

Product datasheet for RC211999

SH2D5 (NM_001103160) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | SH2D5 (NM_001103160) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | SH2D5 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >RC211999 representing NM_001103160 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC

ATGGCTCATGCCCTGAGGCGCATCTACTCCACCTGGTGCCCTGCCGACTGCCAGTTGCCTTCATGGCTCGAAACCCACGGAGCCAGCCAGCAAGCTCTTCTGCCACCTCTTTGTGGGCAGCCAGCCAGGAGAGGTCCAGATCCTGCACCTGCTGCTGTGCCGCTTTTCCAGCTGGCTTACCTCTTGACAGCACCTGAGGAGCGGGCACAGCCAGAGCCCTGCCAGGGCCACAGGGAGGTGCCCTGAAGCCACTGTCCAGCTCTGGGGGCCGGTGCCGGGAGCCCTTCGGCCGTGATCAGCTCTCTCAGAACGTCCATGCCCTGGTCTCCTTCGGCGGCTGCCAGCAGAGGGGCTGGTGGGCAGTGGGAAGGAGCTGCCAGAGTCGGAAGGCCGTGCCCGCATGCCCGCTGGGAATCCCTACTGCTCGCCACGCTGGTGCACAAGAAGGCCATTCCAGCAAGGTGATCCGCTCGGGGCTACCGGGCTGCACCTATGAGACCCAGCTGCAGCTGTCCGCTCGGGAGGCCTTCTGCCGCATGGAGGCATGGCCCGGGTCTGGTGGCCACTCGTGCCTGGTGGAGAGCGAGGGCAGCCTGACGGAGAATCTGGGCCTTCGCTGGCATCTCCAGGCCCTGTGCCCTGGCCCTGTTGCGGAGAGACGTGCTGGGGCCTTCCTGCTGTGGCCTGAGCTGGGTGCTAGCGCCAGTGGTGTCTGTCCGTGCGCACGAGTGGCGGTGGTGGCCACCAGTCTCCGGAACCCTGGGCCGCTACTGCTTGAGCACCTGCCGCAGAGTTCCCAGCTGGAGGCTCTGGTGGAGAACCACGCGTTACTGAACGTAGCCTCTTCTGTCCCCTGCATGGGCCCTGTAACCCACCTACGAGGAGCAGGACTGTGGGCCCCAGGCAGGCCGCCCGGACTCTCCGGCCCTCAGCCATGCCAAGTCCGAGGCAGAGCTGCAGGGCCTGGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC211999 representing NM_001103160
Red=Cloning site Green=Tags(s)

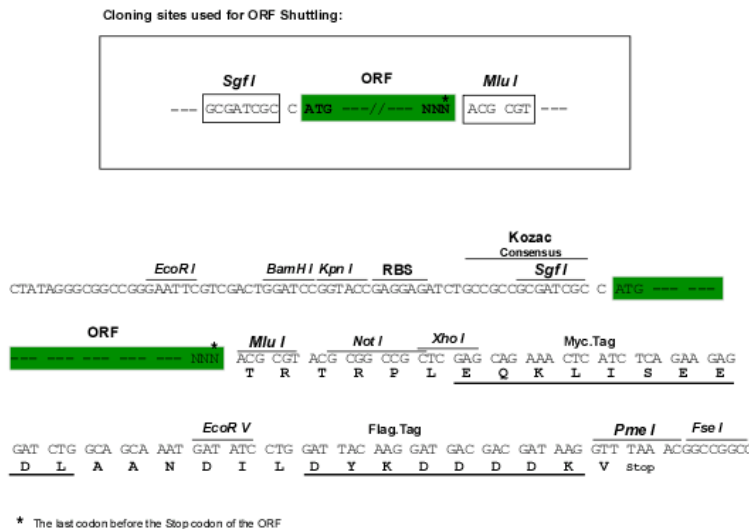
MAHALRRILYSTWCPADCQFAFMARNPRSPASKLFCHLFVGSQPGEVQILHLLLCRSFQLAYLLQHPEER
 AQPEPCPGPTGEVPLKPLSSSGGLVREPFGRDQLSQNVHALVSRRLPAEGLVSGKELPESEGRARHAR
 LGNPYCSPTLVRKKAIRSKVIRSGAYRGCTYETQLQLSAREAFPAWEAWPRGPGGHSCLVESEGLTEN
 IWAFAGISRPCALALLRRDVLGAFLLWPELGASGQWCLSVRTQCGVVPHQVFRNHLGRYCLEHLPAEFPS
 LEALVENHAVTERS LFCPLDMGRNLNPTYEEQDCGPPGRPRTLRLSHAKSEAELQGLG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1275_f08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



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:

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

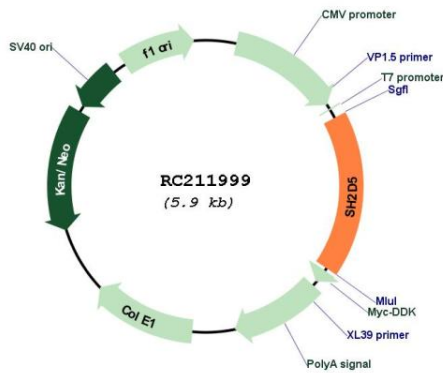
UniProt ID: [Q6ZV89](#)

Cytogenetics: 1p36.12

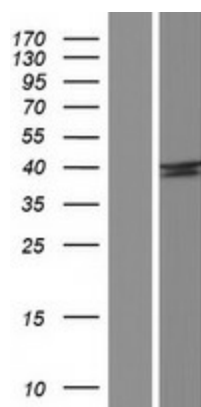
MW: 37.3 kDa

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 RC211999



Western blot validation of overexpression lysate (Cat# [LY420197]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211999 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).