

Product datasheet for **RC202233**

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:	Myc-DDK
Symbol:	Dishevelled 2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC202233 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGCGGGTAGCAGCACTGGGGCGGTGGGGTTGGGGAGACGAAGGTGATTTACCACCTGGATGAGGAAG
AGACTCCCTACCTGGTGAAGATCCCTGTCCCGCCGAGCGCATCACCCCTCGGCGATTTCAAGAGCGTCCT
GCAGCGGCCCGCGGGCGCAAGTACTTTTTCAAGTCTATGGATCAGGATTTGGGGTGGTGAAGGAAGAA
ATTTAGATGACAACGCCCGCTCCCCTGCTTCAACGGAAGGGTGGTATCCTGGCTGGTGTCTCAGATA
ATCCCCAACCGAGATGGCCCTCCAGTCCATGAGCCTCGGGCAGAACTGGCGCTCCAGCCCCACCTTT
ACCTCCTTTGCCACCGAGAGGACCAGCGGCATTGGGGACTCAAGGCCTCCATCCTTCCACCCTAATGTG
TCCAGCAGCCATGAGAATCTGGAGCCTGAGACAGAAACCGAGTCAAGTGTCACTGAGGCGGGAGCGGC
CTCGCAGGAGAGACAGCAGTGGCATGGCGCTGGGGCCACAGGACTGGTGGCCCTCAAGCTGGAGCG
CCACTGGCCGGATACGAGAGCTCCTTACCCTCATGACCAGCGAGCTGGAGAGTACCAGCTGGGGGAC
TCGGACGAGGAGGACACCATGAGCAGGTTCAAGCAGCTCCACGGAGCAGAGCAGTGCCTCCCGCTCCTTA
AGCGCCACCGGGCGGAAGGAAGCAGAGGCCACCCCGCTGGAGAGGACGTCATCCTTACGACAGCTCAC
AGATTCACAATGTCTCTCAATATCATCACAGTACGCTAAACATGGAGAAGTACAACCTTCTGGGTATC
TCCATTGTTGGCCAGAGCAATGAGCGGGGAGACGGAGGCATCTACATTGGCTCCATCATGAAGGGTGGGG
CTGTGGCGGCCGACGGGCGCATTGAGCCAGGGGACATGCTTTTGCAGGTGAATGACATGAACCTTTGAGAA
CATGAGCAACGATGACGCTGTGCGGGTCTGAGGGACATTGTGCAACAAGCCTGGCCCCATTGTGCTGACT
GTGGCCAAGTGTGGGATCCCTCTCCTCAGGCCTATTTCACTCTCCCCGAAATGAGCCCATCCAGCCAA
TTGACCTGCTGCCTGGGTGCCATTCGCGGCTCTGACTGGCACCTTCCAGCCTATCCAGGTTCCCT
CTCCATGAGCACCATACATCTGGATCGTCTTTGCTGATGGCTGTGAAGGCCGGGTCTCTCCGTCCAT
ACGGACATGGCATCGGTGACCAAGGCCATGGCAGCTCCAGAGTCTGGACTGGAAGTCCGGGACCGCATGT
GGCTCAAGATCACCATCCCTAATGCCTTTCTGGGCTCGGATGTGGTTGACTGGCTCTACCATCACGTGGA
GGGCTTCTCTGAGCGGGGAGGCCCGCAAGTATGCCAGCGGGCTGCTCAAAGCAGGCCTGATCCGACAC
ACCGTCAACAAGATCACCTTCTCTGAGCAGTGTATTACGTCTTCGAGACCTCAGTGGTGGCTGTGAGA
GCTACCTAGTCAACCTGTCTCTCAATGACAACGATGGCTCCAGTGGGGCTTACAGACCAGGATACCCTGGC
TCCTCTGCTGGGGCCACCCCTGGCCCTGCTGCCACTTTCTCTACCAATACCCTGCCCCACACCCC
TACAGCCCGCAGCTCCACCCTACCATGAGCTTTCATCTTACACCTATGGTGGGGCAGTGCCAGCAGCC
AGCATAGTGAGGGCAGCCGGAGCAGTGGGTCGACACGGAGTGATGGGGGGCAGGGCGCACGGGGAGGCC
CGAGGAGCGGGCCCCGAGTCCAAGTCCGGCAGTGGCAGTGAAGTCTGAGCCCTCCAGCCAGGGGGCAGC
CTTCGGCGGGGTGGGGAAGCAAGTGGGACTAGCGATGGGGGCCCTCCTCCATCCAGAGGCTCAACTGGGG
GTGCCCTAATCTCCGAGCCACCCAGGGCTCCATCCCTATGGACCGCCCCCTGGCATGGCCCTCCCTTA
CAACCCCATGATGGTGGTATGATGCCCCACCTCCACCTCCAGTCCCTCCAGCAGTGCAGCCTCCGGGG
GCCCTCCAGTCAGAGACCTGGGCTCTGTGCCCCAGAAGTACAGCCAGCCGCAAGCTTCCACATGG
CCATGGGCAATCCAGCGAGTTCTTTGTGGATGTTATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC202233 protein sequence
Red=Cloning site Green=Tags(s)

MAGSSTGGGGVGETKVIYHLDEEETPYLVKIPVPAERITLGDFFSVLQRPAGAKYFFKSMQDFGVVKEE
 ISDDNARLPCFNRRVSWLVSSDNQPQEMAPPVHEPRAELAPPAPPLPPLPPERTSGIGDSRPPSFHPNV
 SSSHENLEPETETESVSVLRRERPRRRDSSEHGAGGHRGTGGPSRLERHLAGYESSSTLMTSELESTSLGD
 SDEEDTMSRFSSSTEQSSASRLLRHRRRRKQRPPLERTSSFSVTDSTMSLNIITVTLNMEKYNFLGI
 SIVGQSNERGDGGIYIGSIMKGGAVAADGRIEPMMLLQVNDMNFENMSNDDAVRVLRLDIVHKPGPIVLT
 VAKCWDPSQAYFTLPRNEPIQPIDPAAWVSHSAALTGTFPAYPGSSSMSTITSGSSLPDGCEGRGLSVH
 TDMASVTKAMAAPESGLEVRDRMWLKITIPNAFLGSDVVDWLYHHVEGFPERREARKYASGLLKAGLIRH
 TVNKITFSEQCYVFGDLGGCESYLVNLSLNDNDGSSGASDQDTLAPLPATPWPLPTFSYQYPAPHP
 YSPQPPPYHELSSYTYGGGSASSQHSEGRSSGSTRSDGGAGRTGRPEERAPESKSGSGSESESPSSRGG
 LRRGGEASGTSDDGPPSRGSGTGGAPNLRAHPGLHPYPPPGMALPYNPMMVMPPPPPPVPPAVQPPG
 APPVRDLGSPPELTASRQSFHMAMGNPSEFFVDVM

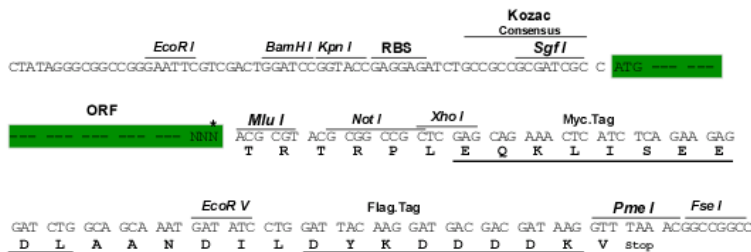
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6088_g06.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_004422

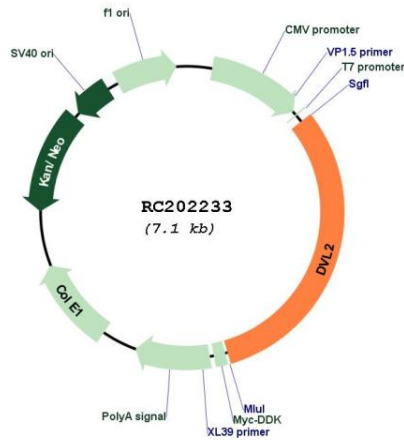
ORF Size: 2208 bp

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](#)

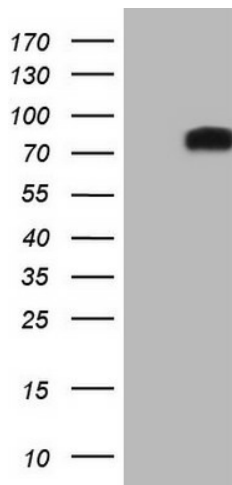
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<ol style="list-style-type: none">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
MW:	78.9 kDa
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]

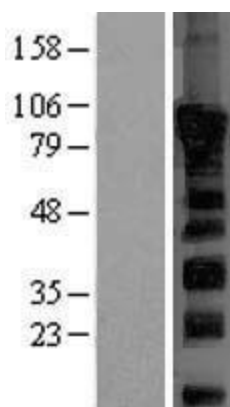
Product images:



Circular map for RC202233



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY DVL2 (Cat# RC202233, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-DVL2 (Cat# [TA806917]). Positive lysates [LY401405] (100ug) and [LC401405] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY401405]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202233 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).