

SH2D1A cDNA

Catalog Number: ATGD0106

PRODUCT INFORMATION

Catalog number

ATGD0106

Product type

cDNA

Species

Human

NCBI Accession No.

NP_002342.1

Alternative Names

DSHP, EBVS, IMD5, LYP, MTCP1, SAP, SAP/SH2D1A, XLP, XLPD, XLPD1

mRNA Refseq

NM_002351.4

OMIM

300490

Chromosome location

Xq25

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

387bp

Preparation before usage

1. Centrifuge at 7000rpm for 1 minute.
2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA. Each tube contains approximately 10ug of lyophilized plasmid.

Vector description

This shuttle vector contains the complete ORF. It is inseted BamH I to Xho I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

Cloning Vector

pATGen (puc19-derived cloning vector)

General Description

SH2D1A cDNA

Catalog Number: ATGD0106

SH2D1A 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.

DATA

Sequence nucleotides

```
ATGGACGCAGTGGCTGTGTATCATGGCAAATCAGCAGGGAAACCGGCGAGAAGCTCCTGCTTGCCACTGGGCTGGATGG
CAGCTATTTGCTGAGGGACAGCGAGAGCGTGCCAGGCGTGTACTGCCTATGTGTGCTGTATCACGGTTACATTTATACATAC
CGAGTGTCCCAGACAGAAACAGGTTCTTGGAGTGCTGAGACAGCACCTGGGGTACATAAAAGATATTTCCGGAAAATAAAA
AATCTCATTTCAGCATTTTCAGAAGCCAGATCAAGGCATTGTAATACCTCTGCAGTATCCAGTTGAGAAGAAGTCCTCAGCTA
GAAGTACACAAGGTACTACAGGGATAAGAGAAGATCCTGATGTCTGCCTGAAAGCCCCATGA
```

Transaction Sequence

```
MDAVAVYHGK ISRETGEKLL LATGLDGSYL LRDSSEVPGV YCLCVLYHGY IYTYRVSQTE TGSWSAETAP GVHKRYFRKI
KNLISAFQKP DQGIWIPLQY PVEKKSSARS TQGTTGIRED PDVCLKAP
```