

## Product datasheet for **RG228319**

### SH2D2A (NM\_001161441) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** SH2D2A (NM\_001161441) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** SH2D2A  
**Synonyms:** F2771; SCAP; TSAD; VRAP  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG228319 representing NM\_001161441  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAGTTCCTCCGCGCCAGATATGTCCCAAGGGAGTCACGAAGCCCCATCCCAACCTTCAGCACCT  
 TCCAGATCACAGACATGACCCGAGGAGCTGCCAGAACCTGGGCTACACTGCGGCATCTCCCAGGCCCC  
 GGAGGCTGCCTCAACACAGGGAATGCTGAGAGGGCAGAGGAGGTGCCTGGAGAAGGAAGCCTGTTCTG  
 CAGGCCGAGACCCGGGCTTGGTTCAGAAGACCCAGGCCACTGGCTCCTGCAGCACGGGCAGCCCTG  
 CCTGGTCCATGGCTTCATCACCCGGAGGGTTCGGCCCCCTCTCCTCGTCACCCACAGGGAGGCAGAGAG  
 GCTGCTGGAGCCCAAGCCTCAGGGGTGCTACTTGGTGCAGGTTAGCGAGAGCGCGGTGACCTTCGTGCTG  
 ACTTACAGGAGCCGACTTGTGCGCCACTTCTGCTGGCCAGCTCAGGGACGGGCGCCACGTGGTGC  
 TGGGCGAGGACAGCGCCACGCGCGGCTGCAGGACCTGCTGCTGCACTACCCGCGCACCCGCTCAGCCC  
 CTACGGGGAGACGCTCACCGAGCCCTCGCCGACAGACTCCTGAGCCTGCAGGACTTTCCTGAGGACC  
 GAAGAATCAAATTTGGAAGCAAAGCCAGGACCCAAACCCCAAGTACAGCCCAATCATCAAACAGGGGC  
 AAGCCCCAGTCCCGATGCAGAAAGAGGGGGCCGGGAGAAGGAGCCCTCCAGCTGCTCAGGCCAAAGCC  
 TCCCATCCCCGCCAAACCTCAGCTGCCCCAGAAGTCTACACAATCCCTGTTCCACGACACCCGCCGCC  
 CCACGCCCAAGCCCTCAATCCTATCTACAATGAGCCTGATGAACCCATAGCTTCTATGCCATGGGCC  
 GGGCAGCCCTGGGAAGCCCCCAGCAACATCTATGTGGAAGTGAAGATGAGGGCTACCCGCCACCCT  
 TGGGCACCCTGTCTACGGAAGAGCTGGTCCAGGCTGTCCAGGAGGCCAGAATACAGGTGGCTCCAG  
 CTGCATTCTGAGAACTCTGTGATTGGGCAAGGCCCTCCCCTGCCACCAGCCCCACCCGCTGGAGAC  
 ACACCCTCCCCACAATCTTTCTAGACAGGTGCTCAGGACAGAGGACAGGCATGGCTTCCCCTGGGCC  
 TCCTCAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG228319 representing NM\_001161441  
 Red=Cloning site Green=Tags(s)

MEFPLAQICPQGSHEAPIPTFSTFQITDMTRRSCQNLGYTAASPOAPEAASNTGNAERAEVPGEGSLFL  
 QAETRAWFKQTQAHWLLQHGAAPAWFHGFITRRVRPPLSVTHREAERLLEPKPQGCYLVRFSSEAVTFVL  
 TYRSRTCCRHFLLAQLRDGRHVVLGEDSAHARLQDLLLHYTAHPLSPYGETLTEPLARQTPPEAGLSLRT  
 EESNFGSKSQDPNPQYSPIIKQGGAPVPMQKEGAGEKPSQLLRPKPPIPAKPQLPPEVYTIIPVPRHRPA  
 PRPKPSNPIYNEPDEPIAFYAMGRGSPGEAPSNIYVEVEDEGLPATLGHPVLRKSWSRPVPGGQNTGGSQ  
 LHSNSVIGQGPPLPHQPPPAPWRHTLPHNLSRQVLQDRGQAWLPLGPPQ

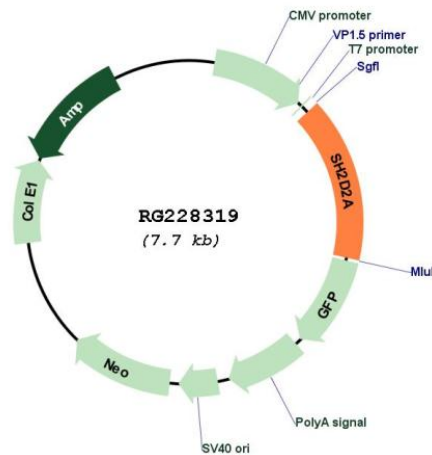
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001161441

<b>ORF Size:</b>	1197 bp
<b>OTI Disclaimer:</b>	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>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<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>
<b>RefSeq:</b>	<a href="#">NM_001161441.1</a> , <a href="#">NP_001154913.1</a>
<b>RefSeq Size:</b>	1691 bp
<b>RefSeq ORF:</b>	1200 bp
<b>Locus ID:</b>	9047
<b>Cytogenetics:</b>	1q23.1
<b>Protein Pathways:</b>	VEGF signaling pathway
<b>Gene Summary:</b>	This gene encodes an adaptor protein thought to function in T-cell signal transduction. A related protein in mouse is responsible for the activation of lymphocyte-specific protein-tyrosine kinase and functions in downstream signaling. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2010]