

## Product datasheet for **MC229028**

### **Dsc3 (NM\_001291809) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Dsc3 (NM_001291809) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dsc3
Synonyms:	5430426I24Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC229028 representing NM\_001291809  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTGGTTCCTGAGTTCGGAGCCACAGTGCAGGGCACTATGCACGAAGCTGCTGCTGACCCCTCTGGG  
 TCTTCAGTTTTGTTGGTGAAGCCTGAAAAAGGTGACATTTTCATGTACCTTCAACACTAGAGGCAGACAA  
 GATCATCGGAAGAGTTAGTTTGAAGAGTGTCTCAGCTCGGCAGATGGCATCATGCCAAGTGATCCCTGAT  
 TTCAGAGTTCTAGATGATGGGTCAAGTTATCCGACCAGAGCTGTTGTATTGTCTGATGAGAAAAGATCTT  
 TTACCATTCACTTTCTGATTCAAAGATGCAGACACAGAAAGAGATCCCTGTAATCCTGGAGCACAAGAA  
 GAAGGTACTGAAGAAAAGACACACTAAGGAAACTGTCCTCAGAAGATCTAAGAGAAGATGGGCACCCATT  
 CCATGTTCAATGCAAGAAAATTCCTTGGGTCCCTTCCATTGTTTCTCAACAGGTTCACTCTGATGCAG  
 CTCAGAACTACACAGTCTTCTATCAATAAGTGGGCGTGGAGCTGATCAAGAACCCTTAACTGGTTTTT  
 CATCGAGAGAGACTGGGAATCTATATTGTACTCGGCCTGTGGATCGTGAGGAATATGATGTTTTTGAT  
 TTGATTGCCTATGCATCCACTGCAGATGGCTATTCAGCAGATTTACCTCTCCCACTGCCATCAAATAG  
 AGGATGAAAAATGACAATTACCCTCTTTTACAGAAGCAATTTATGCTTTTGAAGTTCCAGAAGGCAGTAG  
 ACTTGGTACTGTAGTGGGAACAGTTTGTGCCACGGATAAAGATGAGCCTGACACTATGCACACACGCCCTC  
 AAGTACAGCATCTTGGAGCAGACCCACCATCACCTGGGCTTTTTCTGTGCACCCTGACACAGGTGTCA  
 TCACCACCGTCTCTCACTACATGGACAGAGAGGTCGTGGACAAGTACAACTGATAATGAAAAGTTCAAGG  
 CATGAATGGCCAAATTTTTGGACTAATCAGTACATCAACTGTATCATAACTGTGCAAGATTCCAATGAC  
 AATGCACCCACATTGAGCAAAAATACTTATGAACTGCTGTGGAGGAAAAACATATAATGTTGAAATCT  
 TGCCGATACCTGTAGATGATAAGGACATGATTAACTGCAACTGGAAGGCAAAATTTCCACCTTTAAA  
 AGGAAATGAAAAATGGATGGTTCAAATCAACACAGACCCAGTGACAAATGAAGGTGTTCTGTGTGTGTG  
 AAGCCACTGGATTATGAAGAAAATCGTCAAGTACCCTAGAGATTGGTGTGAACAACGAAGCTCCATTCA  
 TAAAGATGTTGCAAACCGAATCCACCATGAACCGGGCTATGGTTACAGTACATGTGAAGGATCAGAA  
 TGAGGGGCCAGAATGCAAGCCCCAGAGCAATATGTGCGGATCAAAGAGAACTCAGCAGTTGGGTCTAAG  
 ATCAATGGCTACAAGGCCTACGACCCTGAAACCAAGAATAGCAATGGCTTAAAGTACAAAAAATTCAGG  
 ATCCTAAAGACTGGGTGAGCATTGAAGAAGTTTCGGGGTTGCTTACCATATCAAAAACCTAGACAGAGA  
 AATAATGGCTCCAAGAAATGACATGTACAATATTACAGTCATGGCAATTGACCAAGAGGGTAAATCATGC  
 ACAGGAACACTTGCAGTGAACATCGAGGATGTGAATGACAACGCACCAGAGATAATCAAGATTATATTG  
 TTATCTGTAAGCCAAAGATGGGGTACACGGACATTTCACTGTGGATCCTGATGAACCTATCCATGGCCC  
 TCCCTTTCAGTTCAACTGGCAAACACTTCTCCAGAAGTCAACAGAATCTGGACCCTCAACCAAGTTAAT  
 GATACAGCTGCTCGCCTGTCTATCAGAAAACCTGCGGATGTTCAAATATACAACGTTCTGTTACTGTAA  
 AAGACAGAGCAGGCCAATCTGCAACCAAAATCTTGAGAGTTAACCTGTGTGATTGTACTCATCCAGCCA  
 ATGTCCGCTCAGATCAAGGAGTGCAGGAATTACCCTGGGAAAGTGGGCCATCCTTGCCATCTTGCTGGGC  
 ATTGCTCTGCTATTTTCGGTACTGCTAACTTTGGTATGTGGAGTTGTTACTGCCCGAAAAGGAAAACACT  
 TCCCTGAAGATTTAGCGCAGCAAACTTAATTATCAAATACCGAAGCACCTGGGGATGACAGAGTGTG  
 CTCTGCCAATGGATTACCACCCACACTGCCAACCACTCCAGCCAAGGCTTCTGTGGTACAATGGGGTCA  
 GGAATGAGGAATGGTGGGCAGGAGACCATCGAGATGATGAAAGGACACCAGACCTTGACTCCTGCCGTG  
 TGGCCGGGCATACCATACCCTGGACTCCGGCAGGGGAGGACACATGGATCTGACAACCTGCAGATACAC  
 ATACTCAGAGTGGCACAGTTTCACTCAACCCGACTTGGTGAAGACTCCATTAGAGGACACACTGGT**TAA**

**ACGGGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001291809  
**Insert Size:** 2520 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><a href="#">NM_001291809.1</a></u> , <u><a href="#">NP_001278738.1</a></u>
<b>RefSeq Size:</b>	5348 bp
<b>RefSeq ORF:</b>	2520 bp
<b>Locus ID:</b>	13507
<b>UniProt ID:</b>	<u><a href="#">P55850</a></u>
<b>Cytogenetics:</b>	18 11.11 cM
<b>Gene Summary:</b>	<p>This gene encodes a member of the cadherin family of proteins that mediates adhesion in desmosomes. Together with desmogleins, the encoded protein forms the transmembrane core of desmosomes, a multiprotein complex involved in cell adhesion, organization of the cytoskeleton, cell sorting and cell signaling. Mice lacking the encoded protein exhibit a pre-implantation lethal phenotype. This gene is located in a cluster of desmosomal cadherin genes on chromosome 18. This gene encodes distinct isoforms, some or all of which may undergo similar processing to generate the mature protein. [provided by RefSeq, Jul 2016]</p> <p>Transcript Variant: This variant (2) contains an alternate exon in the 3' end compared to variant 1. The resulting isoform (2) has a shorter and distinct C-terminus compared to isoform 1. This isoform (2) may undergo proteolytic processing similar to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>