

Product datasheet for RC228844

SH2D2A (NM_001161443) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SH2D2A (NM_001161443) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: SH2D2A
Synonyms: F2771; SCAP; TSAD; VRAP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC228844 representing NM_001161443
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACCCGAGGAGCTGCCAGAACCTGGGCTACACTGCGGCATCTCCCCAGGCCCCGGAGGCTGCCTCCA
 ACACAGGGAATGCTGAGAGGGCAGAGGAGGTGCCTGGAGAAGGAAGCCTGTTCTGCAGGCCGAGACCCG
 GGCTTGGTTCCAGAAGACCCAGGCCCACTGGCTCCTGCAGCACGGGGCAGCCCTGCCTGGTTCCATGGC
 TTCATACCCGGAGGGAGGCAGAGAGGTGCTGGAGCCCAAGCCTCAGGGGTGCTACTTGGTGCGGTTCA
 GCGAGAGCGCGGTGACCTTCGTGCTGACTTACAGGAGCCGGACTTGTGCGGCCACTTCTGCTGGCCCA
 GCTCAGGGACGGGCGCCACGTGGTGTGGGCGAGGACAGCGCCACGCGCGGCTGCAGGACCTGTGCTG
 CACTACACCGCGCACCCGCTCAGCCCTACGGGAGACGCTCACCGAGCCCTCGCCGACAGACTCCTG
 AGCCTGCAGGACTTTCCTGAGGACCGAAGAATCAAATTTGGAAGCAAAGCCAGGACCCAAACCCCA
 GTACAGCCCAATCATCAAACAGGGGCAAGCCCAAGTCCCGATGCAGAAAGAGGGGGCCGGGAGAAGGAG
 CCCTCCAGCTGCTCAGGCCAAGCCTCCATCCCCGCAAACTCAGCTGCCCCAGAAGTCTACACAA
 TCCCTGTTCCACGACACCGCCCGGCCACGCCCAAGCCCTCCAATCTATCTACAATGAGCCTGATGA
 ACCCATAGCTTTCTATGCCATGGGCCGGGCGAGCCCTGGGAAGCCCCAGCAACATCTATGTGGAAGTG
 GAAGATGAGGGCCTACCCGCCACCCTTGGCACCCCTGTCTACGGAAGAGCTGGTCCAGGCCTGTCCCA
 GAGGCCAGAATACAGGTGGCTCCAGCTGCATTCTGAGAACTCTGTGATTGGGCAAGGCCCTCCCTGCC
 CCACCAGCCCCACCCGCTGGAGACACACCCTCCCCACAATCTTTCTAGACAGGTGCTTCAGGACAGA
 GGACAGGCATGGCTTCCCTTGGGCTCCTCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RC228844 representing NM_001161443
Red=Cloning site Green=Tags(s)

MTRRSCQNLGYTAASPQAPEAASNTGNAERAEVPGESLFLQAETRAWFQKTQAHWLLQHGAAPAWFHG
 FITRREAERLLEPKPQGCYLVRFSSEAVTFVLTYRSRTCCRHFLLAQLRDGRHVVLGEDSAHARLQDLLL
 HYTAHPLSPYGETLTEPLARQTPEPAGLSLRTEESNFGSKSQDPNPQYSP^{*}IIKQGQAPVPMQKEGAGEKE
 PSQLLRPKPPIPAKPQLPPEVYTI^{*}VPVPRHRPAPRPKPSNPIYNEPDEPIAFYAMGRGSPGEAPSNIYVEV
 EDEGLPATLGHPVLRKSWSRPVPGGQNTGGSQLHSENSVIGQGPPLPHQPPPAWRHTLPHNL^{*}SRQVLQDR
 GQAWLPLGPPQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

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:

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_001161443.2](#)

RefSeq Size: 1540 bp

RefSeq ORF: 1086 bp

Locus ID: 9047

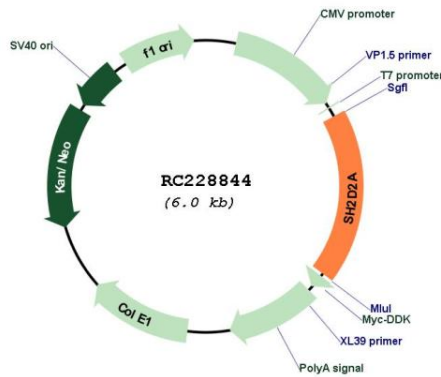
Cytogenetics: 1q23.1

Protein Pathways: VEGF signaling pathway

MW: 39.8 kDa

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 RC228844