

Product datasheet for **MG218566**

Dsc1 (NM_013504) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dsc1 (NM_013504) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dsc1
Synonyms:	1110020A10Rik; AI507491; Dsc
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>MG218566 representing NM_013504
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGTGGCCTGTGCTGCCCCAGGGAGCACCTTCTCTAAGCAGCTCCTTTTCTTCTCCTGGTTCTGG
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 AGGCAAAGTGAATCTGGAAGAGTGTCTCAAATCACCCAGCCTGATCCTGTCCAGTGACCCAGCCTTCAGA
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 GGTTTTTGTAGAAAAGACATACCAAAGAGCCAGTACACAACCGCAGTAAGAGAAGATGGGCTCCTATTCCA
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 AGGGAGGAGTGTAGGAGCAGCAGACCTGGCCGATATGCTTACACAGACTGGCAAACCTTCACTCAACC
 TCGGCTTGGTGAAGAATCCATTAGAGGACACACTCTGATTAATAAAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG218566 representing NM_013504
 Red=Cloning site Green=Tags(s)

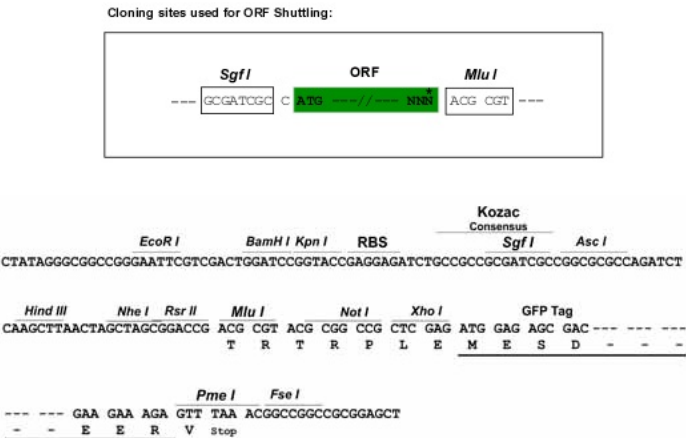
MAVACAAPGSTFSKQLLFLLVLVLFCDACQKVS LHVPSHLKAETPVGKVNLEECLKSPSLILSSDPAFR
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 SPYFTQTSYTTEVEENRIDVEILRMVVHDQDL PNTPHSKAVYTIKGNENGNFKITTDPTNEGVL CVVK
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 LGYKA VDPETSSGEGRLYEMVGDEDNWF EINKITGDLRTVKVLDRESKFVKNQYNI SVVATDTAGR SCT
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 SALLLCILFTCF CVTTTKRTVKKCFDDVAQQNLIVSNTEGPGEVTEANIRLPTQTANICDTSM SVGTL
 GGQGIKTQQSFEMVKG GHTLESHKGGVLGAAEPGRYAYTDWQTF TQPRLGEESIRGHTLIKN

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfi-MluI

Cloning Scheme:



ACCN:	NM_013504
ORF Size:	2496 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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: NM_013504.5, NP_038532.3

RefSeq Size: 3775 bp

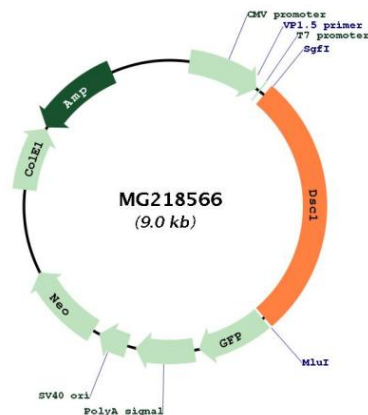
RefSeq ORF: 2499 bp

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 preprotein 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]

Product images:



Circular map for MG218566