

## Product datasheet for **RC207100**

### Dishevelled 3 (DVL3) (NM\_004423) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dishevelled 3 (DVL3) (NM_004423) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dishevelled 3
Synonyms:	DRS3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC207100 representing NM\_004423  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGCGAGACCAAGATCATCTACCACTTGGATGGGCAGGAGACGCCGTACCTTGTGAAGCTGCCCTGC  
 CCGCCGAGCGCGTCACCTTGGCGGACTTTAAGGGCGTTTTGCAGCGACCCAGCTATAAGTTCTTCTCAA  
 GTCTATGGACGACGATTTTCGAGTGGTGAAGGAGGAGATCTCGGATGACAATGCCAAGCTACCATGCTTC  
 AATGGCCGGTGGTGTCTGGCTGGTGTGAGTGGGCTCACACCCAGACCCAGCCCCCTTCTGTGCTG  
 ATAACCCATCGGAGCTGCCACCACCTATGGAGCGCACGGGAGGCATCGGGGACTCCCAGCCCCATCCTT  
 CCACCCTCATGCTGGTGGGGCAGCCAGGAGAACCTGGACAATGACACAGAGACGGACTCTTTGGTGTCT  
 GCCCAGCGAGAGCGGCCACGCCGAGGGATGGCCAGAGCATGCAACCCGGCTAAATGGAAGTGCAGAGG  
 GGAACGGCGGCGAGAACCAGGGGTTATGATAGCTCATCCACCCTTATGAGCAGTGAGCTGGAGACCAC  
 CAGCTTCTTTGACTCAGATGAGGATGACTCCACCAGCAGTTTCCAGCAGTCCACAGAACAGAGCAGTGCC  
 TCACGCCTGATGAGAAGACACAAGCGGCCGGCGGAAGCAGAAGTTTTCTCGGATTGAGCGGTCTCGT  
 CCTTCAGCAGCATCACGGACTCCACCATGTCACTCAACATCATCACGGTCACTCTCAACATGGAAAAATA  
 TAATTCTTGGGCATCTCCATTGTGGGCCAAAGCAACGAGCGTGGTGACGGCGGCATCTACATTGGCTCT  
 ATCATGAAGGGTGGGGCCGTGGCTGCTGATGGACGCATCGAGCCAGGAGATATGTTGTTACAGGTAACG  
 AGATCACTTTGAGAATGAGTAAATGACGATGCAGTCCGGGACTGCGGGAGATTGTGCACAAACCGGG  
 GCCCATCACCTGACTGTAGCCAAGTGTGGGACCAAGTCCACGTGGTTGCTTCACATTGCCAGGAGC  
 GAGCCCATCCGGCCATTGACCTGCGGCTGGGTCTCCACACTGCAGCCATGACCGGCACCTTCCCTG  
 CATACGGCATGAGCCCCCTCCCTGAGCACCATCACCTCCACCAGTCCCTCCATCACCAGTTCACCTGCA  
 CACAGAGCGCCTAGACGACTTCCACTTGTCCATCCACAGTGACATGGCTGCCATCGTAAAAGCCATGGCC  
 TCCCTGAATCAGGGTTGGAGGTCGGTACCGCATGTGGCTCAAGATTACCATCCCTAATGCTTTCATCG  
 GCTCAGATGTGGTGGACTGGCTGTACCACAATGTGGAAGGCTTACGGACCGGAGGGAGGCCCGCAAGTA  
 TGCCAGCAACCTGCTGAAAGCTGGCTTCCATCCGCCATACCGTCAACAAGATCACCTTCTCCGAGCAGTGC  
 TACTACATCTTCGGTACCTCTGCGGCAACATGGCCAACCTGTCTCTCCAGCATCAGATGGCTCCAGTG  
 GCGCTCTGACCAGGACACACTGCCCCCTTGGCCACCCGGGGCCGCCCTTGGCCATGGCTTTCC  
 GTACCAGTACCCGCCACCCCGCACCCATAACAACCGCACCCGGGCTTCCCGAGCTGGGCTACAGCTAC  
 GCGGGGGCAGCGCCAGCAGTCAACACAGCGAAGGCAGTCCGAGCAGTGGCTCCAACCGTAGCGGCAGCG  
 ATCGGAGGAAGGAGAAGGACCCGAAGGCCGGGACTCCAAGTCCGGGGCAGCGGCAGCGAATCGGACCA  
 CACCACACGCAGCAGCTGCGGGGGCCGCGGGAGCGGGGCCCCAGCGAGCGCTCAGGGCCGGCGGCCAGC  
 GAGCACAGCCACCGCAGCCACCATTCCTGGCCAGCAGCCTTCGAGCCACCACACACCCGAGCTACG  
 GTCCTCCCGGAGTGCCCCCTCTCTACGGCCCCCATGCTGATGATGCCCGCCGCCCGGCCATGGG  
 GCCCCAGGAGCCCTCCGGGCCGACCTGGCCTCAGTGCCCCCGAAGTACCGCCAGCAGACAGTCC  
 TTCCGATGGCCATGGGAAACCCAGTGAGTCTTTGTGGATGTGATG

**ACGGT**ACGGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC207100 representing NM\_004423  
Red=Cloning site Green=Tags(s)

MGETKIIYHLDGQETPYLVKLPAPAEVTLADFKGVLQRPYSYKFFFKSMDDDFGVVKEEISDDNAKLPCF  
 NGRVVSWLVS AEGSHDPAPFCADNPSELPPMERTGGIGDSRPPSFHPHAGGGSQENLNDTETDSLVS  
 AQRERPRRRDGEHATRLNGTAKGERRREPGGYDSSSTLMSSELETTSFDFDDEDSTSRFSSSSEQSSA  
 SRLMRRHKRRRRKQKVSRIERSSSFSSITDSTMSLNIITVTLNMEKYNFLGISIVGQSNERGDGGIYIGS  
 IMKGGAVAADGRIE PGDMLLQVNEINFENMSNDDAVRVLREIVHKPGPITLTVAKCWDPSPRGCF LPRS  
 EPIRPI DPAAWVSHTAAMTGTFPAYGMSPSLSTITSTSSSITSSIPDTERLDDFHL SIHSDMAAIVKAMA  
 SPESGLEVRDRMWLKITIPNAFIGSDVVDWLYHNVEGFTDRREARKYASNLLKAGFIRHTV NKITFSEQC  
 YYIFGDL CGNMANLSLHDHDGSSGASDQDTLAPLPHPGAAPWPMAPFYQYPPPPHPYNPHPGFPELGYSY  
 GGGASASSHQSEGRSSGNSRSGDRRKEKDPKAGDSKSGGSGSESDHTTRSSLRGP RERAPSERSGPAAS  
 EHSRSHSLASSLRSHHTPSYGGPVPPLYGPPMLMPPPPAAMGPPGAPPGRDLASVPELTASRQS  
 FRMAMGNPSEFFVDVM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mg2737\\_f01.zip](https://cdn.origene.com/chromatograms/mg2737_f01.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_004423

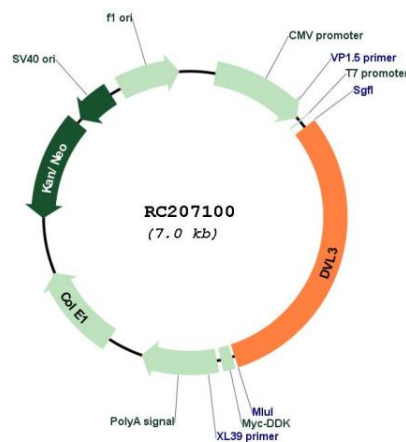
**ORF Size:** 2148 bp

**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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_004423.4</a>
<b>RefSeq Size:</b>	5062 bp
<b>RefSeq ORF:</b>	2151 bp
<b>Locus ID:</b>	1857
<b>UniProt ID:</b>	<a href="#">Q92997</a>
<b>Cytogenetics:</b>	3q27.1
<b>Domains:</b>	DEP, DAX, PDZ, Dishevelled
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS
<b>Protein Pathways:</b>	Basal cell carcinoma, Colorectal cancer, Melanogenesis, Notch signaling pathway, Pathways in cancer, Wnt signaling pathway
<b>MW:</b>	77.9 kDa
<b>Gene Summary:</b>	This gene is a member of a multi-gene family which shares strong similarity with the Drosophila dishevelled gene, dsh. The Drosophila dishevelled gene encodes a cytoplasmic phosphoprotein that regulates cell proliferation. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RC207100