

Product datasheet for **RR206986**

Spred2 (NM_001047094) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Spred2 (NM_001047094) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Spred2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR206986 representing NM_001047094
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCGAAGAAACACACCCGGACGATGACAGCTATATTGTGCGTGTCAAGGCTGTGGTTATGACCAGAG
ATGACTCCAGCGGGGATGGTTCCACAGGAAGGAGCGGGATCAGTCGCGTCGGGTGTGAAGGTCAT
GCACCCCTGAAGGCAACGGACGGAGCGGCTTCTCATCCATGGCGAACGACAGAAAGACAACTGGTTGTA
TTGGAATGCTATGTCAGAAAGGACTTGGTCTACACCAAAGCCAATCCGAGGTTTACCATTGGAAGGTTG
ATAATAGGAAGTTTGACTTACTTTCCAAAGCCCTGCGGATGCACGAGCCTTTGACAGGGCGTGAGAAA
AGCCATCGAAGACCTTATAGAAGTTCAACAACCTCCTCTCCACGATCCATAACGAAGCTGAGCTCGGA
GACGATGACGTTTTTAACTGCCACAGACAGTTCTTCTAATTCCTCGCAGAAGAGGGAGCCGAATACAA
GGACAATCTCTCCCCACATCGTGCAGACACCGGAGGATTTATACCCTTGACCCGTACCCCATGGATCT
TTACCACCCGACGAGCTTTGCCGCGTCTACCCAGGTCACCTTCCGGAAGATGATGAAGAGATA
GTACGCATCAACCCCGAGAGAAGATCTGGATGACGGTTACGAAGATTACGGCACGCGCCAGTCCGCG
GCAAATACTTGGACAGCACCGAAGACGACGACTCTACGTGCGCTTCGCCAAGGGTGAAGTCCCAAACA
CGAATATACGTATCCCTACGTTGATTCTTCGGACTTTGGCTTCGGCAGGATCCCAAAGGCAATGTGATC
AAGACACAGCCGCCAGGGCCAAGTCCCGTCCGCGGAAGGAGAACGGCGAACGGTCCGCGTGCCTGTACT
GCAGGGACATGTTCAACCACGAAGAGAACAAGGGGCCACTGCCAAGACGCGCCGACGCGGTGAGAAC
GTGCATTGCGCGGTGAGCTGTATGTGGTGCAGGACAGCATGCTGTACCACTGCATGTCGACCCCGAG
GGAGACTACACTGACCCCTGTTGCTGCGACACAAGCGACGAGAAGTTTGCCTCCGGTGGATGGCACTAA
TTGCCTTGCTTTCTGGCTCCTGTATGTGCTGTTACCTGCCCTCCGGCCTGCCACCACTGTGGAGT
GATGTGCAGGTGCTGTGGTGGGAAGCACAAAGCCGCTGCC

ACGCGTACGCGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR206986 representing NM_001047094
 Red=Cloning site Green=Tags(s)

MTEETHPDDDSYIVRVKAVVMTRDSSGGWFPQEGGGISRVGVCKVMHPEGNGRSGFLIHGERQKDKLVV
 LECYVRKDLVYTKANPTFHHWKVDNRKFLGTFQSPADARAFDRGVRKAIEDLIEGSTTSSSTIHNEAELG
 DDDVFTTATDSSSNSSQKREPNTRTISSPTSCEHRRITYLDPYMDLYHPDQRLPRSYQVTFPEDDEEI
 VRINPREKIWMTGIEDYRHAPVRGKYLDSTEDADSYVRFKAGEVPKHEYTYYPYVDSDFGFEDPKGNVI
 KTQPPRAKSRRRKENGRSVCYCRDMFNHEENRRGHQCQAPDAVRTCIRRVSCMWCADSMLYHCMSDPE
 GDYTDPCSCDTSDEKFCLRWMLIALSFLAPCMCCYLPLRACHHCGVMCRCCGGKHKAAA

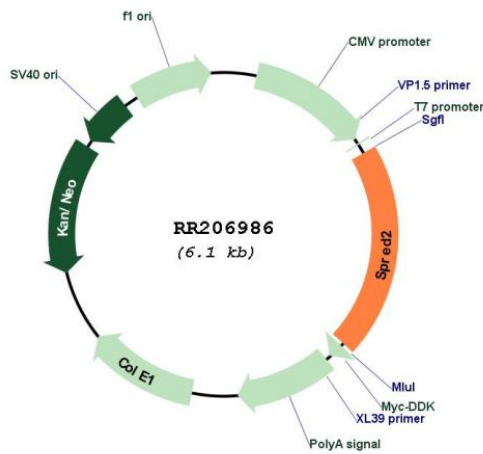
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001047094

ORF Size:	1230 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:	<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_001047094.1 , NP_001040559.1
RefSeq Size:	1233 bp
RefSeq ORF:	1233 bp
Locus ID:	305539
UniProt ID:	Q3C2P8
Cytogenetics:	14q22
MW:	46.8 kDa
Gene Summary:	Negatively regulates Ras signaling pathways and downstream activation of MAP kinases. [UniProtKB/Swiss-Prot Function]