

Product datasheet for **SC118690**

SH2D1A (NM_002351) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: SH2D1A (NM_002351) Human Untagged Clone
Tag: Tag Free
Symbol: SH2D1A
Synonyms: DSHP; EBVS; IMD5; LYP; MTCP1; SAP; SAP/SH2D1A; XLP; XLPD; XLPD1
Mammalian Cell Selection: None
Vector: pCMV6-XL5
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_002351 edited
ATGGACGCAGTGGCTGTGTATCATGGCAAATCAGCAGGGAAACCGCGAGAAGCTCCTG
CTTGCCACTGGGCTGGATGGCAGCTATTTGCTGAGGGACAGCGAGAGCGTGCCAGGCGTG
TACTGCCTATGTGTGCTGTATCACGGTTACATTTATACATACCGAGTGTCCAGACAGAA
ACAGGTTCTTGGAGTGCTGAGACAGCACCTGGGGTACATAAAAAGATATTTCCGGAAAATA
AAAAATCTCATTTAGCATTTCAGAAGCCAGATCAAGGCATTGTAATACCTCTGCAGTAT
CCAGTTGAGAAGAAGTCTCAGCTAGAAGTACACAAGGTACTACAGGGATAAGAGAAGAT
CCTGATGTCTGCCTGAAAGCCCCATGA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_002351 unedited
GGTCAAAATTTGTAACGACTCATATAGGGCGGCCGGAATTCGCACGAGGGAGTCAGG
TGGTTGACTTGTGCCTGGCTGCAGTAGCAGCGGCATCTCCCTTGACAGTTCTCCTCCTC
GGCCTGCCAAGAGTCCACCAGGCCATGGACGCAGTGGCTGTGTATCATGGCAAATCAG
CAGGGAAACCGCGAGAAGCTCCTGCTTCCACTGGGCTGGATGGCAGCTATTTGCTGAG
GGACAGCGAGAGCGTGCCAGGCGTGTACTGCCTATGTGTGCTGTATCACGGTTACATTTA
TACATACCGAGTGTCCAGACAGAAACAGGTTCTTGGAGTGCTGAGACAGCACCTGGGGT
ACATAAAAAGATATTTCCGGAAAATAAAAAATCTCATTTAGCATTTCAGAAGCCAGATCA
AGGCATTGTAATACCTCTGCAGTATCCAGTTGAGAAGAAGTCTCAGCTAGAAGTACACA
AGGTAACAGGGATAAGAGAAGATCCTGATGTCTGCCTGAAAGCCCCATGAAGAANAAT
AAAACACCTTGTACTTTATTTTCTATAATTTAAATATATGCTAAGTCTTATATATTGTAG
ATAATACAGTTCCGGTGGCTACAAATGCATTTCTAAAGCCATTGTAGTCTGTAATGGAA
GCATCTAGCATGTCGTCAAAGCTGANATGGACTTTTGTACATAGTGAGGAGCTTNTGAAC
GAGGATTGGGAAAAAGNTATTTCCCGTAGTATTTTTCAGTTATTATATTTACAAATGGGAA
ACAAANGGATNATGAATACTTTATAAAGGATTAATGTCAATTTCTGNNCCAATATAATAA
AAATATCTCCATTTTTTGTGAAAAGCTTCATTTTTAGTAAAATATTTTTATAGCTACT
AATTTTAAAANTGTCTGCNNTGATGATGGG



[View online »](#)

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_002351 unedited NTTCTACTTGNACGCGGCCGCATTCTANGATCGAGTTTTTTTTTTTTTTTTTAAAGCTT TCAAACACTTTATTTAAATGTGAAAGACTTGATGATTCAAAAAGCTTTTTTCAAAA AAGGCTCTTGGAAGTGAACATGCAACATAATTCATATGTTTAGGATTATCCAGAATGA ACACATTATAGAGTTAAAATTAGTTACGCCTATTACAATTTAACTCAAGCCATAAATT AAAAATTATTAACCTATGCAACTTATTATGAAAGTAGGATTTTTAAATTCCTTTACAAG TTCATGTGATGCTTTTACCTCAAGAAATGGTAAACCACCATAATGCATTACTCAGGCCA CACTCCACTTTTGTACTCCCACGGCATCCATATTAATGCTCAGAAATCAGGTCTTGCCA GTACATGGAGAATAGCTCTGTCTCTCAGCAGTTCACTAATTAACCAAGTTCACCAACA CCCATACACAATCCAGAATCCCAGTTATTATTTTACAGTGAAGCTTAGCCTTTTCATAT GGCCCATGGACCAGAGTATTTGCACTGACCTATCTATCTGCCTCTAAAGACCAGATCTAC CTACACACGGGGAACCTCGCTTATCATGTACTTATCAACTTTCATTGGTATTTTTCTT GGCTTTTATTGGTATTNTCTTTCCTGCTTTTATCGNTATTTTCTTTCCTGCTTTTA TCGNTATTGTTTTCTCGTCCACAAGACAGTGAAGTGAAGCAGGACCAGGTGTTTTTAC TTCTATGCCCTCAGCGCCCTATTATGTTNGTGTAGTGAATGAANTCTGTGAGCCCTGTNG CAAAGTGACATANTATCAATCACAAAATCACAAAATATTAATGTGAGAAGAAAATGCC CATAAAATCTGTATCTCGTGGTAGTTTCAATCACTTG
Restriction Sites:	NotI-NotI
ACCN:	NM_002351
Insert Size:	2390 bp
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).
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_002351.1 , NP_002342.1
RefSeq Size:	2530 bp
RefSeq ORF:	387 bp
Locus ID:	4068
UniProt ID:	O60880
Cytogenetics:	Xq25
Domains:	SH2
Protein Families:	Druggable Genome

Protein Pathways: Natural killer cell mediated cytotoxicity

Gene Summary: This gene encodes a protein that plays a major role in the bidirectional stimulation of T and B cells. This protein contains an SH2 domain and a short tail. It associates with the signaling lymphocyte-activation molecule, thereby acting as an inhibitor of this transmembrane protein by blocking the recruitment of the SH2-domain-containing signal-transduction molecule SHP-2 to its docking site. This protein can also bind to other related surface molecules that are expressed on activated T, B and NK cells, thereby modifying signal transduction pathways in these cells. Mutations in this gene cause lymphoproliferative syndrome X-linked type 1 or Duncan disease, a rare immunodeficiency characterized by extreme susceptibility to infection with Epstein-Barr virus, with symptoms including severe mononucleosis and malignant lymphoma. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).