

Product datasheet for **MG225845**

Dvl1 (NM_010091) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dvl1 (NM_010091) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dvl1
Synonyms:	Dvl; mKIAA4029
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG225845 representing NM_010091
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGAGACAAAATCATCTACCACATGGACGAGGAGGAGACGCCGTACCTGGTCAAGCTGCCCGTAG
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 CTTCTTCAAGTCCATGGACCAGGACTTCGGGGTGGTGAAGGAGGAGATCTTCGATGACAATGCCAAGTTG
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 CCAGTCTTCCAAAAGGCCATGGGAAACCCCTGTGAGTTCTTTGTGGACATCATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG225845 representing NM_010091
 Red=Cloning site Green=Tags(s)

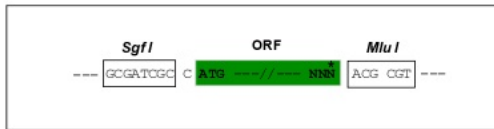
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 EQCYYVFGDLCSNLASLNLNSGSSGASDQDTLAPLPHPSVPWPLGQGYPYQPGPPPCFPAYQDPGFSC
 GSGSAGSQQSEGSKSSGSTRSSHRTPGREERRATGAGGSGESDHTVPSGSGSTGWWERPVSQLSRGSSP
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TRTRPLE - GFP Tag - V

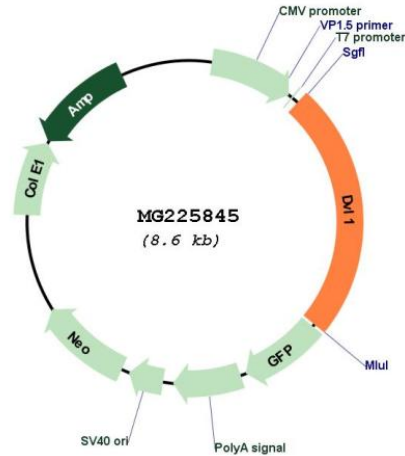
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_010091

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_010091.3](#), [NP_034221.3](#)

RefSeq Size: 3365 bp

RefSeq ORF: 2088 bp

Locus ID: 13542

UniProt ID: [P51141](#)

Cytogenetics: 4 87.61 cM

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]