

## Product datasheet for **RG208406**

### **DVL1 (NM\_182779) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DVL1 (NM_182779) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DVL1
Synonyms:	dishevelled, dsh homolog 1 (Drosophila); dishevelled 1; dishevelled 1 (homologous to Drosophila dsh); DVL; DVL, MGC54245; MGC54245; OTTHUMP00000003104
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG208406 representing NM\_182779  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGAGACCAAGATTATCTACCACATGGACGAGGAGAGACGCCGTACCTGGTCAAGCTGCCCGTGG  
 CCCCCGAGCGCTCACGCTGGCCGACTTCAAGAACGTGCTCAGCAACCGGCCCGTGCACGCCTACAAATT  
 CTTCTTTAAGTCCATGGACCAGGACTTCGGGGTGGTGAAGGAGGAGATCTTTGATGACAATGCCAAGCTT  
 CCCTGTTCAACGGCCGCGTGGTCTCCTGGCTGGTCTGGCTGAGGGTGTCTACTCGGATGCGGGGTCCC  
 AGGGCACGGACAGCCACACAGACCTGCCCCGCTCTTGAGCGGACAGGCGGCATCGGGGACTCCCGGCC  
 CCCCTCCTCCACCCGAATGTGGCCAGCAGCCGTGACGGGATGGACAACGAGACAGGCACGGAGTCCATG  
 GTCAGTACCGGGCGGAGCGTCCCGACCCGGAACCGGAGGAGCCCGCCGACCAATGGGCACCCAA  
 GGGGAGACCGACGGCGGATGTGGGGCTGCCCCAGACAGCGCTCCACCGCCCTCAGCAGCGAGCTTGA  
 GTCCAGCAGCTTTGTGGACTCGGACGAGGATGGCAGCAGCAGCAGCTCAGCAGCTCCACGGAGCAGAGC  
 ACCTCATCCAGACTACCCGGAAGTACGCCAGCAGCTTGCTGAAGCACGGCTTCCTGCGGCACACGGTCA  
 ACAAGATCACCTTCTCCGAGCAGTGTACTACGTCTTCGGGGATCTCTGCAGCAATCTCGCCACCCTGAA  
 CCTCAACAGTGGCTCCAGTGGGACTTCCGATCAGGACACGCTGGCCCCGCTGCCCAACCCGGCTGCCCC  
 TGGCCTCTGGGTACGGCTACCCCTACAGTACCCGGACCCCCACCCTGCTTCCCGCTGCCTACCAGG  
 ACCCGGGCTTTAGCTATGGCAGCGGCAGCACCGGGAGTCAAGAGTGAAGGGAGCAAAGCAGTGGGTC  
 CACCCGGAGCAGCCCGGGCCCCGGCCGTGAGAAGGAGCGTCGGGCGGGGAGCTGGGGCAGTGGC  
 AGTGAATCGGATCACACGGCACCGAGTGGGTGGGAGCAGCTGGCGAGAGCGTCCGGCCGGCCAGCTCA  
 CGCGTGGCAGCAGCCACGCAGTCAGGCTCGGCTACCGCCCCGGGGCTCCCCCGCCCCACCCACGAC  
 CAAGGCTATACAGTGGTGGGGGGCCACCCGGGGACCCCTGTCCGGGAGCTGGCTGCCGTCCCCCG  
 GAATTGACAGGCAGCCGACGTCCTTCCAGAAGGCTATGGGAACCCCTGCGAGTCTTCGTGGACATCA  
 TG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG208406 representing NM\_182779  
 Red=Cloning site Green=Tags(s)

MAETKIIYHMDEEETPYLVKLPVAPERVTLADFKNVL SNRPVHAYKFFFKSMDQDFGVVKEEIFDDNAKL  
 PCFNGRVVSWL VLAEGAHS DAGSQGTDSDLDLPPPLERTGGIGDSRPPSFHPNVASSRDGMDNETGTESM  
 VSHRRERARRRNREEAARTNGHPRGDRRRDVGLPPDSASTALSSELESSSFVDSDEDGSTRLSSTEQS  
 TSSRLTRKYASSLLKHGFLRHTVNKITFSEQCYVFGDLCSNLATLNLNSGSSGTSQDQTLAPLPHPAAP  
 WPLGQGYPYQYPGPPPCFPAYQDPGFSYSGSGTGSQQSEGSKSSGSTRSSRRAPGREKERRAAGAGGSG  
 SESDHTAPSGVSSWRERPAQQLSRGSSPRSQASATAPGLPPPHPTTKAYTVVGGPPGPPVRELAAVPP  
 ELTGSRSQSFQKAMGNPCEFFVDIM

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_182779

**ORF Size:** 1332 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\\_182779.2](#), [NP\\_877580.1](#)

**RefSeq Size:** 2286 bp

**RefSeq ORF:** 1334 bp

**Locus ID:** 1855

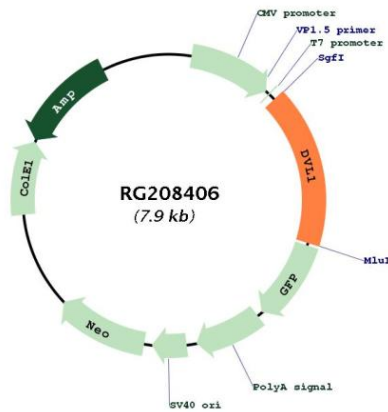
**Cytogenetics:** 1p36.33

**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:** DVL1, the human homolog of the Drosophila dishevelled gene (dsh) encodes a cytoplasmic phosphoprotein that regulates cell proliferation, acting as a transducer molecule for developmental processes, including segmentation and neuroblast specification. DVL1 is a candidate gene for neuroblastomatous transformation. The Schwartz-Jampel syndrome and Charcot-Marie-Tooth disease type 2A have been mapped to the same region as DVL1. The phenotypes of these diseases may be consistent with defects which might be expected from aberrant expression of a DVL gene during development. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG208406