

Product datasheet for **RG217691**

DVL1 (NM_004421) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DVL1 (NM_004421) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DVL1
Synonyms:	DRS2; DVL; DVL1L1; DVL1P1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG217691 representing NM_004421
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGAGACCAAGATTATCTACCACATGGACGAGGAGAGACGCCGTACCTGGTCAAGCTGCCCGTGG
CCCCGAGCGCGTCACGCTGGCCGACTTCAAGAACGTGCTCAGCAACCGGCCCGTGCACGCCTACAATT
CTTCTTTAAGTCCATGGACCAGGACTTCGGGGTGGTGAAGGAGGAGATCTTTGATGACAATGCCAAGCTT
CCCTGTTCAACGGCCGCGTGGTCTCCTGGCTGGTCTGGCTGAGGGTGGTCACTCGGATGCGGGTCCC
AGGGCAGCGACGCCACACAGACCTGCCCCGCTCTTGAGCGGACAGGCGGCATCGGGGACTCCCGGCC
CCCCTCCTCCACCCGAATGTGGCCAGCAGCCGTGACGGGATGGACAACGAGACAGGCACGGAGTCCATG
GTCAGTACCGGGCGGAGCGTCCCGACCCGGAACCGGAGGAGCCCGCCGGACCAATGGGCACCCAA
GGGAGACCGACGGCGGATGTGGGGCTGCCCCAGACAGCGCGTCCACCGCCCTCAGCAGCGAGCTTGA
GTCCAGCAGCTTTGTGGACTCGGACGAGGATGGCAGCAGCAGCAGGCTCAGCAGCTCCACGGAGCAGAGC
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CCTCCTCCTTCAGCAGCATAACCGACTCCACCATGTCCCTCAACATCGTCACTGTACGCTCAACATGGA
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GGCTCCATCATGAAGGGCGGGCTGTGGCCGCTGACGGCCGCATCGAGCCCGGCGACATGTTGCTGCAGG
TGAATGACGTGAAGTTTGAAGACATGAGCAATGACGATGCCGTGCGGGTGGTGGGGAGATCGTTTCCCA
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CGGGTGACCCGGTGGCGCCATCGACCCCGCCGCTGGCTGTCCACACGGCGGCACTGACAGGAGCCC
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GTGCTACTACGTCTTCGGGATCTCTGCAGCAATCTCGCCACCCTGAACCTCAACAGTGGCTCCAGTGGG
ACTTCGGATCAGGACACGCTGGCCCGCTGCCCAACCGGCTGCCCTGGCCTCTGGGTGAGGGCTACC
CCTACCAGTACCCGGGACCCCACTGCTTCCCGCTGCCTACCAGGACCCGGGCTTTAGCTATGGCAG
CGGCAGCACCGGAGTCAAGGAGTGAAGGAGCAAAAGCAGTGGGTCCACCCGGAGCAGCCCGGGCC
CCGGCCGTGAGAAGGAGCGTGGGCGGGGAGCTGGGGCAGTGGCAGTGAATCGGATCACACGGCAC
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TCAGGCCTCGGCTACCGCCCGGGGCTCCCCCGCCCAACCCACGACCAAGGCCTATACAGTGGTGGGG
GGGCCACCCGGGGGACCCCTGTCCGGGAGTGGCTGCCGTCCCCCGGAATTGACAGGCAGCCGCCAGT
CCTTCCAGAAGGCTATGGGGAACCCCTGCGAGTTCTTCGTGGACATCATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG217691 representing NM_004421
 Red=Cloning site Green=Tags(s)

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MAETKIIYHMDEEETPYLVKLPVAPERVTLADFKNVLNRPVHAYKFFFKSMDQDFGVVKEEIFDDNAKL
PCFNGRVVSWL VLAEGAHS DAGSQGTD SHTDLPPPLERTGGIGDSRPPSFHPNVASSRDGMNETGTESM
VSHRRERARRRNREEAARTNGHPRGDRRRDVLPPDSASTALSSELESSSFVDSDEEDGSTSRLSSSTEQS
TSSRLIRKHKRRRRKQRLRQADRASSFSSITDSTMSLNI VTVTLNMRHHFLGISIVGQSNDRGDGGIYI
GSIMKGGAVAADGRIEPGDMLLQVNDVNFENMSNDDAVRVLREIVSQTGPISLTVAKCWDP TPRS YFTVP
RADPVRPIDPAAWLSHTAAL TGALPRYELEEAPLTVKSDMSAVVRVMQLPDSGLEIRDRMWLKITIANAV
IGADVVDWLYTHVEGFKERREARKYASSLLKHGFLRHTVKNITFSEQCYVYFGDLCSNLATLNLNSGSSG
TSDQDTLAPLPHPAAPWPLGQGYPYQYPGPPPCFPAYQDPGFSYSGSGTGSQQSEGSKSSGSTRSSRRA
PGREKERRAAGAGGSGSESDHTAPSGVGSSWRERPAGQLSRGSSPRSQASATAPGLPPPHTTKAYTVVG
GPPGGPPVRELA AVPELTGSRQSFQKAMGNPCEFFVDIM
  
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004421

ORF Size: 2010 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_004421.2](#), [NP_004412.2](#)

RefSeq Size: 2941 bp

RefSeq ORF: 2013 bp

Locus ID: 1855

UniProt ID: [O14640](#)

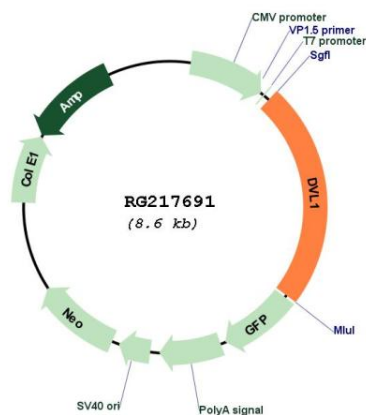
Cytogenetics: 1p36.33

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 RG217691