCCGCACCCCCAGAGCCAGAGGAGGAGAT
TCTGGGGTCAGATGATGAGGAGCAGGAGGACCCCGCAGATTACTGCAAAGGTGGCTATCATCCAGTGAAA
ATTGGAGATCTCTCAATGGTCGATATCATGTCATTAGAAAGCTAGGATGGGGGCACTTTTCTACTGTAT
GGCTGTGCTGGGATATGCAAGGGAAAAGATTTGTTGCAATGAAAGTTGTAAGAAAGTGCCACGATTATAC
AGAGACAGCCTTGGATGAAATTAAGTACTCAAATGCGTTCGAGAAAGTGACCCAGTGACCCAAACAAA
GACATGGTAGTTCAGCTAATTGATGACTCAAGATCTCAGGCATGAATGGGATACATGTCTGCATGGTCT
TTGAAGTACTTGGTCACCATCTCCTCAAATGGATCATCAAATCCAATATCAAGGCCTCCAGTACGTTG
TGTGAAGAGTATCATTGACAGGTCCTCAAGGGTTAGATTATCTACACAGTAAGTGCAAGATAATTCAC
ACCGACATAAAGCCGGAACATCTTGATGTGTGGATGACGCTTACGTGAGAAGAAATGGCAGCCGAAG
CCACGGAGTGGCAGAAAGCAGGTGCTCCTCCTCCTCTGGGTCTGCAGTGAGTACGGCTCCACAGCAAAA
ACCTATAGGAAAAATATCTAAAAACAAAAGAAAAGCTGAAAAAGAAACAGAAGAGACAGGCTGAGTTG
CTGGAGAAACGCCTACAGGAGATTGAGGAATTGGAGCGAGAAGCCGAAAGGAAAACTAGAGGAGAAACA
TCACCTCTGCAGAAGCTTCCGGGGAGCAGCAGGATGGAGAGTACCAGCCGGAGGTGACACTGAAAGCAGC
CGACTTAGAGGACACAACAGGAGAGACAGCAAAAGGATAATGGTGAAGTTGAAGACCAGGAAGAGAAA
GAAGATGCAGAGAAGGAGAACCGGAGAGGATGAAGATGATGTTGAACAGGAACCTGCAAACTTAGACC
CTACCTGGGTGGAGTCCCGAAAGCCAATGGCCATATTGAAAATGGCCCGTTCTCACTGGAGCAGCAGCT
GGAGGATGAAGAGGACGATGAAGATGACTGTGCAAATCCCGAGGAGTATAACCTCGATGAGCCAAATGCA
GAGAGTGATTACACGTATAGCAGCTCCTATGAACAATCAATGGTGAATTGCCAAATGGACAACATAAGA
CTTCAGAGTTTCCACACCGTTGTTTTCTGGGCCCTTAGAACCTGTGGCCTGTGGCTCTGTGATTTGAGA
GGGATCGCCACTTACCGAGCAGGAGGAAAGCAGTCCCTCCCATGACAGAAGCAGGACAGTTTCAGCCTCT
AGTACTGGAGATTTGCCAAAAACAAAACCCGGGCGGCTGACCTGTTGGTGAACCCTCTGGATCCACGGA
ATGCAGATAAAATTAGAGTAAAAATTGCTGACCTGGGAAATGCTTGTGGGTGCATAAACATTTACAGAG
GGATATCCAGACACGTCAGTATAGGTCCATAGAGGTTTTAATAGGAGCAGGCTACAGCACACCTGCAGAC
ATTTGGAGTACAGCTTGCATGGCATTGAGCTCGCCACAGGAGACTATTTGTTGCAACCGCATTCTGGGG
AAGACTATTCCAGAGATGAAGACCACATAGCCACATCATAGAGCTGCTAGGCAGTATCCCAAGGCCTT
TGCTCTGTCTGAAAAATTTCTCGGAATCTTCAATCGCAGAGGAGAACTGCGGCACATACCAAGCTG
AAGCCCTGGAGCCTCTTTGATGTAATGTGAAAAAGTATGGCTGGCCCCATGAAGATGCTGCACAATTTA
CAGATTTCTGATCCCAATGTTAGAGATGGTTCAGAAAAACGAGCCTCAGCTGGCGAATGCCTTCGACA
TCCTTGTTGAATTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210006 representing NM_009274
 Red=Cloning site Green=Tags(s)

MSVNSEKSSSSERPEPQQKAPLVPPPPPPPPPLPDPAPPEPEEEILGSDDEEQEDPADYCKGGYHPVK
 IGDLFNGRYHVIRKLGWGHFSTVWLCWDMQGRFVAMKVVKSAQHYTETALDEIKLLKCVRESDPSPNK
 DMVVQLIDDFKISGMNGIHVCMVFEVLGHLLKWIISNYQGLPVRCVKSIIIRQVLQGLDYLHCKCKIIH
 TDIKPENILMCVDDAYVRRMAEAATEWQKAGAPPPSGSAVSTAPQQKPIGKISKNNKKKLLKKQKRQAE
 LEKRLQEIIEELEREAKILEENITSAEASGEQQDGEYQPEVTLKAADLEDTTEETAKDNGEVEDQEEL
 EDAEKENAEDDEDDVEQELANLDPTWVESPKANGLIENGPFLEQQLEDEEDDEDDCANPEEYNLDEPNA
 ESDYTYSSSYEQFNGELPNGQHKTSFPTPLFSGPLEPVACGSVISEGSPLTEQEESSPHDRSRTVSAS
 STGDLPKTKTRAADLLVNPLDPRNADKIRVKIADLGNACWVHKHFTEDIQTRQYRSIEVLIGAGYSTPAD
 IWSTACMAFELATGDYLFEPHSGEDYSRDEDHIAHIIELLGSIPRHFALSGKYSREFFNRRGELRHITKL
 KPWSLFDVLVEKYGWPHEDAAQFTDFLIPMLEMVPEKRASAGECLRHPWLNS

TRTRPLE - GFP Tag - V

Restriction Sites:

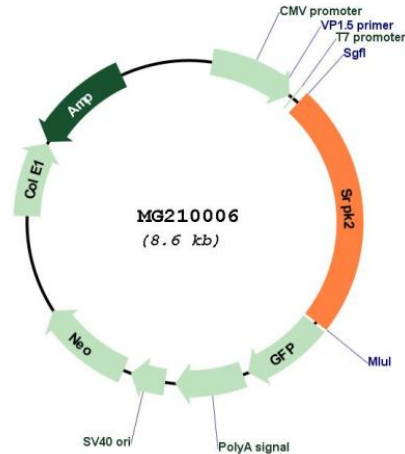
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_009274

ORF Size: 2046 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_009274.2](#), [NP_033300.2](#)

RefSeq Size: 6436 bp

RefSeq ORF: 2049 bp

Locus ID: 20817

UniProt ID: [O54781](#)

Cytogenetics: 5 10.36 cM

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.[UniProtKB/Swiss-Prot Function]