

## Product datasheet for MC229618

### Disp1 (NM\_001278219) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Disp1 (NM_001278219) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Disp1
Synonyms:	1190008H24Rik; DispA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC229618 representing NM_001278219 Red=Cloning site Blue=ORF Orange=Stop codon

CTATAGGGCGCCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGGCCG  
GCC

ATGGCTGTGATCAGCGGAAGTACTCTGTGCTCCTGAGCAATGGCAGCATCTCGACCAGCACCTCCAACC  
CTAGTCCCCTCAGCCCCAGTGATGGAGACCTCCCAGCCCAGCACCTCGGACCCAGAGAAACCCCAAGAAC  
AAAAGCAAGCCAAATGGATGCCTGCAACTTAATGGCACAGTTAAGTCATCCTTTCTGCCTTTAGACAAC  
CAAAGAACACCTCAGACGCCAACTCAATGCTGCCACCCTTGTCATACCATCACCTGTGAGCAGCCATA  
GCAATCACCAGGAGTCCATCCCGAGGCTGGCCTTGACGCTCCCGCGCTTTGGCCTCGTGTGCGATGCA  
GCCACATCCGAATACTCTGCATCTCTGTGTCCAAACCATTACCCGTGTATCAGGCTGCGCACTGCCTT  
CAGCCCTCGCCATCTTTCTGCCTTCATCACCCGTGGCCTGACCATTTCCAGCATCAACCTGTACGGCAGC  
ACCTGACCATCATCAGGCCGTCCAGACCTTTCAAGTCCCGAGAAGTTACGCAGCCCTGTGGTGACTG  
GCCTGTGGTGGTCTGGGCATGTGCACGCTGCTCATCGTGGTCTGTGCCCTGGTGGGGTCTAGTGCCA  
GAGTCCCCGACTTCTCGGACCCGCTGCTGGGTTTTGAACCAAGAGGGACCACGATAGGACAGAGGCTGG  
TCACGTGGAATAACATGATGCGAAACACAGGGTACAAAGCAACATTGGCCAATATCCTTATAAGTATGC  
AGAGGAGCAAGCCGAAGCCACCGGGATGACCGATGGTCAGACGATCACCATGAGAGAGAGAGAAGAGAA  
GTGGACTGGAACCTCCAGAAAGACAGCTTCTTCTGCGATGTTCCAAGTGTGGATCTCCAGAGTATGT  
TTGCTTCAGCAGGAGGGGAGACTCTGTGGAATTTACCTGCAATTAAGTCGATGTGTGATGTGGATAATTC  
CAGGATCAGATCCCACCCAGTTCAGCGATCTCTGCCAGAGGACCACTGCCGTCTCCTGTGCCCGAGC  
TGGACCTGGGAATTACATCGCCATTCTGAATAACAGATCGTCTGTGAGAAGATTGTTGAGCGAGATG  
TCTCTCACACGCTGAAGCTGCTCCGACCTGCGCAAGCACTACCAAACGGCACCTGGGGCCAGACTG  
CTGGGACAAGGCGCCAGAAGGAAGGACCAGCTCAAGTGTACCAACGTGCCGCGCAAGTGTACCAAATAC  
AACCCGTGTACCAGATTCTCCACTATCTGGTAGACAAGGACTTCATGACCCCAAAGACGGCTGACTACG  
CCGTGCCAGCTTTAAAGTACAGCATGCTTCTCCCCACGGAGAAAGGGGAGAGCATGATGAACATTTA  
CCTGGACAACCTCGAAAACCTGGAACCTCTCGGACGGCATCACCACCGTCACCGGCATCGAGTTTGGCATC



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AAACACAGCTTGTTCAGGATTACCTCCTCATGGACACCGTGTACCCCGCCATCGCCATCGCCATTGTCC  
 TGCTCATCATGTGTGTCTACACCAAGTCCATGTTTCATCACGCTCATGACCATGTTTGCCATCATCAGCTC  
 GCTCATTGTCTCCTACTTCTCTACCGAGTCGTCTTAACTTCGAGTTTTTCCCTTTATGAACCTCACG  
 GCGCTCATCATCTGGTCGGGATTGGCGCGGACGACGCTTTTGTCTGTGCGACGCTGGAACACACCA  
 AGTTTCGACAAGCCTCGCGCGAAACTTCGGAGGCGGTGAGTGTACCTTCGAGCACGCGGCCCTCCAT  
 GTTTGTACCAGCTTACCACCTGCCCTGCCTTCTACGCTAACTACGTCAGCAACATCACGGCCATCAGG  
 TGCTTCGGGGTGTACGCGGGGACCGCCATATTGGTGAATTACGTTGATGGTCACCTGGCTCCCGCTG  
 TGATTGTTCTGCACGAGCGGTACCTCCTCAATATATTACCTGCTTCAGGAAGCCCCAGCCACAAGCCTA  
 CGACAAGAGCTGCTGGGAGTGTCTGTGAGAAGTCCCGCAGGGTGTCTTTGCCGTCTCAGAGGCATCG  
 CGGATTTTCTTTGAAAAGGTGCTGCCGTGCATAGTCATCAAGTTTCGCTACCTTTGGCTCATCTGGTTCC  
 TCGCCCTGACTGTGGGCGGGCCACATCGTGTGCGTAAACCCAAAGATGAAACTGCCGTGCTGGAGCT  
 GTCTGAGTTCAGGTGTTCCGGTCTCTCATCCTTTGAGCGCTATGATGCCGAGTTCAAGAAGCTCTTC  
 ATGTTTGAGCGGGTTCACCACGGAGAGGAGCTGCATATGCCATCACGGTATCTGGGGCGTGTCCCGAG  
 AAGACAGCGGCGACCCTCTGAACCCCAAGAGCAAAGGGGAGCTGACACTAGATAGCACGTTCAACATTGC  
 TAGCCCAGCCTCCAGGCTGGATTTTACACTTCTGTGAGAAGCTGAGGAATCAGACCTTCTTCCACCAG  
 ACGGAGCAGCAGGACTTACCAGCTGTTTCATCGAGACCTTCAAACAGTGATGGAGAACCAGGACTGTG  
 ACGAGCCTGCCCTGTATCCCTGTGTCAGCCACTGCAGCTTCCCTATAAGCAAGAGGTTTTGAGCTGTG  
 CATCAAGAAGGCCATCATGGAGCTGGACAGAAGCACGGGATATCATCTGAATAACAAGACCCCCGGGCCA  
 AGGTTTCGACATCAACGACACCATCAGGGCGGTGGTGTGGAGTTCAGAGCACCTTCTCTTACCCTGG  
 CCTACGAGAAGATGCAGCAGTTCTACAAGGAGGTGGACTCGTGGATTTCCACAGACTGAGTTCGGCCCC  
 CGAGGGCCTCAGCCGCGGCTGGTTTGTGAGCAACCTGGAGTTCACGACTGCAGGACAGCCTTCCGAC  
 GGCACCTCATCGCCATGGGCTCTCGGTGGCCGTTGCCCTCAGCGTATGCTGCTGACCACGTGGAATA  
 TATCATAAAGCCTGTACGCCATCGTCTCATAGCTGGAACCATATTTGTACAGTCGGGCTCCCTGTCTC  
 GCTGGGCTGGGAGCTGAACGTGCTGGAGTCCGTACCATCTCGGTGCGAGTCGGCCTGTCTGTAGACTTT  
 GCCGTCCACTACGGGTGGCGTACCGCTTGGCTCCAGATCCCAGCCGAGAAGGCAAGGTATCTTCTCTC  
 TGAGCCGTATGGGCTCTGCGATCGCCATGGCTGCACTGACCACCTTCGTGGCGGGGCCATGATGATGCC  
 CTCCACGGTCTGGCTTACACGCAGCTGGGCACGTTTATGATGCTCGTATGTGCGTGAGCTGGGCCTTC  
 GCCACCTTCTTCTCCAGTGCCTGTGTCGGTGCCTGGGGCCACAAGGCACCTGCGCCAGATCCCTTTCC  
 CTACAAAACCTCCAGTGCAGTCCCTTTCCACACCTTGTCTGCAAGGCCTGGGGACAGGGGACCAAGCAA  
 AACACATGCCGCCAGTGCATACAGCGTAGATGCCAGGGCCAGAAATCCCAACTGGAGCATGAGTTTTAC  
 GAGTTACAGCCCCTGGCATCTCACAGTGCCTTCTCGGAGAAGACTACGTACGAAGAGCCACACACCT  
 GCTCCGAATTTTCAACGGCCAAGCAAAGAATTAAGGATGCCTGTGCCTGCAGCCTACAGCAGCGAACT  
 CACCAAAAGCCCCAGCAGTGAAGCCAGGCTCAGCCTTGGTGCAGTCTGTCTGGAGCAGGACACCGTGTGC  
 CATTCTCTCTCAATCCGAGATGTAAGTCCGAGACGCCTACACACACTTACAGTACGGATTACCAGAAA  
 TCCACTGCCAGCAGATGGGTGACTCCTTATGCCACAAGTGTGCCTCCACTGCAGGCGGCTTTGTCCAGAT  
 TCAGAGTTCGGTGGCACCTCTGAAGGCCTCACACCAAGCCGCGAGGGCCTTCTGCACCTGCCAGCAC  
 ATGCTGCCCCAGGGATGCAGAATCTCGGCCTAGGAATTTCTTCTCCACTCAGTGCAGCACTTTCAGG  
 CCCAAGAAAACCTGGGTGCGACACAGCACACAGCACGGATGAGCGTCTCCAGGACAGCAGAGCTGTC  
 ACCGCCACCGTCTGACAGCAGGAGCACTGAGTCTTCCAAAGAGCTTGTGCCATCCTGAGAATAACCAA  
 AGGAGACTCTGCAAAAGTAGAGACCCAGGGGACACAGAGGGCAGTGGAGGGACAAAATCCAAGTCTCTG  
 GTTTACCAAACAGACTGACAAGGAGGAGAAGCAAGTGGAGCAGCAAGCCTGCTGCAGACCGATGAACTGT  
 GAACTCAGAACATTTAAATCATAACGAATCAAACCTTACATTACGCCATTTACCAGGGGAGGCTGGCTGC  
 AGGTCCTGCCAAACAGTCCACAGAGTTGTAGAAGCATCATGAGATCGAAGTGCAGGACTGAGGACTGCC  
 AGACGCCAAACCTTGAAGCCAATGTGCCTGCTGTACCAACACACTCAGACCTGTCTGGCGAGAGTCTGTT  
 AATAAAAAACATAAA

ACGGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

Ascl-MluI

**ACCN:**

NM\_001278219

<b>Insert Size:</b>	4566 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>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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>NM_001278219.1, NP_001265148.1</u>
<b>RefSeq Size:</b>	4902 bp
<b>RefSeq ORF:</b>	4566 bp
<b>Locus ID:</b>	68897
<b>UniProt ID:</b>	<u>Q3TDN0</u>
<b>Cytogenetics:</b>	1
<b>Gene Summary:</b>	<p>Functions in hedgehog (Hh) signaling. Regulates the release and extracellular accumulation of cholesterol-modified hedgehog proteins and is hence required for effective production of the Hh signal. Synergizes with SCUBE2 to cause an increase in SHH secretion (PubMed:22902404). [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR, compared to variant 1. Variants 1, 2, 3, and 4 encode the same protein.</p>