

## Product datasheet for **MR225845**

### **Dvl1 (NM\_010091) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Dvl1 (NM_010091) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dvl1
Synonyms:	Dvl; mKIAA4029
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>MR225845 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGAGACAAAATCATCTACCACATGGACGAGGAGGAGACGCCGTACCTGGTCAAGCTGCCGTAG  
 CTCCCAGCGCGTCACGCTGGCCGACTTCAAGAACGTGCTCAGCAACCGGCCGGTGCACGCCTACAAATT  
 CTTCTTCAAGTCCATGGACCAGGACTTCGGGGTGGTGAAGGAGGAGATCTTCGATGACAATGCCAAGTTG  
 CCCTGTTCAATGGCCGGGTGGTTTCTGGCTGGTCTGGCTGAGGGCGCTCACTCGGATGCAGGGTCCC  
 AGGGCACTGACAGCCACACGGACCTGCCCCACCCCTTGAGAGGACAGGGCGCATTTGGGACTCCAGGCC  
 CCCCTCCTTCCATCCAAATGTTGCCAGTAGCCGGGACGGAATGGACAATGAGACAGGCACAGAGTCTATG  
 GTCAGTACCGGGCGGAGCGAGCCCGACGTCGAAACCGCGATGAGGCTGCCCGGACCAATGGGCACCCGA  
 GAGGGGATCGGGCGGGACCTGGGACTACCTCCAGACAGTGCATCTACTGTACTGAGCAGTGAAGTTGA  
 ATCTAGCAGCTTTATTGACTCAGATGAGGAGGACAATACGAGCCGGCTGAGCAGCTCCACAGAGCAGAGC  
 ACCTCCTCTCGGCTAGTTCGGAAGCACAAATGCCGTCTGTCGGAAGCAGCGCTTGAGGCAGACAGACCGGG  
 CATCCTCCTTTCAGCAGCATCACAGACTCCACCATGTCCCTGAACATCATCACCGTCACTCTCAACATGGA  
 GAGGCACCACTTCTGGGCATCAGCATCGTGGCCAGAGCAACGACCGGGGTGATGGCGGCATCTACATT  
 GGATCCATCATGAAGGGCGGGCCGTGGCTGCTGATGGCCGATTGAGCCGGGGACATGTTGCTGCAGG  
 TGAACGATGTCAACTTTGAGAACATGAGCAATGACGACGCTGTACGGGTGCTTCGGGAGATCGTGTCCCA  
 GACAGGGCCATCAGTCTCACAGTGGCCAAAGTGTGGGACCAACCCCTCGGAGCTACTTACCATTCCCA  
 AGGGCTGACCCAGTGCAGCCATCGACCCGGCTGCCTGGCTGTCCACACAGCAGCACTGACGGGTGCC  
 TGCCCCGCTATGGTACGAGTCCCTGCTCCAGGCCATCACACGCACCAGCTTTCTCCTACTAACCAGCTC  
 AGTGCCTGGCGCCACAGCTTGAGGAGGCGCCGCTGACTGTGAAGAGTGACATGAGTGCCATTGTCCGC  
 GTCATGCAGTTGCCAGACTCAGGACTGGAGATCCGGGACCGCATGTGGTTAAGATCACCAATTGCCAATG  
 CTGTCATTGGGGCGGATGTGGTGGACTGGCTGTACACACACGTGGAGGGCTTCAAGGAGCGAAGGGAGGC  
 AAGAAAGTATGCCAGCAGTATGCTGAAGCACGGTTTCTGAGGCACACCGTGAACAAGATCACCTTTTCT  
 GAGCAGTGTACTATGTCTTTGGCGACCTGTGCAGTAACCTCGCATCCCTGAACCTCAACAGTGGCTCCA  
 GTGGAGCCTCAGATCAGGACACACTGGCCCACTGCCCAACCATCAGTACCCTGGCCCTTGGGTCAAGG  
 CTACCCCTACCAGTACCAGACCCCGCCCTGCTTCCACCTGCTTACCAGGACCCTGGCTTCAAGTGC  
 GGCAGCGCAGTGTGGGAGCCAGCAGAGTGAAGGGAGCAAGAGCAGTGGGTCCACACGGAGCAGCCATC  
 GGACCCAGGCCGAGAGGAGCGCCGGGCAACTGGAGCTGGGGGTAGTGGCAGTGAATCAGACCACACAGT  
 ACCAAGTGGGTCTGGTAGCACCGGCTGGTGGGAGCGGCCTGTACGCCAGCTTAGCCGTGGCAGTAGCCCT  
 CGAAGTCAGGCTTCAAGTGTGGCCAGGGCTCCCCCACTGCACCCCTTACAAAGGCCTATGCAGTAG  
 TGGGTGGGCCACCTGGAGGGCCACCTGTCCGGGAGCTGGCTGCTGTCCCTCCAGAATTACAGGTAGCCG  
 CCAGTCTTCCAAAAGGCCATGGGAAACCCCTGTGAGTTCTTTGTGGACATCATG

**ACCGGT**ACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR225845 protein sequence  
Red=Cloning site Green=Tags(s)

MAETKIIYHMDEEETPYLVKLPVAPERVTLADFKNVLNRPVHAYKFFKSMDDQDFGVVKEEIFDDNAKL  
 PCFNGRVVSWL VLAEGAHS DAGSQGTD SHTDLPPPLERTGGIGDSRPPSFHPNVASSRDGMDNETGTESM  
 VSHRRERARRRRNRDEAARTNGHPRGDRRDLGLPPDSASTVLSSELESSSFIDSDEEDNTSRLSSSTEQS  
 TSSRLVRKHKCRRRKQRLRQTDRASSFSSITDSTMSLNIITVTLNMERHHFLGISIVGQSNDRGDGGIYI  
 GSIMKGGAVAADGRIEPGDMLLQVNDVNFENMSNDDAVRVLREIVSQTGPISLTVAKCWDPTPRSYFTIP  
 RADPVRPIDPAAWLSHTAALTGALPRYGTSPCSSAITRTSSSSLTSSVPGAPQLEEAPLTVKSDMSAIVR  
 VMQLPDSGLEIRDRMWLKITIANAVIGADVVDWLYTHVEGFKERREARKYASSMLKHGFLRHTVNKITFS  
 EQCYYVFDLCSNLASLNLNSGSSGASDQDTLAPLPHSPVPWPLGQGYPYQPPPPCFPAYQDPGFSC  
 GSGSAGSQQSEGSKSSGSTRSSHRTPGREERRATGAGGSGESDHTVPSGSGSTGWWERPVSQLSRGSSP  
 RSQASAVAPGLPPLHPLTKAYAVVGGPPGPPVRELAAVPPELTGSRQSFQKAMGNPCEFFVDIM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_010091

**ORF Size:** 2088 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\\_010091.3](#), [NM\\_010091.4](#), [NP\\_034221.3](#)

**RefSeq Size:** 3365 bp

**RefSeq ORF:** 2088 bp

**Locus ID:** 13542

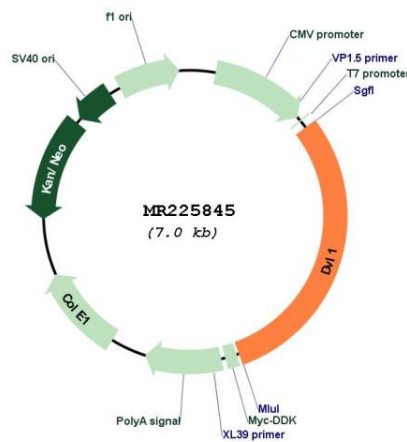
**UniProt ID:** [P51141](#)

**Cytogenetics:** 4 87.61 cM

**MW:** 75.4 kDa

**Gene Summary:** The protein encoded by this gene is a member of the Dishevelled family of proteins. These proteins have an N-terminal Dishevelled/Axin domain, a Dishevelled, EGL-10, Plextrin domain, a central PDZ domain, and a C-terminal domain of approximately 200 amino acids. They regulate both canonical and non-canonical Wnt signaling as well as planar cell polarity pathways. Mice deficient for this gene are viable and fertile but display reduced social interaction. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2014]

### Product images:



Circular map for MR225845