

Product datasheet for **MR230911**

Dvl1 (NM_001302342) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dvl1 (NM_001302342) 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:

>MR230911 representing NM_001302342
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGAGACAAAATCATCTACCACATGGACGAGGAGAGACGCCGTACCTGGTCAAGCTGCCGTAG
 CTCCCAGCGCGTCACGCTGGCCGACTTCAAGAACGTGCTCAGCAACCGGCCGGTGCACGCCTACAAATT
 CTTCTTCAAGTCCATGGACCAGGACTTCGGGGTGGTGAAGGAGGAGATCTTCGATGACAATGCCAAGTTG
 CCCTGTTCAATGGCCGGGTGGTTTCTGGCTGGTCTGGCTGAGGGCGCTCACTCGGATGCAGGGTCCC
 AGGGCACTGACAGCCACACGGACCTGCCCCACCCCTTGAGAGGACAGGGCGCATTGGGGACTCCAGGCC
 CCCCTCCTTCCATCCAAATGTTGCCAGTAGCCGGGACGGAATGGACAATGAGACAGGCACAGAGTCTATG
 GTCAGTACCGGGCGGAGCGAGCCCGACGTCGAAACCGCGATGAGGCTGCCCGGACCAATGGGCACCCGA
 GAGGGGATCGGCGCGGGACCTGGGACTACCTCCAGACAGTGCATCCACTGTACTGAGCAGTGAAGTTGA
 ATCTAGCAGCTTTATTGACTCAGATGAGGAGGACAATACGAGCCGGCTGAGCAGTCCACAGAGCAGAGC
 ACCTCCTCTCGGCTAGTTCGGAAGCACAAATGCCGTGCTCGGAAGCAGCGCTTGAGGCAGACAGACCGGG
 CATCCTCCTTCAGCAGCATCACAGACTCCACCATGTCCCTGAACATCATCACCGTCACTCTCAACATGGA
 GAGGCACCACTTCTGGGCATCAGCATCGTGGCCAGAGCAACGACCGGGGTGATGGCGGCATCTACATT
 GGATCCATCATGAAGGGCGGGCCGTGGCTGCTGATGGCCGATTGAGCCGGGCGACATGTTGCTGCAAG
 TGAACGATGTCAACTTTGAGAACATGAGCAATGACGACGCTGTACGGGTGCTTCGGGAGATCGTGTCCCA
 GACAGGGCCATCAGTCTCACAGTGGCCAAGTGTGGGACCAACCCCTCGGAGCTACTTACCATCCCA
 AGGGCTGACCCAGTGCAGCCATCGACCCGGCTGCCTGGCTGTCCACACAGCAGCACTGACGGGTGCC
 TGCCCCGCTATGGTACGAGTCCCTGCTCCAGGCCATCACACGCACCAGCTTTCTCCTACTAACCAGCTC
 AGTGCCTGGCGCCACAGCTTGAGGAGCACCGCTGACTGTGAAGAGTGACATGAGTGCCATTGTCCGC
 GTCATGCAGTTGCCAGACTCAGGACTGGAGATCCGGGACCGCATGTGGTTAAGATCACCAATTGCCAATG
 CTGTCATTGGGGCGGATGTGGTGGACTGGCTGTACACACACGTGGAGGGCTTCAAGGAGCGAAGGGAGGC
 AAGAAAGTATGCCAGCAGTATGCTGAAGCACGGTTTCTGAGGCACACCGTGAACAAGATCACCTTTTCT
 GAGCAGTGTACTATGTCTTTGGCGACCTGTGCAGTAACCTCGCATCCCTGAACCTCAACAGTGGCTCCA
 GTGGAGCCTCAGATCAGGACACACTGGCCCCACTGCCCAACCATCAGTACCCTGGCCCTTGGGTCAAGG
 CTACCCCTACCAGTACCCAGGACCCCGCCCTGCTTCCCGCTGCTTACCAGGACCCTGGCTTCAAGTGC
 GGCAGCGCAGTGTGGGAGCCAGCAGAGTGAAGGGAGCAAGAGCAGTGGGTCCACACGGAGCAGCCATC
 GGACCCAGGCCGAGAGGAGCGCCGGGCAACTGGAGCTGGGGGTAGTGGCAGTGAATCAGACCACACAGT
 ACCAAGTGGGTCTGGTAGCACCGGCTGGTGGGAGCGGCCTGTACGCCAGCTTAGCCGTGGCAGTAGCCCT
 CGAAGTCAGGCTTCAAGTGTGCCCCAGGGCTCCCCCACTGCACCCCTTACAAAGGCCTATGCAGTAG
 TGGGTGGGCCACCTGGAGGGCCACCCGTCGGGAGCTGGCTGCTGTCCCTCCAGAATTACAGGTAGCCG
 CCAGTCTTCCAAAAGGCCATGGGAAACCCCTGTGAGTTCTTTGTGGACATCATG

ACCGGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR230911 representing NM_001302342
Red=Cloning site Green=Tags(s)

MAETKIIYHMDEEETPYLVKLPVAPERVTLADFKNVLNRPVHAYKFFKSMDDQDFGVVKEEIFDDNAKL
 PCFNGRVVSWL VLAEGAHS DAGSQGTD SHTDLPPPLERTGGIGDSRPPSFHPNVASSRDGMDNETGTESM
 VSHRRERARRRRNRDEAARTNGHPRGDRRDLGLPPDSASTVLSSELESSSFIDSDEEDNTSRLSSSTEQS
 TSSRLVRKHKCRRRKQRLRQTDRASSFSSITDSTMSLNIITVTLNMERHHFLGISIVGQSNDRGDGGIYI
 GSIMKGGAVAADGRIEPGDMLLQVNDVNFENMSNDDAVRVLREIVSQTGPISLTVAKCWDPTPRSYFTIP
 RADPVRPIDPAAWLSHTAALTGALPRYGTSPCSSAITRTSSSSLTSSVPGAPQLEEAPLTVKSDMSAIVR
 VMQLPDSGLEIRDRMWLKITIANAVIGADVVDWLYTHVEGFKERREARKYASSMLKHGFLRHTVNKITFS
 EQCYYVFDLCSNLASLNLNSGSSGASDQDTLAPLPHSPVPWPLGQGYPYQPPPPCFPPAYQDPGFSC
 GSGSAGSQQSEGSKSSGSTRSSHRTPGREERRATGAGGSGESDHTVPSGSGSTGWWERPVSQLSRGSSP
 RSQASAVAPGLPPLHPLTKAYAVVGGPPGPPVRELA AVPPELTGSRQSFQKAMGNPCEFFVDIM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001302342

ORF Size: 2085 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_001302342.1](#), [NP_001289271.1](#)

RefSeq Size: 3361 bp

RefSeq ORF: 2088 bp

Locus ID: 13542

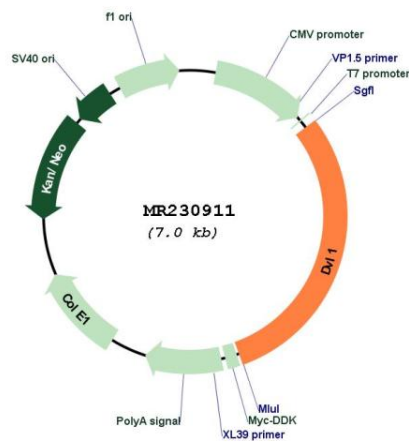
UniProt ID: [P51141](#)

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 MR230911