

Product datasheet for **RG228844**

SH2D2A (NM_001161443) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SH2D2A (NM_001161443) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SH2D2A
Synonyms:	F2771; SCAP; TSAD; VRAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG228844 representing NM_001161443 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGTTCCTCCGCGCCAGATATGTCCCAAGGGAGTCACGAAGCCCCATCCCAACCTTCAGCACCT
TCCAGATCACAGACATGACCCGAGGAGCTGCCAGAACCTGGGCTACACTGCGGCATCTCCCAGGCCCC
GGAGGCTGCCTCCAGCACAGGAATGCTGAGAGGGCAGAGGAGGTGCCTGGAGAAGGAAGCCTGTTCTG
CAGGCCGAGACCCGGGCTTGGTCCAGAAGACCCAGGCCACTGGCTCCTGCAGCACGGGGCAGCCCTG
CCTGGTCCATGGCTTCATCACCCGGAGGGAGGCAGAGAGGCTGCTGGAGCCCAAGCCTCAGGGGTGCTA
CTTGGTGCAGGTTACGCGAGAGCGCGGTGACCTTCTGTGCTGACTTACAGGAGCCGGACTTGTGCGCCAC
TTCTGCTGGCCAGCTCAGGGACGGGCCACCTGGTGTGGGCGAGGACAGCGCCACGCGCGGCTGC
AGGACCTGCTGCTGCACTACACCGCGCACCCGCTCAGCCCTACGGGGAGACGCTCACCGAGCCCTCGC
CCGACAGACTCCTGAGCCTGCAGGACTTCCCTGAGGACCGAAGAATCAAACCTTTGGAAGCAAAGCCAG
GACCAAACCCAGTACAGCCAATCATCAAACAGGGGCAAGCCCAAGTCCCGATGCAGAAAGAGGGGG
CCGGGGAAGGAGCCCTCCAGCTGCTCAGGCCAAGCCTCCATCCCCGCAAACCTCAGTGCCTCC
AGAAGTCTACACAATCCCTGTTCCACGACACCCCGGCCACGCCCCAAGCCCTCAAATCCTATCTAC
AATGAGCCTGATGAACCCATAGCTTTCTATGCCATGGGCGGGCAGCCCTGGGAAGCCCCAGCAACA
TCTATGTGGAAGTGAAGATGAGGGCTACCCGACCCTTGGGACCCTGTCTACGGAAGAGCTGGT
CAGGCCTGTCCCAGGAGGCCAGAATACAGTGGCTCCCAGCTGCATTCTGAGAACTCTGTGATTGGCAA
GGCCCTCCCTGCCACCCAGCCCAACCCGCTGGAGACACACCCTCCCCACAATCTTCTAGACAGG
TGCTTCAGGACAGAGGACAGGCATGGCTTCCCCTTGGGCTCCTCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAA



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Protein Sequence: >RG228844 representing NM_001161443
 Red=Cloning site Green=Tags(s)

MEFPLAQICPQGSHEAPIPTFSTFQITDMTRRSCQNLGYTAASPQAPEAASSTGNAERAEVPGESLFL
 QAETRAWFKQTQAHWLLQHGAAPAWFHGFI TRREAERLLEPKPQGCYL VRFSESAVTFVL TYRSRTCCRH
 FLLAQLRDGRHVVLGEDSAHARLQDLLLHYTAHPLSPYGETLTEPLARQTPEPAGLSLRTEESNFGSKSQ
 DPNPQYSPIIKQGQAPVPMQKEGAGEKEPSQLLRPKPPIPAKQQLPPEVYTIIPVPRHRPAPRPKPSNPIY
 NEPDEPIAFYAMGRGSPGEAPSNIIYVEVEDEGLPATLGHVPLRKSWSRPVPGGQNTGGSQ LHSNSVIGQ
 GPPLPHQPPP AWRHTLPHNLSRQVLQDRGQAWLPLGPPQ

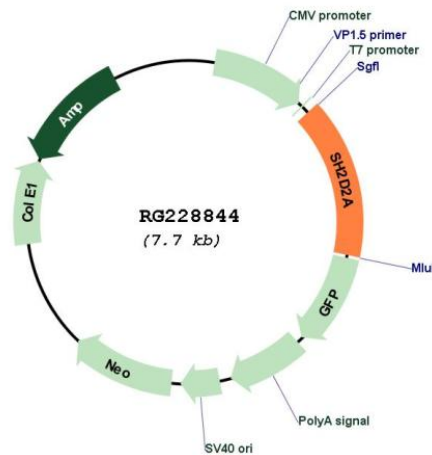
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001161443

ORF Size:	1083 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_001161443.1 , NP_001154915.1
RefSeq Size:	1540 bp
RefSeq ORF:	1086 bp
Locus ID:	9047
Cytogenetics:	1q23.1
Protein Pathways:	VEGF signaling pathway
Gene Summary:	This gene encodes an adaptor protein thought to function in T-cell signal transduction. A related protein in mouse is responsible for the activation of lymphocyte-specific protein-tyrosine kinase and functions in downstream signaling. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2010]