

Product datasheet for **RG207100**

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:	TurboGFP
Symbol:	Dishevelled 3
Synonyms:	DRS3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG207100 representing NM_004423
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGGGCGAGACCAAGATCATCTACCACTTGGATGGGCAGGAGACGCCGTACCTTGTGAAGCTGCCCTGC
CGCCGAGCGCGTCACCTTGGCGGACTTTAAGGGCGTTTTGCAGCGACCCAGCTATAAGTTCTTCTTCAA
GTCTATGGACGACGATTTTCGAGTGGTGAAGGAGGAGATCTCGGATGACAATGCCAAGCTACCATGCTTC
AATGGCCGGTGGTGTCTGGCTGGTGTGAGCTGAGGGCTCACACCCAGACCCAGCCCCCTTCTGTGCTG
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CAGCTTCTTTGACTCAGATGAGGATGACTCCACCAGCAGTTTCCAGAGCTCCACAGAACAGAGCAGTGCC
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TAACTTCTTGGGCATCTCCATTGTGGGCCAAAGCAACGAGCGTGGTGACGGCGGCATCTACATTGGCTCT
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GTCCTCCCGGAGTGCCCCCTCTCTACGGCCCCCATGCTGATGATGCCCCCGCCCGCCGCGCCATGGG
GCCCCAGGAGCCCTCCGGGCCGACCTGGCCTCAGTGCCCCCGGAAGTACCGCCAGCAGACAGTCC
TTCCGATGGCCATGGGAAACCCAGTGAGTTCCTTGTGGATGTGATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

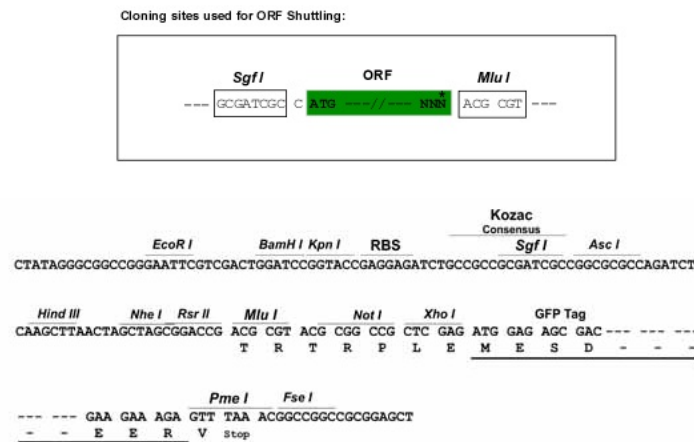
Protein Sequence: >RG207100 representing NM_004423
 Red=Cloning site Green=Tags(s)

MGETKIIYHLDGQETPYLVKLPAPAEVTLADFKGVLQRPSYKFFFKSMDDDFGVVKEEISDDNAKLPCF
 NGRVSVLWLSAEGSHDPAPFCADNPSELPPMERTGGIGDSRPPSFHHPAGGGSQENLNDTETDSLVS
 AQRERPRRRDGEHATRLNGTAKGERRREPGGYDSSSTLMSSELETTSFSDDEDSTSRFSSSTEQSSA
 SRLMRRHKRRRRKQKVSRIERSSSFSSITDSTMSLNIITVTLNMEKYNFLGISIVGQSNERGDGGIYIGS
 IMKGGAVAADGRIE PGDMLLQVNEINFENMSNDDAVRVLREIVHKPGPITLTVAKCWDPSPRGCFTLPRS
 EPIRPIDPAAWVSHTAAMTGTFPAYGMSPLSTITSTSSSITSSIPDTERLDDFHL SIHSDMAAIVKAMA
 SPESGLEVRDRMWLKITIPNAFIGSDVVDWLYHNVEGFTDRREARKYASNLLKAGFIRHTVNKITFSEQC
 YYIFGDL CGNMANLSLHDHDGSSGASDQDTLAPLPHPGAAPWPMAPFYQYPPPPHPYNPHPGFPELGYSY
 GGGSSASSQHSEGRSSGSNRSGDRRKEKDPKAGDSKSGGSGSESDHTTRSSLRGP RERAPSERSGPAAS
 EHSRSHHSLASSLRSHHTPSYGPPGVPLYGPPMLMPPPPAAMGPPGAPPGRDLASVPELTASRQS
 FRMAMGNPSEFFVDVM

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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.

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_004423.4](#)

RefSeq Size: 5062 bp

RefSeq ORF: 2151 bp

Locus ID: 1857

UniProt ID: [Q92997](#)

Cytogenetics: 3q27.1

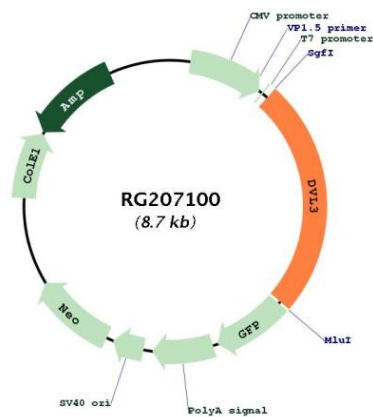
Domains: DEP, DAX, PDZ, Dishevelled

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

Gene Summary: 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 RG207100