

## Product datasheet for **RG202233**

### Dishevelled 2 (DVL2) (NM\_004422) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dishevelled 2 (DVL2) (NM_004422) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dishevelled 2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>RG202233 representing NM\_004422  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGCGGGTAGCAGCACTGGGGCGGTGGGGTTGGGGAGACGAAGGTGATTTACCACCTGGATGAGGAAG  
AGACTCCCTACCTGGTGAAGATCCCTGTCCCGCGAGCGCATCACCTCGGCGATTTCAGAGCGTCCT  
GCAGCGGCCCGCGGGCGCAAGTACTTTTTCAAGTCTATGGATCAGGATTTGGGGTGGTGAAGGAAGAA  
ATTTAGATGACAACGCCCGCTCCCCTGCTTCAACGGAAGGGTGGTATCCTGGCTGGTGTCTCAGATA  
ATCCCCAACCGAGATGGCCCTCCAGTCCATGAGCCTCGGGCAGAACTGGCGCTCCAGCCCCACCTTT  
ACCTCCTTTGCCACCGAGAGGACCAGCGGCATTGGGGACTCAAGGCCTCCATCCTTCCACCCTAATGTG  
TCCAGCAGCCATGAGAATCTGGAGCCTGAGACAGAAACCGAGTCAGTAGTGTCACTGAGGCGGGAGCGGC  
CTCGCAGGAGAGACAGCAGTGGCATGGCGCTGGGGCCACAGGACTGGTGGCCCTCAAGGCTGGAGCG  
CCACCTGGCCGGATACGAGAGCTCCTTACCCTCATGACCAGCGAGCTGGAGAGTACCAGCTGGGGGAC  
TCGGACGAGGAGGACACCATGAGCAGGTTGAGCAGCTCCACGGAGCAGAGCAGTGCCTCCCGCTCCTTA  
AGCGCCACCGGGCGGAAGGAAGCAGAGGCCACCCCGCTGGAGAGGACGTCATCCTTACGACAGCTCAC  
AGATTCACAATGTCTCTCAATATCATCACAGTCACGCTAAACATGGAGAAGTACAACTTCTGGGTATC  
TCCATTGTTGGCCAGAGCAATGAGCGGGGAGACGGAGGCATCTACATTGGCTCCATCATGAAGGGTGGGG  
CTGTGGCGGCCGACGGGCGCATTGAGCCAGGGGACATGCTTTTGCAGGTGAATGACATGAACTTTGAGAA  
CATGAGCAACGATGACGCTGTGCGGGTCTGAGGGACATTGTGCAACAAGCCTGGCCCCATTGTGCTGACT  
GTGGCCAAGTGTGGGATCCCTCTCCTCAGGCCTATTTCACTCTCCCCGAAATGAGCCCATCCAGCCAA  
TTGACCCTGTGCCTGGGTGCCATTCGCGGGCTCTGACTGGCACCTTCCAGCCTATCCAGGTTCCCTC  
CTCCATGAGCACCATACATCTGGATCGTCTTTGCCTGATGGCTGTGAAGGCCGGGTCTCTCCGTCCTAT  
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GCTACCTAGTCAACCTGTCTCTCAATGACAACGATGGCTCCAGTGGGGCTTACAGACCAGGATACCCTGGC  
TCCTCTGCCTGGGGCCACCCCTGGCCCTGCTGCCACTTTCTCTACCAATACCCTGCCCCACACCCC  
TACAGCCCGCAGCCTCCACCCTACCATGAGCTTTCATCTTACACCTATGGTGGGGCAGTGCCAGCAGCC  
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CGAGGAGCGGGCCCCGAGTCCAAGTCCGGCAGTGGCAGTGAAGTCTGAGCCCTCCAGCCAGGGGGCAGC  
CTTCGGCGGGGTGGGGAAGCAAGTGGGACTAGCGATGGGGGCCCTCCTCCATCCAGAGGCTCAACTGGGG  
GTGCCCTAATCTCCGAGCCACCCAGGGCTCCATCCCTATGGACCGCCCCCTGGCATGGCCCTCCCCTA  
CAACCCCATGATGGTGGTATGATGCCCCACCTCCACCTCCAGTCCCTCCAGCAGTGCAGCCTCCGGGG  
GCCCTCCAGTCAGAGACCTGGGCTCTGTGCCCCAGAAGTACAGCCAGCCGCAAGCTTCCACATGG  
CCATGGGCAATCCAGCGAGTTCTTTGTGGATGTTATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG202233 representing NM\_004422  
 Red=Cloning site Green=Tags(s)

```
MAGSSTGGGGVGETKVIYHLDEEETPYLVKIPVPAERITLGDVSVLQRPAGAKYFFKSMDDQDFGVVKEE
ISDDNARLPCFNRRVSWLVSSDNPQEMAPPVHEPRAELAPPAPPLPPLPERTSGIGDSRPPSFHPNV
SSSHENLEPETETESVSVLRRERPRRRDSEHGAGGHRTGGPSRLERHLAGYESSSTLMTSELESTSLGD
SDEEDTMSRFSSTEQSSASRLKRRHRRRKRQPPRLERTSSFSSVTDSTMSLNIITVTLNMEKYNFLGI
SIVGQSNERGDGGIYIGSIMKGGAVAADGRIEPMMLLQVNDMNFENMSNDDAVRVLRDIVHKPGPIVLT
VAKCWDPSQAYFTLPRNEPIQPIDPAAWVSHSAALGTFFPAYPGSSSMSTITSGSSLPDGCEGRGLSVH
TDMASVTKAMAAPESGLEVRDRMWLKITIPNAFLGSDVVDWLYHHVEGFPERREARKYASGLLKAGLIRH
TVNKITFSEQCYVYFGDLGGCESYLVNLSLNDNDGSSGASDQDTLAPLPATPWPLPTFSYQYPAPHP
YSPQPPPYHELSSYTYGGGSASSQHSEGRSSGSTRSDGGAGRTGRPEERAPESKSGSGSESESPSSRGG
LRRGGEASGTSDDGPPPSRGSTGGAPNLAHPGLHPYGGPPGMALPYNPMMVMMPPPPPPVPPAVQPPG
APPVRDLGSPPELTASRQSFHMAMGNPSEFFVDVM
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_004422

**ORF Size:** 2208 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\\_004422.3](#)

**RefSeq Size:** 3046 bp

**RefSeq ORF:** 2211 bp

**Locus ID:** 1856

**UniProt ID:** [O14641](#)

**Cytogenetics:** 17p13.1

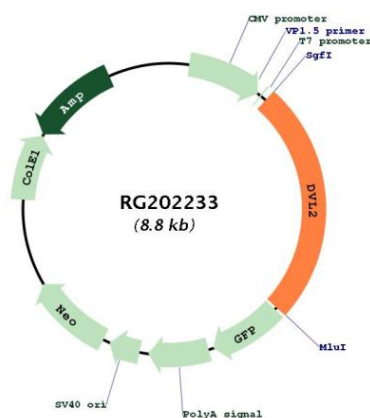
**Domains:** DEP, DAX, PDZ, Dishevelled

**Protein Families:** Druggable Genome, ES Cell Differentiation/IPS

**Protein Pathways:** Basal cell carcinoma, Colorectal cancer, Melanogenesis, Notch signaling pathway, Pathways in cancer, Wnt signaling pathway

**Gene Summary:** This gene encodes a member of the dishevelled (dsh) protein family. The vertebrate dsh proteins have approximately 40% amino acid sequence similarity with Drosophila dsh. This gene encodes a 90-kD protein that undergoes posttranslational phosphorylation to form a 95-kD cytoplasmic protein, which may play a role in the signal transduction pathway mediated by multiple Wnt proteins. The mechanisms of dishevelled function in Wnt signaling are likely to be conserved among metazoans. [provided by RefSeq, Jul 2008]

## Product images:



Circular map for RG202233