

Product datasheet for **RC217691**

DVL1 (NM_004421) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DVL1 (NM_004421) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DVL1
Synonyms:	DRS2; DVL; DVL1L1; DVL1P1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide
Sequence:

>RC217691 representing NM_004421
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGAGACCAAGATTATCTACCACATGGACGAGGAGAGACGCCGTACCTGGTCAAGCTGCCCGTGG
CCCCGAGCGCGTCACGCTGGCCGACTTCAAGAACGTGCTCAGCAACCGGCCCGTGCACGCCTACAATT
CTTCTTTAAGTCCATGGACCAGGACTTCGGGGTGGTGAAGGAGGAGATCTTTGATGACAATGCCAAGCTT
CCCTGTTCAACGGCCGCGTGGTCTCCTGGCTGGTCTGGCTGAGGGTGTCTACTCGGATGCGGGTCCC
AGGGCAGCGACGCCACACAGACCTGCCCCGCTCTTGAGCGGACAGGCGGCATCGGGGACTCCCGGCC
CCCCTCTTCCACCCGAATGTGGCCAGCAGCCGTGACGGGATGGACAACGAGACAGGCACGGAGTCCATG
GTCAGTACCGGGCGGAGCGTCCCGACCCGGAACCGGAGGAGCCCGCCGACCAATGGGCACCCAA
GGGAGACCGACGGCGGATGTGGGCTGCCCCAGACAGCGCTCCACCGCCCTCAGCAGCGAGCTTGA
GTCCAGCAGCTTTGTGGACTCGGACGAGGATGGCAGCAGCAGGCTCAGCAGCTCCACGGAGCAGAGC
ACCTCATCCAGACTCATCCGGAAGCACAAACGCCGGCGGAGGAAGCAGCGCTTCGGCAGGGGACCGGG
CCTCCTCCTTACGAGCATAACCGACTCCACCATGTCCCTCAACATCGTCACTGTACGCTCAACATGGA
AAGACATCACTTTCTGGGCATCAGCATCGTGGGCGAGCAACGACCGTGGAGACGGCGGCATCTACATT
GGCTCCATCATGAAGGGCGGGCTGTGGCCGCTGACGGCCGATCGAGCCCGGCGACATGTTGCTGCAGG
TGAATGACGTGAAGTTTGAAGACATGAGCAATGACGATGCCGTGCGGGTGTGCGGGAGATCGTTTCCCA
GACGGGGCCATCAGCCTCACTGTGGCCAAGTGTGGGACCAACGCCCGAAGCTACTTACCCTCCCA
CGGGTACCCGGTGGCGCCATCGACCCCGCCGCTGGCTGTCCACACGGCGGCACTGACAGGAGCC
TGCCCGCTACGAGCTGGAAGAGGCGCCGCTGACGGTGAAGAGTGACATGAGCGCCGTGCTCCGGGTCAT
GCAGTGCCAGACTCGGGACTGGAGATCCGCGACCGCATGTGGCTCAAGATCACCATCGCCAATGCCGTC
ATCGGGGCGGACGTGGTGGACTGGCTGTACACACAGTGGAGGGTTCAAGGAGCGGCGGAGGCCCGGA
AGTACGCCAGCAGCTTGCTGAAGCACGGCTTCTGCGGCACACGGTCAACAAGATCACCTTCTCCGAGCA
GTGCTACTACGTCTTCGGGATCTCTGCAGCAATCTCGCCACCCTGAACCTCAACAGTGGCTCCAGTGGG
ACTTCGGATCAGGACACGCTGGCCCGCTGCCCAACCGGCTGCCCTGGCCTCTGGGTGAGGGTACC
CCTACCAGTACCCGGGACCCCACTGCTTCCCGCTGCCTACCAGGACCCGGGCTTTAGCTATGGCAG
CGGCAGCACCGGAGTACGACAGTGAAGGAGCAAAAGCAGTGGTCCACCCGGAGCAGCCCGCGGCC
CCGGCCGTGAGAAGGAGCGTGGGCGGCGGGAGCTGGGGCAGTGGCAGTGAATCGGATCACACGGCAC
CGAGTGGGGTGGGAGCAGTGGCGAGAGCGTCCGGCCGCGCAGCTCAGCCGTGGCAGCAGCCACGAG
TCAGGCCCTCGGCTACCGCCCGGGGCTCCCCCGCCCCACCCACGACCAAGGCCTATACAGTGGTGGGG
GGGCCACCCGGGGACCCCTGTCCGGGAGTGGCTGCCGTCCCCCGGAATTGACAGGCAGCCGCCAGT
CCTTCCAGAAGGCTATGGGAACCCCTGCGAGTTCTTCGTGGACATCATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC217691 representing NM_004421
 Red=Cloning site Green=Tags(s)

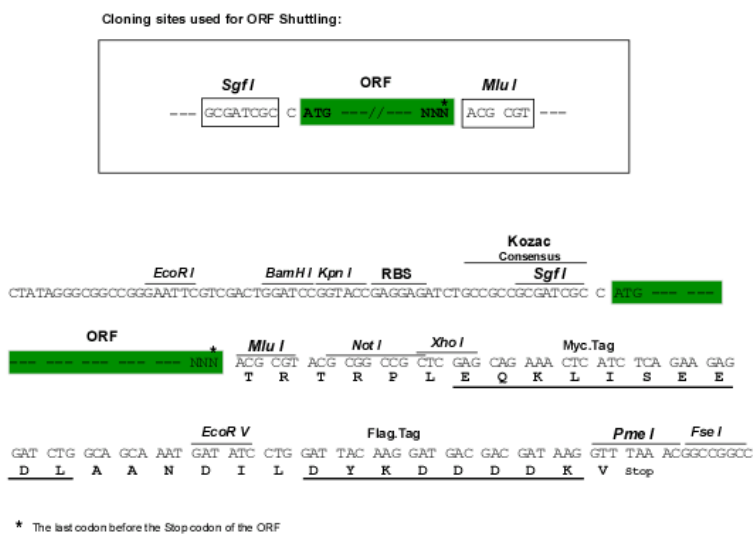
MAETKIIYHMDEEETPYLVKLPVAPERVTLADFKNVL SNRPVHAYKFFFKSMDQDFGVVKEEIFDDNAKL
 PCFNGRVVS WL VLAEGAHS DAGS QGTD SHTDLP PPLERTGGIGDSRPPSFHPNVASSRDGMDNETGTESM
 VSHRRERARRRNREEAARTNGHPRGDRRDVGLPPDSASTALSSELESSSFVDSDEDEGSTRSSSTEQS
 TSSRLIRKHKRRRRKQRLRQADRASSFSITDSTMSLNI VTVTLNMERHHFLGISIVGQSNDRGDGGIYI
 GSIMKGGAVAADGRIEPGDMLLQVNDVNFENMSNDDAVRVLREIVSQTGPISLTVAKCWDPTPRSYFTVP
 RADPVRPIDPAAWLSHTAALTGALPRYELEEAPLTVKSDMSAVVRVMQLPDSGLEIRDRMWLKITIANAV
 IGADVVDWLYTHVEGFKERREARKYASSLLKHGFLRHTVKNITFSEQCYVYFGDLCNLTALNLNSGSSG
 TSDQDTLAPLPHPAAPWPLGQGYPYQP GPPPCFPAYQDPGFSYSGSTGSQQSEGSKSSGSTRSSRA
 PGREKERRAAGAGSGSES DHTAPSGVGSWRERPAGQLSRGSSPRSQASATAPGLPPPHPTTKAYTVVG
 GPPGGPPVRELA AVPEL TGSRSFQKAMGNPCEFFVDIM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

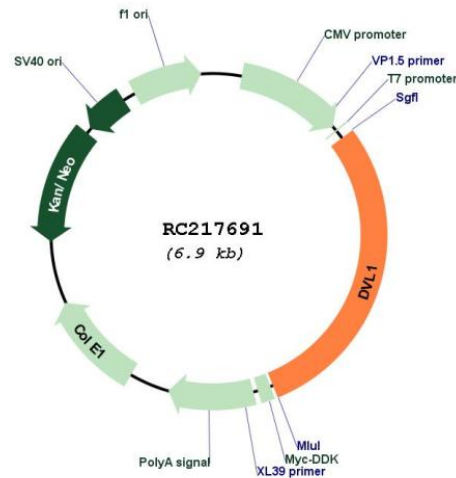
Chromatograms: https://cdn.origene.com/chromatograms/mk6166_h05.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



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:

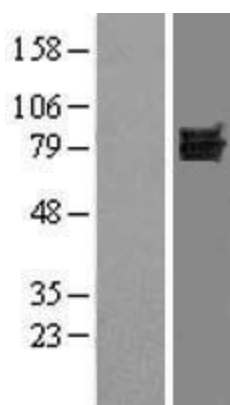
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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
MW:	72.7 kDa
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:



Western blot validation of overexpression lysate (Cat# [LY401404]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217691 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).