

## Product datasheet for **MR209003**

### **Dpysl2 (NM\_009955) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Dpysl2 (NM_009955) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dpysl2
Synonyms:	AI851130; Crmp2; DRP2; Musunc33; TOAD-64; Ulip2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR209003 representing NM\_009955  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCCTTATCAGGGGAAGAAAAATATTCCACGCATCACGAGCGATCGTCTTCTGATCAAAGTGGCAAGA  
 TTGTGAATGATGACCAAGTCCCTTCTATGCAGACATATACATGGAAGATGGGTTGATCAAGCAAATAGGAGA  
 AAACCTGATTGTACCAGGAGGGGTGAAGACCATCGAAGCCCACTCCAGAATGGTATTCCCGAGGGATT  
 GACGTGCATACTCGCTTCCAGATGCCTGACCAGGGAATGACATCCGCTGATGACTTCTCCAGGGAACCA  
 AGGCGGCCCTGGCCGGGGGAACCACCATGATCATTGACCATGTTGTTCTGAGCCCGGACGAGCCTATT  
 GGCTGCCTTTGATCAGTGGAGGGAGTGGCTGACAGCAAGTCTGCTGTGACTATTGCTGCACGTGGAC  
 ATCACTGAGTGGCACAAGGGCATCCAGGAGGAGATGGAAGCTCTGGTGAAGGACCACGGGTAACCTCT  
 TCCTCGTACATGGCTTCAAAGATCGATTCCAGCTGACGGATCCCAGATCTATGAAGTCTGAGCGT  
 GATCCGGGATATCGGTGCCATAGCTCAAGTCCACGCAGAGAATGGTGACATCATTGCTGAGGAACAGCAG  
 AGGATCTGGATCTGGGCATCACGGGCCCGAGGGACACGTGTTGAGCCGCCAGAGGAGTTCGAGGCTG  
 AAGCTGTGAACCGGTCCATCACTATTGCCAACAGACCAACTGCCCTCTGTATGTCACCAAAGTGTAGAG  
 CAAGAGTGCAGGCTGAAGTCACTCGCTCAGGCACGGAAGAAGGGAAGTGTGGTGTATGGTGAGCCCATCACG  
 GCCAGCCTGGGGACTGATGGCTCTCATTACTGGAGCAAGAAGTGGCCAAAGGCTGCGGCCTTTGTACCT  
 CCCACCTTGAGCCCGACCAACCACTCCAGACTTTCTCAACTCGTTGCTGTCTGTGGAGACCTCCA  
 AGTCACTGGCAGTGGCCACTGCACCTTCAACACTGCCAGAAGGCTGTGGGAAGGACAACCTCACCTTG  
 ATCCCGAGGGCACCAACGGCAGTGGAGCGGATGTCTGTCTTTGGGATAAAGTGTGGTGTGGTCACTGGGA  
 AGATGGATGAGAATCAGTTTGTGGCTGTGACAGCACCAACGCAGCCAAAGTCTTCAACCTTTACCCCG  
 GAAAGGTCGCATCTCGGTGGGATCTGATGCTGACTTGGTCACTCTGGGACCCTGACAGTGTGAAGACCATC  
 TCTGCCAAGACACACAACAGTGTCTTGTAGTACAACATCTTTGAAGGCATGGAGTGTGCGGCTCCCCAC  
 TGGTGGTCACTCAGCCAGGGCAAGATTGCTCTGGAGGACGGCACACTTCATGCTCACTGAAGGCTCAGGACG  
 CTACATCCCCGGAAGCCCTTCCCTGACTTTGTGTACAAACGCATCAAAGCAAGGAGCAGGCTGGCTGAG  
 CTGAGAGGGTCCCTCGTGGCTGTATGACGGACCGGTATGCGAGGTGTCTGTGACGCCCAAGACGGTGA  
 CTCCAGCCTCATAGCTAAGACATCCCCTGCCAAGCAGCAGGCACCACCTGTTCCGAACCTGCACCAGTC  
 TGGATTACGTTGTCTGGTGTCTGAGATTGACGACAACATCCCCCGCCGACCACCAGCGCATCGTGGCA  
 CCCCTGGTGGCGTGCCAACATCACAGCCTGGGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR209003 representing NM\_009955  
 Red=Cloning site Green=Tags(s)

MSYQGKKNIPRITSDRLLIKGGKIVNDDQSFYADIYMEDGLIKQIGENLIVPGGVKTIEAHSRMVIPGGI  
 DVHTRFQMPDQGMTSADDFQGTKAALAGGTTMIIDHVPEPGTSLAALFDQWREWADSKSCCDYSLHVD  
 ITEWHKGIQEEMEALVKDHGVNSFLVYMAFKDRFQLTDSQIYEVLSVIRDIGAIQVHAENGDIIEEQQ  
 RILDGITGPEGHVLSRPEEVEAEAVNRSITIANQTNCLYVTKVMSKSAEVIQARKKGTVVYGEPI  
 ASLGTGDSHYWSKNWAKAAAFVTSPLSPDPTPDFLNSLLSCGDLQVTSAGHCTFNTAQKAVGKDNFTL  
 IPEGTNGTEERMSVIWDKAVVTGKMDENQFVAVTSTNAKVFNL YPRKGRISVGSADLVIWDPDSVKTI  
 SAKTHNSALEYNI FEGMECRGSPLVVISQGKIVLEDGTLHVTEGSGRYIPRKPFDFVYKRIKARSRLAE  
 LRGVPRGLYDGPVCEVSVTPKTVTPASSAKTSPAKQQAPPVNRNLHQSGFSLSGAQIDDNI PRRTTQRIVA  
 PPGGRANITSLG

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mg3849\\_h05.zip](https://cdn.origene.com/chromatograms/mg3849_h05.zip)

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_009955

ORF Size: 1716 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 Size: 4451 bp

RefSeq ORF: 1719 bp

Locus ID: 12934

UniProt ID: [O08553](#)

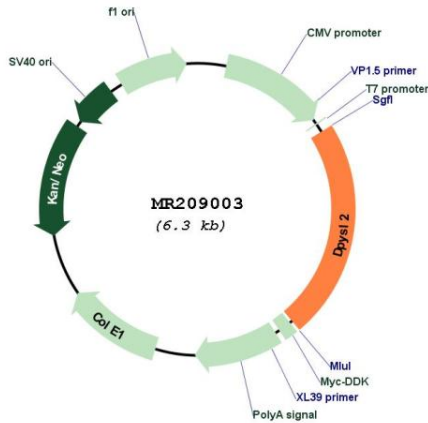
Cytogenetics: 14 34.6 cM

MW: 62.3 kDa

**Gene Summary:**

Plays a role in neuronal development and polarity, as well as in axon growth and guidance, neuronal growth cone collapse and cell migration. Necessary for signaling by class 3 semaphorins and subsequent remodeling of the cytoskeleton. May play a role in endocytosis. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR209003