

## Product datasheet for **RG205069**

### SH2D1B (NM\_053282) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** SH2D1B (NM\_053282) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** SH2D1B  
**Synonyms:** EAT2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG205069 representing NM\_053282  
**Red**=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTGTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGATCTGCCTTACTACCATGGACGTCTGACCAAGCAAGACTGTGAGACCTTGCTGCTCAAGGAAGGGG  
TGGATGGCAACTTTCTTTTAAGAGACAGCGAGTCGATACCAGGAGTCCTGTGCCTCTGTGTCTCGTTAA  
AAATATTGTCTACACATACCGAATCTTCAGAGAGAAACACGGGTATTACAGGATACAGACTGCAGAAGGT  
TCTCCAAACAGGTCTTCCAAGCCTAAAGGAAGTATCTCCAAATTTGAAAAACCAATCAGGGGATGG  
TGGTTCACCTTTTAAAGCCAATAAGAGAACAGCCCCAGCTTGAGATGGAGAGGATTGAAATTAGAGTT  
GGAACATTTGTGAACAGTAACAGCGATTATGTGGATGTCTTGCCT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG205069 representing NM\_053282  
**Red**=Cloning site **Green**=Tags(s)

MDLPYYHGRLTKQDCETLLKKEGVDFNLLRDSIPGVLCVLSFKNIVYTYRIFREKHGYRIQTAE  
SPKQVFPSPKELISKFEKPNQGMVHLLKPIKRTSPSLRWRGLKLELETFVNSNSDYVDVLP

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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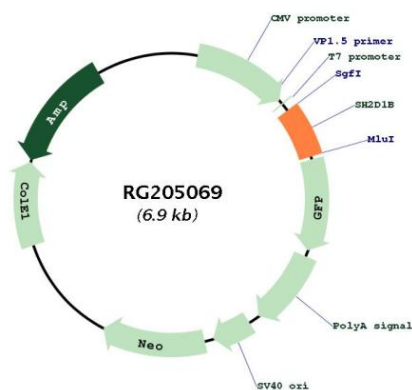
Cloning Scheme:



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. <a href="#">More info</a>
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:	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
RefSeq:	<a href="#">NM_053282.5</a>
RefSeq Size:	2553 bp
RefSeq ORF:	399 bp

Locus ID:	117157
UniProt ID:	<a href="#">O14796</a>
Cytogenetics:	1q23.3
Protein Pathways:	Natural killer cell mediated cytotoxicity
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 RG205069