

Product datasheet for **SC320782**

SH2D2A (NM_003975) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SH2D2A (NM_003975) Human Untagged Clone
Tag:	Tag Free
Symbol:	SH2D2A
Synonyms:	F2771; SCAP; TSAD; VRAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_003975.2
 CGGGGCCAGGGTGAGAGGAGAGATGATGAGTTGCTGAGTGTGCACACCTTCCGGAACAC
 ATACACACACCCTGCTCTGGGATCCCTTGTGAGGCTGCCCTCATGGAGTTCCCCCTGGCC
 CAGATATGTCCCCAAGGGAGTACAGAAGCCCCATCCCAACCTTCAGCACCTTCCAGATC
 ACAGACATGACCCGCAGGAGCTGCCAGAACCTGGGCTACACTGCGGCATCTCCCCAGGCC
 CCGGAGGCTGCCTCCAGCACAGGGAATGCTGAGAGGGCAGAGGAGGTGCCTGGAGAAGGA
 AGCCTGTTCTCGCAGGCCGAGACCCGGGCTTGGTCCAGAAGACCCAGGCCCACTGGCTC
 CTGCAGCACGGGGCAGCCCTGCCTGGTCCATGGCTTCATCACCCGGAGGGAGGCAGAG
 AGGCTGCTGGAGCCCAAGCCTCAGGGGTGCTACTTGGTGCAGGTTGAGCGAGCGCGGTG
 ACCTTCGTGCTGACTTACAGGAGCCGACTTGCTGCCGCCACTTCTGCTGGCCAGCTC
 AGGGACGGGCGCCACGTGGTGTGGGCGAGGACAGCGCCACGCGCGGCTGCAGGACCTG
 CTGCTGCACTACCCGCGCACCCGCTCAGCCCCTACGGGGAGACGCTCACCGAGCCCTC
 GCCCGACAGACTCCTGAGCCTGCAGGACTTCCCTGAGGACCGAAGAATCAAACCTTGGGA
 AGCAAAAGCCAGGACCCAAACCCCAAGTACAGCCCAATCATCAAACAGGGGCAAGCCCCA
 GTCCCGATGCAGAAAGAGGGGGCGGGGAGAAGGAGCCCTCCAGCTGCTCAGGCCCAAG
 CCTCCATCCCCGCCAAACCTCAGCTGCCCCAGAAAGTCTACACAATCCCTGTTCCACGA
 CACCGCCCGCCCAAGCCCAAGCCCTCCAATCCTATCTACAATGAGCCTGATGAACCC
 ATAGCTTTCTATGCCATGGGCGGGGCAGCCCTGGGGAAGCCCCAGCAACATCTATGTG
 GAAGTGAAGATGAGGGCCTACCCGCCACCCTTGGGCACCCTGTCTACGGAAGAGCTGG
 TCCAGGCTGTCCAGGAGGCCAGAATACAGGTGGCTCCCAGCTGCATTCTGAGAACTCT
 GTGATTGGGCAAGGCCCTCCCCTGCCCAACAGCCCCACCCGCTGGAGACACACCCTC
 CCCCACAATCTTTCTAGACAGGTGCTTCAGGACAGAGGACAGGCATGGCTTCCCCTTGGG
 CCTCCTCAGTAGGCGGTCTGGCCTGACCCCAACAAAGAAGCCTGGAGGTGAGAGAAGCA
 AATGCGGAGCCTGCTCCCTCCTAAGAAGATCCCAAGAATCCAATGGCTCAGTCTTGGTG
 ATCTAAGACAGCAAGAAGTGTGCAAGGAGGGCCCTGTTAGCTCCCACTGCTGTTTTC
 TCCTCCTGGAGTCTAATTTCTTGGCCCTCTGAGCCTTTTGTGCTGGGCCCTGGTCCAA
 TGCTGCTGTTGTCTGAGGAATGGTTTGGTGAACAGATGTTAGAACTTGTGTTGTTGATT
 CTTGTCTGGCTAATAATCATCACCAACTGCCTTCTCCTACAGGGAAAAAAAAAAAAAAAAA
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_003975

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_003975.2](#), [NP_003966.1](#)

RefSeq Size: 1651 bp

RefSeq ORF: 1170 bp

Locus ID: 9047

UniProt ID: [Q9NP31](#)

Cytogenetics: 1q23.1

Domains: SH2

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]
Transcript Variant: This variant (2) uses an alternate in-frame splice site in the coding region compared to variant 1. The encoded isoform (2) is shorter than isoform 1. Variants 2 and 5 encode the same isoform (2).