

Product datasheet for **RG211583**

SH2D5 (NM_001103161) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SH2D5 (NM_001103161) 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:	>RG211583 representing NM_001103161 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGAAGGCGGGGCTGGGGCCGAGGGCCTCTGACTGCGGGCTGGCCCTCACCGGCCAGGTGCA
TCACCAAGTTGCCAGTACGTGGGCTCCTCCCTGTGGATGACCTGGACACCCAGGAGAGCGTGTGGCT
GGTGCAGCAGCAGCTGTGGGCGCTGAAGGACTGTCCCGACGCCGGGCGTCATCCTGAAATTCAGCCTT
CAGGGTCTCAAGATCTACAGCGGGGAGGGTGAGGTGCTGCTGATGGCTCATGCCCTGAGGCGCATACTCT
ACTCCACTGGTGCCCTGCCACTGCCAGTTTGCCTTCATGGCTCGAAACCCAGGAGCCAGCCAGCAA
GCTCTTCTGCCACCTCTTTGTGGGAGCCAGCCAGGAGAGGTCCAGATCCTGCACCTGCTGCTGTGCCGC
TCTTTCCAGCTGGCTTACCTCTTGCAGCACCTGAGGAGCGGGCACAGCCAGAGCCTGCCAGGGCCCA
CAGGGGAGGTGCCCTGAAGCCACTGTCCAGCTCTGGGGCCTGGTGCAGGAGCCCTTCGGCCGTGATCA
GCTCTCTCAGAACGTCCATGCCCTGGTCTCCTTTCGGCGGCTGCCAGCAGAGGGGCTGGTGGCAGTGGG
AAGGAGCTGCCAGAGTCGGAAGGCCGTGCCGCCATGCCGCCTGGGGAATCCCTACTGCTGCCACGC
TGGTGCAGCAAGAAGGCCATTTCAGCAAGGTGATCCGCTCGGGGCTACCGCGGCTGCACCTATGAGAC
CCAGCTGCAGCTGTCGGCTCGGAGGCCCTTCTGCCGCATGGGAGGCATGGCCCCGGGGTCTGGTGGC
CACTCGTGCCTGGTGGAGAGCGAGGGCAGCCTGACGGAGAATCTGGGCCTTCGCTGGCATCTCCAGGC
CCTGTGCCCTGGCCCTGTTGCGGAGAGAGCTGCTGGGGGCTTCTGCTGTGGCCTGAGCTGGGTGCTAG
CGCCAGTGGTGTCTGTCCGTGCCACGCAGTGCAGGCGTGGTGGCCACCAGGTCTTCGGAAACCCTG
GGCCGCTACTGCTTGAGCACCTGCCGGCAGAGTTCGCCAGCCTGGAGGCTCTGGTGGAGAACCACGCGG
TTACTGAACGTAGCCTCTTGTCCCCTCGACATGGGCGCCTGAACCCACCTACGAGGAGCAGGACTG
TGGGCCCCAGGCAGGCCGCCCGGACTCTCCGGCCCCAGCCATGCCAAGTCCGAGGCAGAGCTGCAG
GCCTGGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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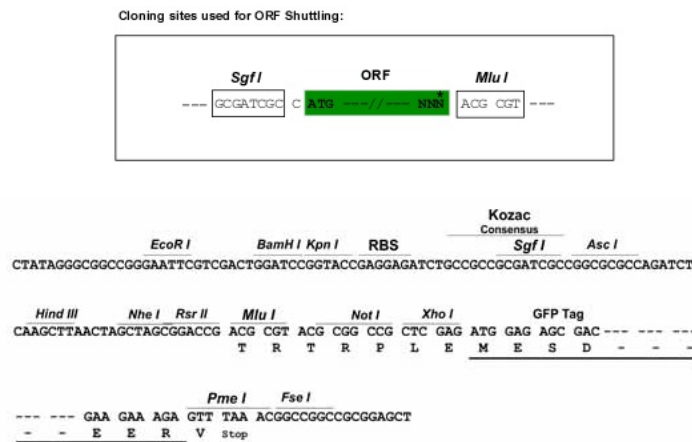
Protein Sequence: >RG211583 representing NM_001103161
Red=Cloning site Green=Tags(s)

MQKAGAGRRASDCGLAPHRPRCITKFAQYVGSFPVDDLDTQESVWL VQQQLWALKDCPRRRAVILKFSL
 QGLKIYSGEGEVLLMAHALRRI LYSTWCPADCQFAFMARNPRSPASKLFCHLFVGSQPGEVQILHLLL CR
 SFQLAYLLQHPEERAQPEPCPGPTGEVPLKPLSSSSGGLVREPFGRDQLSQNVHALVSFRRLLPAEGLVSGG
 KELPESEGRARHARLGNPYCSPTLVRKKAIRSKVIRSGAYRGCTYETQLQLSAREAFPAWEAWPRGPGG
 HSCLVESEGLTENIWAFAGISRPCALALLRRDVLGAFLLWPELGASGQWCLSVRTQCGVVPHQVFRNHL
 GRYCLEHLPAEFPSLEALVENHAVTERSLFCPLDMGRLNPTYEEQDCGPPGRPPRTLRLPLSHAKSEAE LQ
 GLG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001103161

ORF Size: 1269 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_001103161.2](#)

RefSeq Size: 3834 bp

RefSeq ORF: 1272 bp

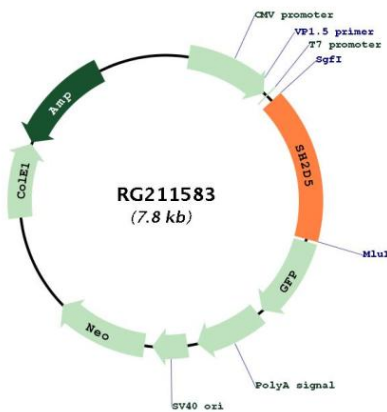
Locus ID: 400745

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]

Product images:



Circular map for RG211583