

Product datasheet for **RG228298**

SH2D2A (NM_001161442) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SH2D2A (NM_001161442) 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: >RG228298 representing NM_001161442
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTC~~CCCC~~AAAGCACCTTCCAGATCACAGACATGACCCGCAGGAGCTGCCAGAACCTGGGCTACACTGCGG
 CATCTCCCAGGCCCGGAGGCTGCCTCCAACACAGGGAATGCTGAGAGGGCAGAGGAGGTGCCTGGAGA
 AGGAAGCCTGTTCTGCAGGCCGAGACCCGGGCTTGGTTCAGAAGACCCAGGCCACTGGCTCCTGCAG
 CACGGGGCAGCCCTGCCTGGTTCATGGCTTCATCACCCGGAGGGAGGCAGAGAGGCTGCTGGAGCCCA
 AGCCTCAGGGGTGCTACTTGGTGCGGTTCAGCGAGAGCGCGGTGACCTTCGTGCTGACTTACAGGAGCCG
 GACTTGCTGCCGCACTTCTGCTGGCCAGCTCAGGGACGGGCCACCTGGTGCCTGGGCAGGACAGC
 GCCACGCGCGGCTGCAGGACCTGCTGCTGCACTACACCGCGCACCCGCTCAGCCCTACGGGGAGACGC
 TCACCGAGCCCTCGCCGACAGACTCCTGAGCCTGCAGGACTTCCCTGAGGACCGAAGAATCAAACCTT
 TGAAGCAAAAGCCAGGACCCAAACCCAGTACAGCCAATCATCAAACAGGGGCAAGCCCAAGTCCCG
 ATGCAGAAAGAGGGGGCCGGGAGAGGAGCCCTCCAGCTGCTCAGGCCAAGCCTCCCATCCCGCCA
 AACCTCAGCTGCCCCAGAAGTCTACACAATCCCTGTTCCACGACACCCCGGCCACGCCCAAGCC
 CTCCAATCCTATCTACAATGAGCCTGATGAACCATAGCTTTCTATGCCATGGGCCGGGGCAGCCCTGGG
 GAAGCCCCAGCAACATCTATGTGAAGTGAAGATGAGGGCTACCCGCCACCTTGGGCACCCGTGTC
 TACGGAAGAGCTGGTCCAGGCTGTCCCAGGAGGCCAGAATACAGGTGGCTCCCAGCTGCATTCTGAGAA
 CTCTGTGATTGGCAAGGCCCTCCCTGCCACACAGCCCAACCCGCTGGAGACACACCTCCCCCAC
 AATCTTTCTAGACAGGTGCTTCAGGACAGAGGACAGGCATGGCTTCCCCTTGGCCTCCTCAG

AC**CGT**ACGCGGCCGCTCGAG - GFP Tag - GTTAA



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Protein Sequence: >RG228298 representing NM_001161442
 Red=Cloning site Green=Tags(s)

MSPSTFQITDMTRRSCQNLGYTAASQAPEAASNTGNAERAEVPGEGSLFLQAETRAWFQKTQAHWLLQ
 HGAAPAWFHGFI TRREAERLLEPKPQGCYL VRFSESAVTFVLTYRSRTCCRHFLLAQLRDGRHVVLGEDS
 AHARLQDLLLHYTAHPLSPYGETLTEPLARQTPEPAGLSLRTEESNFGSKSQDPNPQYSP I IKQGQAPVP
 MQKEGAGEKEPSQLLRPKPP I PAKPQLPPEVYTI PVPRHRPAPRPKPSNP I YNEPDEPIAFYAMGRGSPG
 EAPSNIYVEVEDEGLPATLGHVLRKSWSRPVPGGQNTGGSQLHSENSVIGQGPPLPHQPPPAWRHTLPH
 NLSRQVLQDRGQAWLPLGPPQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001161442

ORF Size: 1113 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_001161442.2](#)

RefSeq Size: 1630 bp

RefSeq ORF: 1116 bp

Locus ID: 9047

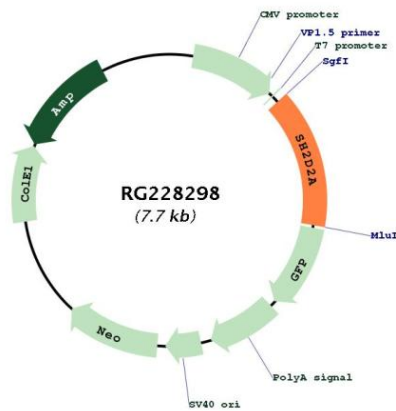
UniProt ID: [Q9NP31](#)

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]

Product images:



Circular map for RG228298