

## Product datasheet for **MC229105**

### **Dsc1 (NM\_001291804) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Dsc1 (NM_001291804) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dsc1
Synonyms:	1110020A10Rik; AI507491; Dsc
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC229105 representing NM\_001291804  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCTGTGGCCTGTGCTGCCCCAGGGAGCACCTTCTCTAAGCAGCTCCTTTTCTTCTCCTGGTTCTGG  
 TATTATTTTGTGATGCCTGTCAAAAAGTTCCCTTCACGTTCCCTCTCATCTTAAGGCTGAAACACCTGT  
 AGGCAAAGTGAATCTGGAAGAGTGTCTCAAATCACCCAGCCTGATCCTGTCCAGTGACCCAGCCTTCAGA  
 ATTCTAGAAGACGGCACAATTTACACAACACATGACCTGCTTTTGTCTTCTGAAAAGAGGGGGTTCTCCA  
 TCTTGCTCTCAGATGGTCAAGGGCAGGAACAAAAGAAGCTAGAAGTTGTACTGTCAGCAAGAGAAAAAAA  
 GGTTTTTAGGAAAAGACATACCAAAGAGCCAGTACACAACCGCAGTAAGAGAAGATGGGCTCCTATTCCA  
 TGTTCACTGATGGAGAACTCTTTGGGTCCATTTCCACAACACATTGAGCAGATCCAATCTGATGCTGCC  
 AGAATTACACCATCTTTACTCTATCAGTGGACCAGGAGTAGACAAAAGAGCCTTACAATTTGTTCTACAT  
 AGAGAAAAGACACCGGGGACATCTATTGTACCCGAAGCATTGACCGTGAACAGTATGACCAATTTTGGTA  
 TATGGATATGCAACAACCTGCTGATGGCTATGCCCCAGACTACCCTCTCCCCTGCTGTTTAAAGTTGAAG  
 ATGACAATGACAATGCCCATATTTTGAACCAATTAACAGTTTTTGTGTGCCTGAAAATGGCCGATC  
 TGGAACTTCAGTGGGACAAGTACTGCCATAGACAAGGATGAGCCAGGAACTCTACACACTCGTCTGAAG  
 TACAAAATCTTACAACAATCCCAGACCAGCAAAGCCTTCTCCATCCACCCAGACACAGGTGTGATCA  
 CTACCACCACACCTTTACTGGACAGAGAGAAAATGTGACACTTACAAGCTAGTGATGGAGGTACGAGACAT  
 GGGGGCCAGCCCTTTGGTCTGTTCAACCACAGGAACAATCACCATCTCACTGGAGGATGAGAATGACAAC  
 TCGCCATACTTCACCCAAACCTTTATACTACAGAAGTAGAAGAAAACAGAATTGATGTTGAGATTCTGA  
 GAATGGTGGTGCACGACCAAGATTTGCCAACACCCCCCACTCGAAGGGGTATACACAATCCTAAAGGG  
 GAACGAAAACGGGAACCTTCAAAAATCACAAACGGATCCAAAATACAAAATGAAGGGGTCTTGTGTGTGCAAG  
 CCACTGAACTATGAAGTCAAGCCCAAGTCACTCTGCAAATGGTGTCTTAATGAAGCCCAAGTCACTA  
 ACGCTGCCAACGCACAACCACCAACAATGTGCACCACAACCTGTCCTGTGAAAATTAAGACAGAGATGA  
 GGGCCCTGAGTGCAGCCACCAGTCAAAGTCAATCAGAGCAAAGATGGACTGCCAGCGGGCCAAGAGCTC  
 CTGGGCTACAAAGCGGTGGACCCAGAGACAAGCAGTGGTGAAGGCTTAAGGTATGAGATGGTAGGAGATG  
 AAGATAATTGGTTTGGATTAACAAAATCACCGGAGACTTGAGAAGTGTGAAAGTACTGGACAGAGAGTC  
 GAAGTTTGTGAAAACAACCAAGTACAATATTTAGTAGTGGCGACAGATACAGCTGGCCGATCTTGACACA  
 GGAACACTGGTAGTTCTTCTGGAAGATTTAATGACCACCCACCAGATTGACAAGGAAGTGACCATTT  
 GTCAGCAGGAGAAGGATTTTGTGTTTTGGAACCTATAGATTTAGATGGGCCAGATAATGGTCCACCTTT  
 TCAGTTCTCTTGATAATTTCTCCAGCAAACCTTTGGACTCTAGAATCACAGGATGGTAAACGTGCCATT  
 CTTCTGCAACGACACAATCTTAATTATAACTATTATTCTGTGCCAATCCAAATACAAGACAGGCATGGTT  
 TTTCCGAAAACATGTATTATCAGTGCAGTGTGTGACTGTACAACCTCAACAGAATGTAGAATGGCTGT  
 TAAGGAAGAGAGGGATGCTAAACCAATATAATCCTTGGGAAATGGGCCATTCTTGCCATGGTCTGGGC  
 TCTGATTGCTACTGTGCATTTTGTTTACATGCTTCTGTGTGACCACTACCAAGAGAACAGTCAAGAAAT  
 GGAAGCCAATATTAGACTCCCCACACAGACGCCAACATCTGTGATACAAGCATGTCTGTTGGGACTCTT  
 GGTGGTCAAGGAATCAAAACACAGCAAAGTTTTGAGATGGTCAAAGGAGGCCACACCTTGGAGTCCACACA  
 AGGGAGGAGTGCTAGGAGCAGCAGAGCCTGGCCGATATGCTTACACAGACTGGCAAACCTTCACTCAACC  
 TCGGCTTGGTAAAAGGTGTATTTGTGTGGCAAGCTGAAGAACAAGCATTGTGAAGACTACGTTTCGC  
 CCATATAACTATGAAGGCAAAGGCTCCATGGCTGGCTCTGTGGGCTGCTGCAGTATCGGCAGGAGGAAG  
 AAGGGCTAGAGTTTTTAGATCAATTGGAACCAAATTTAGGACATTAGCAAAGACATGTGTGAAGAAATA  
 A

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001291804

<b>Insert Size:</b>	2661 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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<u><a href="#">NM_001291804.1</a></u> , <u><a href="#">NP_001278733.1</a></u>
<b>RefSeq Size:</b>	4961 bp
<b>RefSeq ORF:</b>	2661 bp
<b>Locus ID:</b>	13505
<b>UniProt ID:</b>	<u><a href="#">P55849</a></u>
<b>Cytogenetics:</b>	18 A2
<b>Gene Summary:</b>	<p>This gene encodes a member of the cadherin family of proteins that mediates adhesion in desmosomes. The encoded preproprotein undergoes proteolytic processing to generate the mature, functional protein. Mice lacking the encoded protein exhibit epidermal fragility together with defects of epidermal barrier and differentiation. The neonatal mice lacking the encoded protein exhibit epidermal lesions and older mice develop chronic dermatitis. This gene is located in a cluster of desmosomal cadherin genes on chromosome 18. Alternate splicing of this gene results in multiple transcript variants encoding different isoforms that may undergo similar proteolytic processing. [provided by RefSeq, Jan 2016]</p> <p>Transcript Variant: This variant (1, also known as Dsc1a) represents the shorter transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>