

Product datasheet for **RG227893**

SH2B1 (NM_001145797) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SH2B1 (NM_001145797) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SH2B1
Synonyms:	PSM; SH2B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG227893 representing NM_001145797
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAATGGTGCCCTTCCCAGAGGACGGGCTCCCCCTCGTCTCCCCCGCTGCCCCACCCCGCCCC
CTAGTTGGCGGGAGTTCTGTGAGTCCCACGCCGGCTGCGGCTCTGGACTTTGCCCGCCGTTTTCGCCT
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CTCTTCTGCAGCACTTTGAAGCCGAGGTGGCCCGGCCCTCTGGCTCCCTGTCGCCACCCATCTGGCTC
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GGCTGTGTGGGCCCTTCTCGATCATCTGAGGACCTGGCCGGCCCCCTCCCTTCTCAGTCTTCTCTCC
TCTACAACCTCTCCAAGCCGAGCTCAAGAAGCGTTTTCCCTGCGTTCAGTGGTTCGCTCTGTCCGAG
GCTCAGTCCGTGGCATCTCGAGTGGCGGGGACCGTTGACCCTCCCTCCGCTGGGCCCTGGAGAC
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AGGGCGGTGAGGGGGACAGCCCCTCTCAGGGTATCCTTGGTTCCACGGGATGCTCTCTCGGCTCAAGGC
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CGGGTGAATACGTCCTCACCTTCAACTCCAGGGCAAGGCAAGCACCTGCGTTTGTGCTGAACGAGG
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CCCCATCCCTTTGGAGTCGGGAGGCTCCAGTGTGTTGTCTTGTGAGCTATGTCCCATCTCCCAGCGA
CAGCAGGGTGAGCAGAGCAGGTCTGCAGGGGAGGAGGTGCCCGTGACCCCAAGAAGTGAAGCCGGGAGCA
GGCTGGGAGCCATGCGGGGTGTGCGAGGGAGATGGATGCCACCCCGATGCCTCTGCACCTCATGCC
TTCGGAGCGAGTGACTGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG227893 representing NM_001145797
 Red=Cloning site Green=Tags(s)

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MNGAPSPEDGASPSSPPLPPPPPPSWREFCESHARAAALDFARRFRLYLASHPQYAGPGAEEAFSRRFAE
LFLQHFEAEVARASGSLSPPI LAPLSPGAEISPHDLSLESCRVGGLAVLGPSRSSEDLAGLPPSSVSSS
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RGLVSDGTSPGERWTHRFRERLRLSRGGGALKDGAGMVQREELL SFGMAEEAAPDPAGVGRGGGVAGPPSG
GGGQPQWQKCRLLLRSEGE GGGSRLEFFVPPKASRPRLSIPCSSITDVRTTTALEMPDRENTFVVKVEG
PSEYIMETVDAQHVKAWSDIQECLSPGPCPATSPRPMTLPLAPGTSFLTRENTDSLELSCLNHSESLPS
QDLLLGPSESNDRLSQGAYGGLSDRPSASIS PSSASIAASHFDSMELLPELPPRIPIIEEGPPTGTVHPL
SAPYPLDTPETATGSFLFQGEPEGGEDQPLSGYPWFHGMLSRLKAAQLVLTGGTGS HGVLVVRQSETR
RGEYVLT FNFGQKAKHLRLSLNEEGQCRVQHLWFQSI FDMLEHFRVHPIPLESGGSSDVLVSYVPSQR
QQGEQSR SAGEEVPVHPRSEAGSRLGAMRGCAREMDATPMPAPSCP SERVTV
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001145797

ORF Size: 2049 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_001145797.1](#), [NP_001139269.1](#)

RefSeq Size: 3099 bp

RefSeq ORF: 2052 bp

Locus ID: 25970

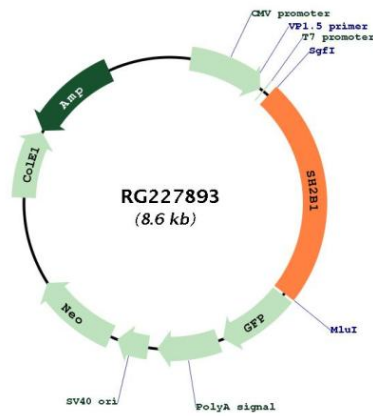
UniProt ID: [Q9NRF2](#)

Cytogenetics: 16p11.2

Protein Pathways: Neurotrophin signaling pathway

Gene Summary: This gene encodes a member of the SH2-domain containing mediators family. The encoded protein mediates activation of various kinases and may function in cytokine and growth factor receptor signaling and cellular transformation. Alternatively spliced transcript variants have been described. [provided by RefSeq, Mar 2009]

Product images:



Circular map for RG227893