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

ATGGACGCAGTGGCTGTGTATCATGGCAAAATCAGCAGGGAAACCGGCGAGAAGCTCCTGCTTGCCACTGGGCTGGATGG
CAGCTATTTGCTGAGGGACAGCGAGAGCGTGCCAGGCGTGTACTGCCTATGTGTGCTGTATCACGGTTACATTTATACATAC
CGAGTGTCCCAGACAGAAACAGGTTCTTGGAGTGCTGAGACAGCACCTGGGGTACATAAAAGATATTTCCGGAAAATAAAA
AATCTCATTTCAGCATTTCAGAAGCCAGATCAAGGCATTGTAATACCTCTGCAGTATCCAGTTGAGAAGAAGTCCTCAGCTA
GAAGTACACAAGGTACTACAGGGATAAGAGAAGATCCTGATGTCTGCCTGAAAGCCCCATGA

Transaction Sequence

MDAVAVYHGK ISRETGEKLL LATGLDGSYL LRDSESVPGV YCLCVLYHGY IYTYRVSQTE TGSWSAETAP GVHKRYFRKI
KNLISAFQKP DQGIVIPLQY PVEKKSSARS TQGTTGIRED PDVCLKAP