

Product datasheet for **RG225652**

SPRED2 (NM_001128210) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SPRED2 (NM_001128210) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SPRED2
Synonyms:	Spred-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG225652 representing NM_001128210 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCATCGCCTGGCAGTGACAGCTATATTGTGCGTGTCAAGGCTGTGGTTATGACCAGAGATGACTCCA
GCGGGGGATGGTCCCACAGGAAGGAGGCGGGATCAGTCGCGTCGGGGTCTGTAAGGTCATGCACCCCGA
AGGCAATGGACGAAGCGGCTTTCTCATCCATGGTGAACGACAGAAAGACAAACTGGTGGTATTGGAATGC
TATGTAAGAAAGGACTTGGTCTACACCAAAGCCAATCCAACGTTTCATCACTGGAAGGTCGATAATAGGA
AGTTTGGACTTACTTTCAAAGCCCTGCTGATGCCCGAGCCTTTGACAGGGGAGTAAGGAAAGCAATCGA
AGACCTTATAGAAGTTCAACAACGTCATCTTCCACCATCCATAATGAAGCTGAGCTTGGCGATGATGAC
GTTTTTACAACAGCTACAGACAGTTCTTCTAATTCCTCTCAGAAGAGAGCAACCTACTCGGACAACTCT
CCTCTCCACATCCTGTGAGCACCAGGATTTATACCCTGGGCCACCTCCACGACTCATACCCCACAGA
CCACTATCACCTCGATCAGCCGATGCCAAGGCCCTACCGCCAGGTGAGCTTCCCGACGACGACGAGGAG
ATCGTGCGCATCAACCCCGGGAGAAGATCTGGATGACGGGTACGAGGATTACCGGCACGCACCCGTC
GGGCAAGTACCGGACCCTCGGAGGACGCGGACTCCTCCTACGTGCGCTTCGCAAGGGCGAGGTCCC
CAAGCATGACTACAACCTACCCCTACGTGGACTCCTCAGACTTTGGCCTAGGCGAGGACCCCAAAGGCCG
GGGGCAGCGTGATCAAGACGACGCCCTCCCGGGCAAGTCGCGGCGCGGAAGGAGGACGAGAGCGCT
CGCGGTGCGTGTACTGCAGGGACATGTTCAACCACGAGGAGAACCAGCGCGGGCCACTGCCAGGACGCGCC
CGACTCCGTGAGAACTTGCATCCGCCGGGTGAGCTGCATGTGGTGC GCGGACAGCATGCTCTACTCTGT
ATGTCGGACCCCGAGGGAGACTATACAGACCCTTGCTCGTGCGATACTAGCGACGAGAAGTTTTGCCTCC
GGTGGATGGCTCTTATTGCCTTGTCTTTCTGGCCCCCTGTATGTGCTGTTACCTGCCCTTCGGGCGCT
CTACCACTGCGGAGTGATGTGCAGGTGCTGTGGCGGAAGCACAAAGCGGCCGCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG225652 representing NM_001128210
 Red=Cloning site Green=Tags(s)

MASPGSDSYIVRVKAVVMTRDDSSGGWFPQEGGGISRVGVCKVMHPEGNRSGFLIHGERQKDKLVVLEC
 YVRKDLVYTKANPTFFHHWKVDNRKFGLTFQSPADARAFDRGVRKAIEDLIEGSTTSSSTIHNEAELGDDD
 VFTTATDSSSNSSQKREQPTRTISSTPSCEHRRITYTLGHLHDSYPTDHYHLDQPMRPYRQVSPDDDEE
 IVRINPREKIWMGTGYEDYRHAPVRGKYDPSEDADSSYVRFKGEVPKHDYNYPYVDSSDFLGEDPKGR
 GGSVIKTQPSRSGKSRRRKEDGERSRCVYCRDMFNHEENRRGHCDAPDSVRTCIRRVSCEMWCADSMYLHC
 MSDPEGDYTDPCSDTSDEKFCLRWMLIALSFLAPCMCCYLPLRACYHCGVMCRCCGGKHKAAA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001128210

ORF Size: 1245 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_001128210.2](#)

RefSeq Size: 4104 bp

RefSeq ORF: 1248 bp

Locus ID: 200734

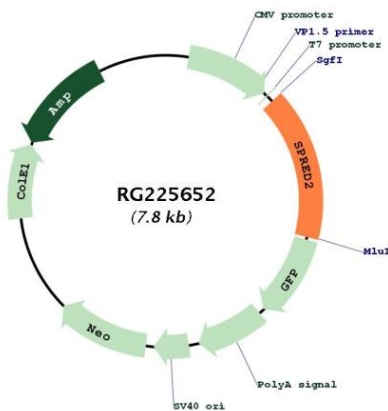
UniProt ID: [Q7Z698](#)

Cytogenetics: 2p14

Protein Pathways: Jak-STAT signaling pathway

Gene Summary: SPRED2 is a member of the Sprouty (see SPRY1; MIM 602465)/SPRED family of proteins that regulate growth factor-induced activation of the MAP kinase cascade (see MAPK1; MIM 176948) (Nonami et al., 2004 [PubMed 15465815]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RG225652