

Product datasheet for **RC205069**

SH2D1B (NM_053282) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SH2D1B (NM_053282) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SH2D1B
Synonyms:	EAT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC205069 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATCTGCCTTACTACCATGGACGTCTGACCAAGCAAGACTGTGAGACCTTGCTGCTCAAGGAAGGGG
TGGATGGCAACTTTCTTTAAGAGACAGCGAGTCGATACCAGGAGTCCTGTGCCTCTGTCTCGTTTAA
AAATATTGTCTACACATACCGAATCTTCAGAGAGAAACACGGGTATTACAGGATACAGACTGCAGAAAGT
TCTCCAAAACAGGTCTTCCAAGCCTAAAGGAAGTCTCCAAATTTGAAAACCAAATCAGGGGATGG
TGGTTCACCTTTTAAAGCCAATAAAGAGAACCAGCCCCAGCTTGAGATGGAGAGGATTGAAATTAGAGTT
GGAACATTTGTGAACAGTAACAGCGATTATGTGGATGTCTTGCCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC205069 protein sequence Red=Cloning site Green=Tags(s)
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MDLPYYHGRLTKQDCETLLLLKEGV DGNFLLRDSEIPGVLCLCVSFKNIVYTYRIFREKHGYRIQTAEQ
SPKQVFP SLKELISKFEKPNQGMVVHLLKPIKRTSPSLRWRGLKLELET FVNSNSDYVDVLP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6438_g03.zip

Restriction Sites: SgfI-MluI



[View online »](#)

Cloning Scheme:


ACCN: NM_053282

ORF Size: 396 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_053282.5](#)

RefSeq Size: 2553 bp

RefSeq ORF: 399 bp

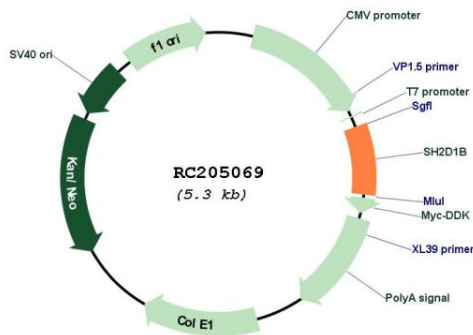
Locus ID: 117157

UniProt ID: [O14796](#)

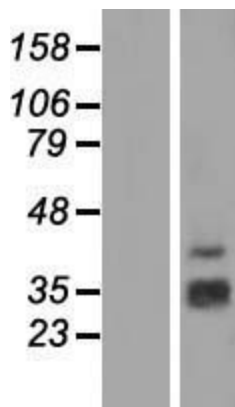
Cytogenetics: 1q23.3
Protein Pathways: Natural killer cell mediated cytotoxicity
MW: 15.3 kDa

Gene Summary: By binding phosphotyrosines through its free SRC (MIM 190090) homology-2 (SH2) domain, EAT2 regulates signal transduction through receptors expressed on the surface of antigen-presenting cells (Morra et al., 2001 [PubMed 11689425]).[supplied by OMIM, Mar 2008]

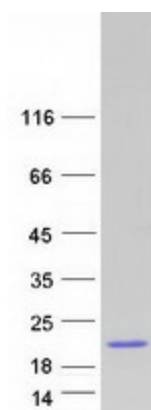
Product images:



Circular map for RC205069



Western blot validation of overexpression lysate (Cat# [LY409300]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205069 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SH2D1B protein (Cat# [TP305069]). The protein was produced from HEK293T cells transfected with SH2D1B cDNA clone (Cat# RC205069) using MegaTran 2.0 (Cat# [TT210002]).