

## Product datasheet for **SC128046**

### Dishevelled 2 (DVL2) (NM\_004422) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dishevelled 2 (DVL2) (NM_004422) Human Untagged Clone
Tag:	Tag Free
Symbol:	Dishevelled 2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC128046 sequence for NM\_004422 edited (data generated by NextGen Sequencing)

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ATGGCGGGTAGCAGCACTGGGGCGGTGGGGTTGGGGAGACGAAGGTGATTTACCACCTG
GATGAGGAAGAGACTCCCTACCTGGTGAAGATCCCTGTCCCCGCCGAGCGCATCACCTC
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TTCAACGGAAGGGTGGTATCCTGGCTGGTCCCTCAGATAATCCCCAACCCGAGATGGCC
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CCACCCGAGAGGACCAGCGCATTGGGGACTCAAGGCCTCCATCCTTCCACCCTAATGTG
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CGGGAGCGGCCTCGCAGGAGAGACAGCAGTGGCAGTGGCGCTGGGGGCCACAGGACTGGT
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CACCCAGGGCTCCATCCCTATGGACCGCCCCCTGGCATGGCCCTCCCCTACAACCCCATG
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GCCCTCCAGTCAGAGACCTGGGCTCTGTGCCCCAGAAGTACAGCCAGCCGCAAGG
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Clone variation with respect to NM\_004422.2

<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_004422 unedited</p> <pre>GCCACAGGAGCTACACGAATACCACAGGGCGGCCGAAACGGCACGAGGGGGCGGCGGA GCCCGGGAGCGCGGGCGGAGACACGGCGGGAAGCAGCACCGGGGGCGGCGGGGACGGGG AGACGAAGGCGATCTACCACCTGGATGAGGAAGAGACTCCCTACCTGGTGAAGACCCCTG TCCCCGCCGAGCGCATCACCCCTCGGCGATTTCAAGAGCGTCTGCAGCGGCCCGGGGCG CCAAGTACTTTTTCAAGTCTATGGATCAGGATTTGGGGTGGTGAAGGAAGAAATTTGAG ATGACAACGCCCCCTCCCCTGCTTCAACGGAAGGGTGGTATCCTGGCTGGTGTCTCAG ATAATCCCAACCCGAGATGGCCCTCCAGTCCATGAGCCTCGGGCAGAAGTGGCCCTC CAGCCCCACCTTTACCTCCTTTGCCACCCGAGAGGACCAGCGGCATTGGGACTCAAGGC CTCCATCCTTCCACCCTAATGTGTCCAGCAGCCATGAGAATCTGGAGCCTGAGACAGAAA CCGAGTCAGTAGTGTCACTGAGGCGGGAGCGGCCTCGCAGGAGAGACAGCAGTGAGCATG GCGCTGGGGGCCACAGGACTGGTGGCCCTCAAGGCTGGAGCGCCACCTGGCCGGATACG AGAGTCTCTACCTCATGACCAGCGAGCTGGAGAGTACCAGCCTGGGGACTCGGACG AGAGGACACCATGAGCAGTTCAGCAGCTCCACGGAGCAGAGCAGTGCCTCCCGCCTCCTT AAGCGCCACCGGGCGGAAGAAGCAGAGGCCACCCCGCCTGAGAGGACGTCATCCTTCA GCAGCGTACAGATTCCACAATGTCTCTATATCACAGTCAGCTAAACATGGAGAA GTACACTTCTGGGTATCTCCATTGTTGGCCAGAGCAATGAGCGGGGAGACGAAGCATC TACA</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;Forward primer walk for NM_004422 unedited</p> <pre>GGGGCCCTTCCATCCATCCTCCTCATGCAGCCTCCGGGGCCCTCCATCAGAGACCTGG GCTCTGTGCCCCANAAGTACAGCCAGCCGCAAAGCTTCCACATGGCCATGGGCAATC CCAGCGAGTTCTTTGTGGATGTTATGTAGCCCACTGTGGGGCCAGGCTGGCCGGGCGCT CCTGGTGTGTGACTGGGTGTCCTGGCCGTCATGTGCTTGTCTTACAGTGCCTGGGCTCA GCCTACCAGTGTGCCATACAGGAGATTGTGGCCACTGTGACTCTACCAGCAGTGCCT GGTTCTCCCCCTTCCCTCAGGGGTAGACAAGGGACCTTTGATTATTTTAGCTTTGTTT TTTTATAAGCCTTTTGGGGTTAAAATAGAGTTTCTTACATTTTGGGACTTTTTTAAT AGGCATTTCTCTTTTATATGAAGAATCCCATCCATTGGGCCCTTCTAACCCAGAAAT GTGACCTCCTCCTCAGTTACCCACAGCCCTGCCCTTTCAGGGTTGGGGTGGTCAGCG GTACCCCGGGTTAGGCATCCTAGACAGCAGCCTGAGGAAGCTGGGAGATTTGGGCCATG TAGCTGCCTTTGTTACTCTATTTATTTTGTACTTGTATAAAACACCAATAAAGCAAT AGAGGCAAACTCAAAANANAAAAANGACAAGAAGGAAGGTGCGGAGGGCAAACTGCGCC ACACACAAAAATCCAACACAAGAAAGACCCAAAGAAAANAAGAAGCGAGACAACCCAC CTAAATAAAGAAAATCTTTTTTGTGGGGCCGGGACAATTATTTTTTCAAAAAAA ATCCGG</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_004422
<b>Insert Size:</b>	3050 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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_004422.2</a> , <a href="#">NP_004413.1</a>
<b>RefSeq Size:</b>	3046 bp
<b>RefSeq ORF:</b>	2211 bp
<b>Locus ID:</b>	1856
<b>UniProt ID:</b>	<a href="#">O14641</a>
<b>Cytogenetics:</b>	17p13.1
<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>Gene Summary:</b>	This gene encodes a member of the dishevelled (dsh) protein family. The vertebrate dsh proteins have approximately 40% amino acid sequence similarity with <i>Drosophila</i> 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]