

## Product datasheet for **SC303481**

### **DVL1 (NM\_004421) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DVL1 (NM_004421) Human Untagged Clone
Tag:	Tag Free
Symbol:	DVL1
Synonyms:	DRS2; DVL; DVL1L1; DVL1P1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

>OriGene ORF sequence for NM\_004421 edited  
 ATGGCGGAGACCAAGATTATCTACCACATGGACGAGGAGGAGACGCCGTACCTGGTCAAG  
 CTGCCCGTGGCCCCGAGCGCGTCACGCTGGCCGACTTCAAGAACGTGCTCAGCAACCGG  
 CCCGTGCACGCCTACAAATCTTCTTTAAGTCCATGGACCAGGACTTCGGGGTGGTGAAG  
 GAGGAGATCTTTGATGACAATGCCAAGCTTCCCTGCTTCAACGGCCGCGTGGTCTCCTGG  
 CTGGTCTGGCTGAGGGTGTCTACTCGGATGCGGGTCCCAGGGCACGGACAGCCACACA  
 GACCTGCCCCCGCCTCTTGAGCGGACAGGCGGCATCGGGGACTCCCGCCCCCTCCTTC  
 CACCCGAATGTGCCAGCAGCCGTGACGGGATGGACAACGAGACAGGCACGGAGTCCATG  
 GTCAGTACCGGCGGGAGCGTGCCCGACGCCGGAACCGGAGGAGGCCGCCCGGACCAAT  
 GGGCACCAAGGGGAGACCGACGGCGGGATGTGGGGTGCSCCAGACAGCGCGTCCACC  
 GCCCTCAGCAGCGAGCTTGTGAGTCCAGCAGCTTTGTGGACTCGGACGAGGATGGCAGCAG  
 AGCAGGCTCAGCAGCTCCACGGAGCAGACCTCATCCAGACTCATCCGGAAGCACAAA  
 CGCCGGCGGAGGAAGCAGCGCTTCGGCAGGCGGACCGGGCTCCTCCTCAGCAGCATA  
 ACCGACTCCACCATGTCCCTCAACATCGTCACTGTACGCTCAACATGAAAAGACATCAC  
 TTTCTGGGCATCAGCATCGTGGGCGAGCAACGACCGTGGAGACGGCGGCATCTACATT  
 GGCTCCATCATGAAGGGCGGGCTGTGGCCGCTGACGGCCGATCGAGCCCGGCGACATG  
 TTGCTGCAGGTGAATGACGTGAACCTTTGAGAACATGAGCAATGACGATGCCGTGCGGGT  
 CTGCGGGAGATCGTTTCCAGACGGGGCCATCAGCCTCACTGTGGCCAAGTGTGGGAC  
 CCAACGCCCCGAAGCTACTTCACCGTCCACGGGTGACCCGGTGCAGCCATCGACCCC  
 GCCGCTGGTGTCCACACGGCGGCACTGACAGGAGCCCTGCCCGCTACGAGCTGGAA  
 GAGGCGCCGCTGACGGTGAAGAGTGACATGAGCGCCGTCGTCCGGTTCATGCAGTGGCA  
 GACTCGGGACTGGAGATCCGCGACCGCATGTGGCTCAAGATCACCATCGCAATGCCGTC  
 ATCGGGCGGACGTGGTGGACTGGTGTACACACACGTGGAGGGTTCAAGGAGCGCGG  
 GAGGCCCGGAAGTACGCCAGCAGCTTGCTGAAGCACGGTTCCTGCGGCACACGGTCAAC  
 AAGATCACCTTCTCCGAGCAGTGTACTACGTCTTCGGGGATCTCTGCAGCAATCTCGCC  
 ACCCTGAACCTCAACAGTGGCTCCAGTGGGACTTCGGATCAGGACACGCTGGCCCCGCTG  
 CCCCACCCGGCTGCCCTTGGCTCAGGGTACCCTACCAGTACCCGGGACCC  
 CCACCCTGCTTCCCGCTGCCTACCAGGACCCGGGCTTTAGCTATGGCAGCGGCAGCACC  
 GGGAGTCAAGAGTGAAGGGAGCAAAAGCAGTGGGTCCACCCGGAGCAGCCGCCGGCC  
 CCGGGCCGTGAGAAGGAGCGTCGGGCGGGGAGCTGGGGCAGTGGCAGTGAATCGGAT  
 CACACGGCACCGAGTGGGGTGGGAGCAGCTGGCGAGAGCGTCCGGCCGGCCAGCTCAGC  
 CGTGGCAGCAGCCACGAGTACGGCTCGGCTACCGCCCGGGGCTCCCCCGCCAC  
 CCCACGACCAAGGCCTATACAGTGGTGGGGGGCCACCCGGGGGACCCCTGTCCGGGAG  
 CTGGTGCCTGCCCGGAATTGACAGGCAGCCGCGAGTCTTCCAGAAGGCTATGGG  
 AACCCCTGCGAGTTCTTCGTGGACATCATGTGA

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_004421 unedited  
 CGTCTGAATTTGTATACGACTCATATAGGGCGGCCGGAATTCGCACGAGGCGCCCCGCG  
 TCCGAGCCTCGGGCCGGGCCCTGAGCGCGGGCTCCGCGCCGCGCCGCGCCATGGCGG  
 AGACCAAGATTATCTACCACATGGACGAGGAGGAGACGCCGTACCTGGTCAAGCTGCCCCG  
 TGGCCCCGAGCGGTCACGCTGGCCGACTTCAAGAACGTGCTCAGCAACCGGCCGTGC  
 ACGCCTACAAATCTTCTTTAAGTCCATGGACCAGGACTTCGGGGTGGTGAAGGAGGAGA  
 TCTTTGATGACAATGCCAAGCTTCCCTGCTTCAACGGCCGCGTGGTCTCCTGGTGGTCC  
 TGGCTGAGGGTGTCTACTCGGATGCGGGTCCCAGGGCACGGACAGCCACACAGACTGC  
 CCCCCTCTTGAGCGGACAGGCGGCATCGGGGACTCCCGCCCCCTCCTTCCACCCGA  
 ATGTGGCCAGCAGCCGTGACGGGATGGACAACGAGACAGGCACGGAGTCCATGGTCAAGT  
 ACCGGCGGGAGCGTGCCCGACGCCGGAACCGGAGGAGCCGCCGGACCAATGGGCACC  
 CAAGGGGAGACCGACGGCGGGATGTGGGGTGCSCCAGACAGCGCGTCCACCGCCCTCA  
 GCAGCGAGCTTGTGAGTCCAGCAGCTTTGTGGNACTCGACGAGGATGGCAGCAGGAGGCG  
 TCAGCAGCNTACGGAGCAGACCTCATCCAGACTCATCCGGAAGCACAAACGCCCGG  
 CGGNAGAAGCAGCGCCTTTTCGAGGCGACCGGGCTCCTNCTCAGCAGCATAACCGAC  
 TTCACCATGT

<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_004421 unedited NCGCCGCCAGTGGAGGCAATTCGAGCCAGGAAGCATGGGGAGGGTCAAGGGTGCCCCCGG GCTCGTTCAGAAAAGCTATGACCGCGGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTT TTTAAATTAACGCTTTTTAGTGTAAAAATAAGCAGCATTTTACACAGAAGCAGCTTC TTTGTTAAACCATCTAACGCTGGGACTTTGATACAGTATCTACAGCACAGACACGTTGG GGGCCAGAGAAGCCAGGAAGGCCGCGATGTGTGCGCGCAGTGTGTGCACTCACCAAGGAC GGGCCACCTGACTGCCCATCTCCCAAGACCTCCCTCCCTGTGGCAGCTGTGCACATCGG GGCCCTTGACCTGCGGGCCATGGTCCCTCCCTGCCCTGGCTGGGACACGGTGGGCAGG ATGTCCAGCCCTCTCTCGTCTTCCGGTCCCGTCCCTCCACGTACTTTAGACTGTTGCCGG ATGGGAGGAGAGAAGGTGCAGGCTGCTCCAAGGGGCAGCAGGTTGGGACAGATGACAG GGTGCGCTCCTCCCCGAGTCACCGCCAGGCAATAAATAAATAAATTAGATCCCTACTC CAGACAGGGGGCTGTGCACCGCAGGGGTTGCCCGCGTGGACCACCCTGGGGGCTGG GCACAGCTGTGCAGGAGGTGGGGTCCAGCCGAGAGCCCGAGGGGGTCTTCTCATCCAG GAGGGATCCCACAGACACAAGGGTTTTGGGAGGTCCGAGGCTTCTCGCTGAGGGGCA GAGAGGGAGCGCCCCAACACGGTCTCAGACACAGGTGCTGTCAGGAGCTGGAGCAGC CAGGCTGCCAGGCAGATGGTGGTT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_004421
<b>Insert Size:</b>	3000 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>OTI Annotation:</b>	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
<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>	<u><a href="#">NM_004421.2</a></u> , <u><a href="#">NP_004412.2</a></u>
<b>RefSeq Size:</b>	2941 bp
<b>RefSeq ORF:</b>	2013 bp
<b>Locus ID:</b>	1855
<b>UniProt ID:</b>	<u><a href="#">O14640</a></u>
<b>Cytogenetics:</b>	1p36.33

<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>	<p>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]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice junction compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is shorter compared to isoform 1.</p>