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# Product datasheet for MR220118

## Sh2d5 (NM_001099631) Mouse Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | Sh2d5 (NM_001099631) Mouse Tagged ORF Clone |
| **Tag:** | Myc-DDK |
| **Symbol:** | Sh2d5 |
| **Synonyms:** | BC036961 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |

**ORF Nucleotide Sequence:**

>MR220118 representing NM_001099631
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAGAGGGCTGGGGCCGGGGCCCGAAGGGCTTCCGACTGTGGGCCTGCACCTTACCGGCCCAGGTGCA
TTGCCAAGCTTGCCCAGTATGTGGGATCCTTTCCTGTGGATGACTTGGACACTCAGGAGAGCGTGGGCCT
CGTACAGCAGCAGCTATGGGCCCTGCAGGACTGTTCCCGACGCCGGGCTGTCATTCTGAAATTCAGTCTT
CAGGGTCTCAAGATCTACAGTGGGGAGGGCGAGGTGCTCCTAATGGCCCATGCGCTGAAGCGCATCCTCT
ATGCCACCTGGTACCCAGCTGCCTGCCAGTTTGCTTTTATTGCCCGGAACCCACGCAGCCCATCCAGCAA
GCTCTTTTGTCATCTCTTTGTGGGGAGCCAGCCTGGAGAGGTCCATATCCTGTATCTGCTGCTCTGCCGT
TCCTTCCAGCTTGCATACCTCTTGCAGCACCCTGAGGAGAGGGCACAGTCTGAGCCTTGCCTGGCGCCTG
TAGGGGACCTGTCCCTGAAGCCACTCTGCAGCCCTGGGGTACCCCCTGCATTAGTGCGAGAGCCCTTCAG
CCGGGATCAGCTGTCACAGAATGTTCATGCCCTGGTCTCCTTCCGGCGGCTTCCTGCAGAAGGGCTCCTG
GGCAGTAATGGGAAGGAGCTGCCAGAGTCAGAGGGCCGTGGGGGCACCCGTCATATTCGCCTGGGGAACC
CCTACTGCTCACCCACACTGGTGCGCAAGAAGGCCATTCGCAGCAAGGTGATCCGCTCCGGGGCCTACCG
AGGCTGCACCTATGAGACCCAGCTTCAGCTGTCAGCCCGGGAAGCCTTTCCTGCTGCATGGGAGGCGTGG
CCCCGTGGCCCTGGTGGCCCCTCGTGCCTTGTGGAGAATGAGGGAAGCCTGACAGAGAACATCTGGGCCT
TTGCTGGCCTTTCCAGGTCCTGTGCTCTTTCCCTGCTGCGGAGAGATGTGCATGGAGCCTTCCTGCTGTG
GCCAGAGCCAGGTACCAGCGACCAGTGGAGCCTGTCCGTACGGACCCAGTGTGGCGTGGTGCCTCACCAG
GTCTTCAGGAACCACCTAGGCCGGTTCTGCCTAGAGCACCTGCCAGCAGAGTTCCCCAGCCTGGAGGCCC
TGGTGGAGAGCCACGCCGGGGTGGAACGAAGTCTCTTCTGCCCACTCAGCATGGGCCGTCTCAACCCTAC
CTACGAAGAGCAGGACTGTGGGACTGAGGGAAGGTTCCCACGGACTCTGCGGCCCCTCAGCCACGCCAAG
TCTGAGGCGGAATTGCAAGGCCTGGGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR220118 representing NM_001099631
Red=Cloning site Green=Tags(s)

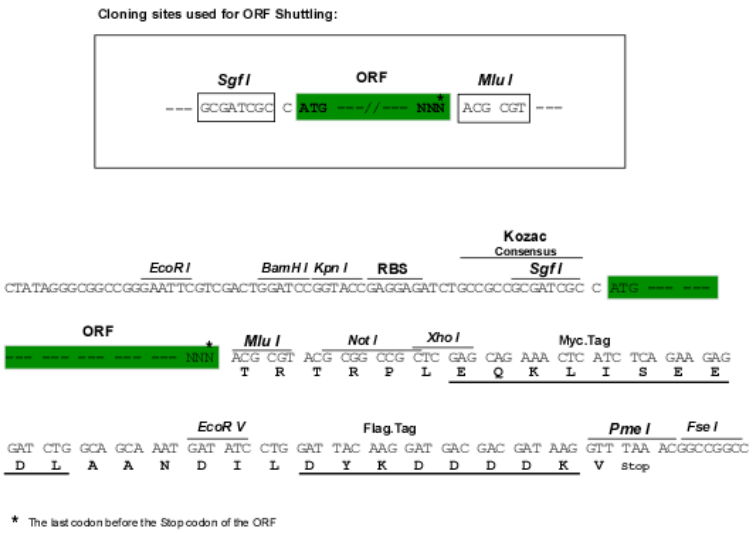
MQRAGAGARRASDCGPAPYRPRCIAKLAQYVGSFPVDDLDTQESVGLVQQQLWALQDCSRRRAVILKFSL
QGLKIYSGEGEVLLMAHALKRILYATWYPAACQFAFIARNPRSPSSKLFCHLFVGSQPGEVHILYLLLCR
SFQLAYLLQHPEERAQSEPCLAPVGDLSLKPLCSPGVPPALVREPFSRDQLSQNVHALVSFRRLPAEGLL
GSNGKELPESEGRGGTRHIRLGNPYCSPTLVRKKAIRSKVIRSGAYRGCTYETQLQLSAREAFPAAWEAW
PRGPGGPSCLVENEGSLTENIWAFAGLSRSCALSLLRRDVHGAFLLWPEPGTSDQWSLSVRTQCGVVPHQ
VFRNHLGRFCLEHLPAEFPSLEALVESHAGVERSLFCPLSMGRLNPTYEEQDCGTEGRFPRTLRPLSHAK
SEAELQGLG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** https://cdn.origene.com/chromatograms/mm9081_h03.zip

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**ACCN:** NM_001099631

**ORF Size:** 1287 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_001099631.1, NP_001093101.1

**RefSeq Size:** 3158 bp

**RefSeq ORF:** 1290 bp

**Locus ID:** 230863

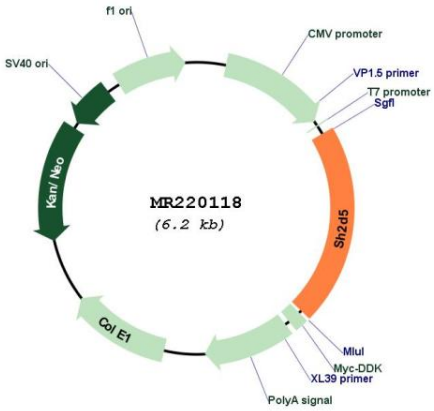
**UniProt ID:** Q8JZW5

**Cytogenetics:** 4 D3

**MW:** 47.4 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 MR220118