

Product datasheet for **RG211999**

SH2D5 (NM_001103160) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SH2D5 (NM_001103160) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SH2D5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG211999 representing NM_001103160 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCATGCCCTGAGGCGCATCTACTCCACCTGGTGCCCTGCCGACTGCCAGTTGCCTTCATGG
CTCGAAACCCACGGAGCCAGCCAGCAAGCTCTTCTGCCACCTCTTTGTGGGCAGCCAGCCAGGAGAGGT
CCAGATCCTGCACCTGCTGCTGTGCCGCTTTTCCAGCTGGCTTACCTCTGCAGCACCCTGAGGAGCGG
GCACAGCCAGAGCCCTGCCAGGGCCACAGGGAGGTGCCCTGAAGCCACTGTCCAGCTCTGGGGGCC
TGGTCCGGGAGCCCTTCGGCCGTGATCAGCTCTCAGAACGTCATGCCCTGGTCTCCTTCGGCGCT
GCCAGCAGAGGGGCTGGTGGCAGTGGGAAGGAGCTGCCAGAGTCGGAAGGCCGTGCCCGCATGCCCGC
CTGGGAATCCCTACTGCTCGCCACGCTGGTGCGAAGAAGGCCATTCCGAGCAAGGTGATCCGCTCGG
GGGCTACCGGGCTGCACCTATGAGACCCAGCTGCAGCTGTCCGCTCGGGAGGCCTTCTGCCGCATG
GGAGGCATGGCCCGGGTCTGGTGGCCACTCGTGCCTGGTGGAGAGCGAGGGCAGCCTGACGGAGAAC
ATCTGGGCTTCGCTGGCATCTCCAGGCCCTGTGCCCTGGCCCTGTTGCGGAGAGACGTGCTGGGGCCT
TCCTGCTGTGGCCTGAGCTGGGTGCTAGCGCCAGTGGTGTCTGTCCGTGCGCACGCAGTGGCGTGGT
GCCCCACAGGTCTTCCGAACCACTGGGCCGCTACTGCTTGGAGCACCTGCCGCAGAGTTCCCCAGC
CTGGAGGCTCTGGTGGAGAACCACGCGTTACTGAACGTAGCCTCTTCTGTCCCCTGCACATGGGCCGCC
TGAACCCACCTACGAGGAGCAGGACTGTGGGCCCCAGGCAGGCCGCCCGGACTCTCCGGCCCTCAG
CCATGCCAAGTCCGAGGCAGAGCTGCAGGGCCTGGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG211999 representing NM_001103160
Red=Cloning site Green=Tags(s)

MAHALRRILYSTWCPADCQFAFMARNPRSPASKLFCHLFVGSQPGEVQILHLLLCRSFQLAYLLQHPPEER
 AQPEPCPGPTGEVPLKPLSSSSGGLVREPFGRDQLSQNVHALVSRRLPAEGLVSGKELPESEGRARHAR
 LGNPYCSPTLVRKKAIRSKVIRSGAYRGCTYETQLQLSAREAFPAWEAWPRGPGGHSCLVESEGLTEN
 IWAFAGISRPCALALLRRDVLGAFLLWPELGASGQWCLSVRTQCGVVPHQVFRNHLGRYCLEHLPAEFPS
 LEALVENHAVTERS LFCPLDMGRNLNPTYEEQDCGPPGRPRTLRLSHAKSEAELQGLG

TRTRPLE - GFP Tag - V

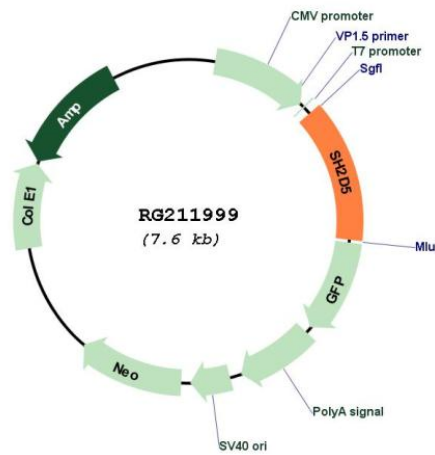
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001103160

ORF Size: 1017 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:	<ol style="list-style-type: none">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_001103160.2
RefSeq Size:	3705 bp
RefSeq ORF:	1020 bp
Locus ID:	400745
UniProt ID:	Q6ZV89
Cytogenetics:	1p36.12
Gene Summary:	May be involved in synaptic plasticity regulation through the control of Rac-GTP levels. [UniProtKB/Swiss-Prot Function]