

Product datasheet for **RG222333**

SH2B1 (NM_015503) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SH2B1 (NM_015503) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RG222333 representing NM_015503
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAATGGTGCCCTTCCCAGAGGACGGGCTCCCTCGTCTCCCCGCTGCCCCACCCCGCCCC
 CTAGTTGGCGGGAGTTCTGTGAGTCCCACGCCGGCTGCGGCTCTGGACTTTGCCCGCCGTTTTCGCCT
 CTACCTGGCCTCCACCCCAATATGCGGGGCCGGGGCCGAGGCTGCCTTCTCCCGCCGTTTTGTGAG
 CTCTTCTGCAGCACTTTGAAGCCGAGGTGGCCGGGCTCTGGCTCCCTGTCGCCACCCATCTGGCTC
 CCCTGAGCCCTGGTGGGAGATTTCGCCACATGACCTGTCCCTTGAGAGCTGCAGGTGGTGGGCCCT
 GGCTGTGTGGGCCCTTCTCGATCATCTGAGGACCTGGCCGGCCCTCCCTTCTCAGTCTTCTCTCC
 TCTACAACCTCTCAAGCCGAAGCTCAAGAAGCGTTTTCCCTGCGTTCAGTGGTTCGCTGTCCGAG
 GCTCAGTCCGTGGCATCTGCAGTGGCGGGGACCGTTGACCCTCCCTCCGCTGGGCCCTGGAGAC
 CTGCTCAGGCCCCAGTCTTAGGTGAAACAGCAACTCCAACCTCTGGCGGGCTGGGACCGTTGGT
 AGGGGACTGGTCACTGATGGAACGTCCCTGGGAAAGATGGACTCACCGTTTTGAGAGGCTGAGACTCA
 GTCGGGGAGGGGGCCCTTGAAGGATGGAGCAGGGATGGTGCAGAGGGAAGAGCTGCTGAGTTTCATGGG
 GGCTGAGGAGGCAGCCCTGACCCAGCCGAGTGGGCCGGGGAGGAGGGTGGCTGGGCCTCCTTACGGG
 GGAGGAGGGCAGCCCTCAGTGGCAGAAGTGTGCGCTGCTGCTTGAAGTGAAGGAGAAGGAGGAGGAA
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 AGAGCTCCGACAACACAGCCCTGGAGATGCCTGACCGGGAGAACACGTTTGTGGTTAAGGTGGAAGT
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 GCCTGAGCCCAGGACCCCGCCCTGCTACCAGTCCCCGCCCATGACCTCCCTCTGGCCCTGGGACCTC
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 GCTTCCCCCAGAGTTGCCCCCCGCATCCCCATTGAAGAGGGACCCCGAGGAGGACAGTTCATCCCTC
 TCAGCCCCCTACCCTCCCTTGGACTCCGAAACAGCCACAGGGTCTTCTGTCCAGGGGGAGCCAG
 AGGGCGGTGAGGGGGACAGCCCTCTCAGGGTATCCTTGGTTCCACGGGATGCTCTCTCGGCTCAAGG
 TGCACAGTTGGTGTGACTGGCGGCACTGGCTCCACGGTGTCTTCTGGTGCGCCAGAGTGAACAAGG
 CGGGTGAATACGTCTCACCTCAACTCCAGGGCAAGGCCAAGCACCTGCGTTTGTGCTGAACGAGG
 AGGGTCACTGCCGGTCCAGCACCTGTGGTTCCAGTCCATTTTCGATATGCTCGAGCACTCCGGGTGCA
 CCCCATCCCTTTGGAGTCGGGAGGCTCCAGTGTGTTGCTTGTGCTGCTGATGCTCCATCTCCAGCGA
 CAGCAGGGCCGGGAGCAGGCTGGGAGCCATGCGGGGGTGTGCGAGGGAGATGGATGCCACCCCGATGCCT
 CCTGCACCCTCATGCCCTTCGGAGCGAGTACTGTGTAACCGACCACCTCCCA

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG222333 representing NM_015503
 Red=Cloning site Green=Tags(s)

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MNGAPSPEDGASPSSPPLPPPPPPSWREFCESHARAAALDFARRFRLYLASHPQYAGPGAEEAFSRRFAE
LFLQHFEAEVARASGSLSPILAPLSPGAEISPHDLSLESCRVGGLAVLGPSSRSEDLAGLPPSSVSSS
STTSSKPKLKKRFSLRVSVGRSVRGSVRGILQWRGTVDPPSSAGPLETSSGPPVLGGNSNSNSGGGAGTVG
RGLVSDGTSPGERWTHRFRERLRLSRGGALKDAGAGMVQREELL SFGAEEAAPDPAGVGRGGVAGPPSG
GGGQPQWQKCRLLLRSEGEgggsrLEFFVPPKASRPRLSIPCSSITDVRTTTALEMPDRENTFVVKVEG
PSEYIMETVDAQHVKAWSIDIQECLSPGPCPATSPRPMTLPLAPGTSFLTRENTDSLELSCLNHSESLPS
QDLLLLGPSESNDRLSQGAYGGLSDRPSASISPSASIAASHFDSMELLPELPPRIPIIEEGPPAGTVHPL
SAPYPLDTPETATGSFLFQGEPEGGEDQPLSGYPWFHGMRLKAAQLVLTGGTGSHGVLVVRQSETR
RGEYVLTNFQGKAKHLRLSLNEEGQCRVQHLWFQSFIDMLEHFRVHPIPLESGGSSDVVLVSYVPSQR
QQGREQAGSHAGVCEGDGCHPDASCTLMFPGASDCVTDHLP
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_015503

ORF Size: 2013 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_015503.1](#), [NP_056318.1](#)

RefSeq Size: 4876 bp

RefSeq ORF: 2016 bp

Locus ID: 25970

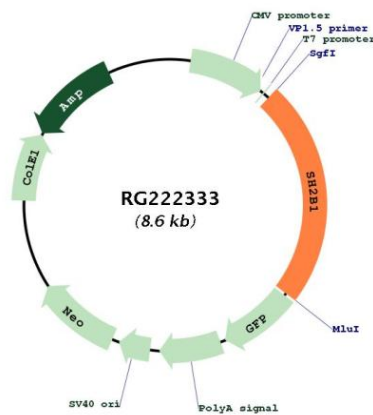
UniProt ID: [Q9NRF2](#)

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 RG222333