

Product datasheet for **MC221930**

Dsc1 (NM_013504) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dsc1 (NM_013504) 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: >MC221930 representing NM_013504
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGCTGTGGCCTGTGCTGCCCCAGGGAGCACCTTCTCTAAGCAGCTCCTTTTCTTCTCCTGGTTCTGG
 TATTATTTTGTGATGCCTGTCAAAAAGTTTCCCTTCACGTTCCCTCTCATCTTAAGGCTGAAACACCTGT
 AGGCAAAGTGAATCTGGAAGAGTGTCTCAAATCACCCAGCCTGATCCTGTCCAGTGACCCAGCCTTCAGA
 ATTCTAGAAGACGGCACAATTTACACAACATGACCTGCTTTTGTCTTCTGAAAAGAGGGGTTCTCCA
 TCTTGCTCTCAGATGGTCAAGGGCAGGAACAAAAGAGCTAGAAGTTGTACTGTCAGCAAGAGAAAAA
 GGTTTTTAGGAAAAGACATACCAAAGAGCCAGTACACAACCGCAGTAAGAGAAGATGGGCTCCTATTCCA
 TGTTCACTGATGGAGAACTCTTTGGGTCCATTTCCACAACACATTGAGCAGATCCAATCTGATGCTGCC
 AGAATTACACCATCTTTACTCTATCAGTGGACCAGGAGTAGACAAGAGCCTTACAATTTGTTCTACAT
 AGAGAAAGACACCGGGGACATCTATTGTACCCGAAGCATTGACCGTGAACAGTATGACCAATTTTGGTA
 TATGGATATGCAACAACCTGCTGATGGCTATGCCCCAGACTACCCTCTCCCCTGCTGTTTAAAGTTGAAG
 ATGACAATGACAATGCCCATATTTGAAACCAAATTAACAGTTTTTGTGTGCTGAAAATTGCCGATC
 TGGAATTCAGTGGGACAAGTGAAGTGCCTATAGACAAGGATGAGCCAGGAAGTCTACACACTCGTCTGAAG
 TACAAAATCTTACAACAATCCCAGACCAGCAAAGCACTTCTCCATCCACCCAGACACAGGTGTGATCA
 CTACCACCACACCTTTACTGGACAGAGAGAAATGTGACACTTACAAGCTAGTGATGGAGGTACGAGACAT
 GGGGGGCCAGCCCTTTGGTCTGTTCAACACAGGAACAATCACCATCTCACTGGAGGATGAGAATGACAAC
 TCGCCATACTTCACCCAACTTCTTATACTACAGAAGTAGAAGAAAACAGAATTGATGTTGAGATTCTGA
 GAATGGTGGTGCACGACCAAGATTTGCCAACACCCCCCACTCGAAGGCGGTATACACAATCCTAAAGGG
 GAACGAAAACGGGAACCTTCAAAATCACAACGGATCCAAATACAAATGAAGGGGTCTTGTGTGTTGTCAAG
 CCACTGAAGTATGAAGTCAAGCCGCAAGTCACTCTGCAAATTGGTGTCTTAATGAAGCCAGTTCACTA
 ACGCTGCCAACGCACAACCAACAATGTGCACCACAAGTCACTGTGAAAATTAAGACAGAGATGA
 GGGCCCTGAGTGCCAGCCACCAGTCAAAGTCATTGAGAGCAAAGATGGACTGCCAGCGGGCAAGAGCTC
 CTGGGCTACAAAGCGGTGGACCCAGAGACAAGCAGTGGTGAAGGCTTAAGGTATGAGATGGTAGGAGATG
 AAGATAATTGGTTTGAGATTAACAAAATCACCGGAGACTTGAGAACTGTGAAAGTACTGGACAGAGAGTC
 GAAGTTTGTGAAAAACAACCAAGTACAATATTTAGTAGTGCGACAGATACAGCTGGCCGATCTTGACACA
 GGAACACTGGTAGTTCTTCTGGAAGATTTAATGACCACCCACCAGATTGACAAGGAAGTGACCATTT
 GTCAGCAGGAGAAGGATTTTGTGTTTTGGAACCTATAGATTTAGATGGGCCAGATAATGGTCCACCTTT
 TCAGTTCTCTTGATAATTCTTCCAGCAAACCTTTGGACTCTAGAATCACAGGATGGTAAACGTGCCATT
 CTTCTGCAACGACACAATCTTAATTATAACTATTATTCTGTGCCAATCCAAATACAAGACAGGCATGGTT
 TTTCCGCAAAACATGTATTATCAGTGCGAGTGTGTGACTGTACAACCTCAACAGAATGTAGAATGGCTGT
 TAAGGAAGAGAGGGATGCTAAACCAATATAATCCTTGGGAAATGGGCCATTCTTGCCATGGTCTGGGC
 TCTGCATTGCTACTGTGCATTTTGTGTTACATGCTTCTGTGTGACCACTACCAAGAGAACAGTCAAGAAAT
 GCTTCCCAGATGATGTAGCTCAGCAAAATTTAATTGTATCAAATACTGAAGGACCAGGAGAAGAGTGAC
 GGAAGCCAATATTAGACTCCCCACACAGACAGCCAACATCTGTGATACAAGCATGTCTGTTGGGACTCTT
 GGTGGTCAAGGAATCAAAACACAGCAAAGTTTTGAGATGGTCAAAGGAGGCCACACCTTGGAGTCCACA
 AGGGAGGAGTGCTAGGAGCAGCAGAGCCTGGCCGATATGCTTACACAGACTGGCAAACCTTCACTCAACC
 TCGGCTTGGTGAAGAATCCATTAGAGGACACACTCTGATTAATAAAT**TA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_013504
Insert Size: 2499 bp

OTI Disclaimer:	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).
Components:	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).
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_013504.5, NP_038532.3</u>
RefSeq Size:	5007 bp
RefSeq ORF:	2499 bp
Locus ID:	13505
Cytogenetics:	18 A2
Gene Summary:	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] Transcript Variant: This variant (2, also known as Dsc1b) 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: 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.