

Product datasheet for MR206449

Spred2 (NM_033523) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Spred2 (NM_033523) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Spred2
Synonyms:	C79158
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206449 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCGAAGAAACACACCCGGACGATGACAGCTATATTGTGCGTGTCAAGGCTGTGGTTATGACCAGAG
ATGACTCCAGCGGGGATGGTCCACAGGAAGGAGCGGGATCAGTCGCGTCGGCGTGTGAAGGTCAT
GCACCCGAAGGCAACGGACGAAGCGGCTTTCATCCATGGCGAGCGACAGAAAGACAAACTGGTGTA
TTGGAATGCTATGTCAGAAAGGACTTGGTCTACACAAAGCCAATCCGACGTTTCATCATTGGAAGTTG
ATAACAGGAAGTTGGACTTACTTTCCAAAGTCTGCAGATGCACGAGCCTTTGACAGGGCGGTGAGAAA
AGCCATTGAAGACCTTATAGAAGTTCAACGACCTCCTCTCCACTCTCCATAACGAAGCTGAGCTCGGA
GACGATGACGTTTTACGACAGCTACGGACAGTCTTCTAATTCTCGCAGAAGAGGGAGCCGACTACGA
GGACAATCTCCTCCCCACGTCCTGTGAGCACCAGGAAATTTATACCCCTGACCCATACCCCATGGACCA
TTACCACCTGACCAGCGGTTGCCGCGTCTACCCCAAGGTCACCTTCCAGAAGATGATGAAGAAATT
GTACGCATCAACCCCGAGAGAAGATCTGGATGACCGTTATGAAGACTACCGGCACGCGCGGTTCCGG
GCAATACTTAGACACCAGAGACGCGGACTCCTACGTGCGCTTCGCCAAGGGCGAAGTCCCAAAACA
CGAATATACCTATCCCTATGTTGATTCTTCGACTTCGGCTTCGGGAGGATCCCAAAGGTAGTGTGATC
AAGACACAGCCGCCAGGGCCAAGTCCCCTCGCGGAAGGAGAACGGCGAACGGTCCGGTGTGTACT
GCAGGGATATGTTAATCACGAAGAGAACCGAAGGGCCACTGCCAAGACGCGCCCGACCGGTGAGAAC
TTGCATTGCGCGGTGAGCTGTATGTGGTGCAGGACAGCATGCTGTACCACTGTATGTCGACCCCGAG
GGAGACTACACTGACCCTTGTTCGTGTGACACAAGCGATGAGAAGTTTTGCCTCCGGTGGATGGCTCTAA
TTGCCTTGTCTTCTGGCCCCTGTATGTGCTGTACCTGCCCTCCGGGCTGCCACCGCTGTGGAGT
GATGTGCAGGTGCTGTGGTGGGAAGCACAAAGCCCGCGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206449 protein sequence
 Red=Cloning site Green=Tags(s)

MTEETHPDDDSYIVRVKAVVMTRDDSSGGWFPQEGGGISRVGVCKVMHPEGNRSGFLIHGERQKDKLVV
 LECYVRKDLVYTKANPTFHHWKVDNRKFLGTFQSPADARAFDRGVRKAIEDLIEGSTTSSSTLHNEAELG
 DDDVFTTATDSSSNSSQKREPTTRTISSTPSCEHRKIYTLDPYPMHDHYHPDQRLPRSYQVTFPEDDEEI
 VRINPREKIWMGTGYEDYRHAPVRGKYLDTTEDADSYVRFKAGEVPKHEYTYPYVDSSDFGFEDPKGSVI
 KTQPRAKSRRRKENGERSRCVYCRDMFNHEENRRGHQCQDAPDAVRTCIRRVSCEMWCADSMLYHCMSDPE
 GDYTDPCSCDTSDEKFCLRWMLIALSFLAPCMCCYLPLRACHRCGMCRCCGGKHKAAA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_033523

ORF Size: 1233 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_033523.4](#), [NP_277058.1](#)

RefSeq Size: 2872 bp

RefSeq ORF: 1233 bp

Locus ID: 114716

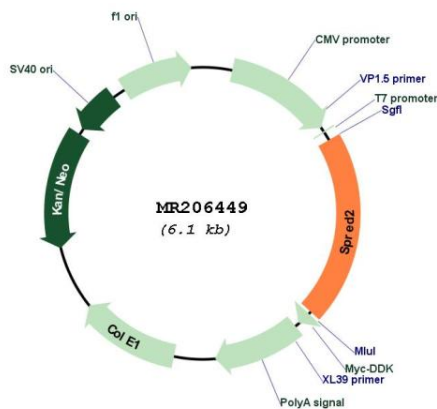
UniProt ID: [Q924S7](#)

Cytogenetics: 11 A3.1

MW: 46.8 kDa

Gene Summary: Negatively regulates Ras signaling pathways and downstream activation of MAP kinases. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206449