

## Product datasheet for **MG217675**

### **Dsc3 (NM\_007882) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Dsc3 (NM_007882) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dsc3
Synonyms:	5430426I24Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide  
Sequence:**

>MG217675 representing NM\_007882  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTGGTTCCTGAGTTCGGAGCCACAGTGCAGGGCACTATGCACGAAGCTGCTGCTGACCCCTCTGGG  
 TCTTCAGTTTTGTTGGTGAAGCCTGTAAAAAGGTGACATTTTCATGTACCTTCAACACTAGAGGCAGACAA  
 GATCATCGGAAGAGTTAGTTTGAAGAGTGTCTCAGCTCGGCAGATGGCATCATGCCAAGTATGATCTGAT  
 TTCAGAGTTCTAGATGATGGGTCAAGTTTATCCGACCAGAGCTGTTGTATTGTCTGATGAGAAAAGATCTT  
 TTACCATTCACTTTCTGATTCAAAGATGCAGACACAGAAAGAGATCCCTGTAATCCTGGAGCACAAGAA  
 GAAGGTACTGAAGAAAAGACACACTAAGGAAACTGTCCTCAGAAGATCTAAGAGAAGATGGGCACCCATT  
 CCATGTTCAATGCAAGAAAATTCCTTGGGTCCCTTCCATTGTTTCTTCAACAGGTTCACTCTGATGCAG  
 CTCAGAACTACACAGTCTTCTATTCAATAAGTGGGCGTGGAGCTGATCAAGAACCCTTAACTGGTTTTT  
 CATCGAGAGAGACTGGGAATCTATATTGTACTCGGCCTGTGGATCGTGAGGAATATGATGTTTTTGTAT  
 TTGATTGCCTATGCATCCACTGCAGATGGCTATTCAGCAGATTTACCTCTCCACTGCCCATCAAATAG  
 AGGATGAAAATGACAATTACCCTCTTTTACAGAAGCAATTTATGCTTTTGAAGTCCAGAAGGCAGTAG  
 ACTTGGTACTGTAGTGGGAACAGTTTGTGCCACGGATAAAGATGAGCCTGACACTATGCACACACGCCCTC  
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 CATGAATGGCCAAATTTTTGGACTAATCAGTACATCAACTGTATCATAACTGTGCAAGATTCCAATGAC  
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 AGGAAATGAAAATGGATGGTTCAAAATCACAACAGACCCAGTGACAAATGAAGGTGTTCTGTGTGTTGTG  
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 ATCCTAAAGACTGGGTGAGCATTGAAGAAGTTTCGGGGTGTCTTACCATATCAAAAACCTAGACAGAGA  
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 ACAGGAACACTTGCAGTGAACATCGAGGATGTGAATGACAACGCACCAGAGATAATTCAAGATTATATTG  
 TTATCTGTAAGCCAAAGATGGGGTACACGGACATTTCACTGTGGATCCTGATGAACCTATCCATGGCCC  
 TCCTTTTCACTTCAACTGGCAACACTTCTCCAGAAGTCAACAGAATCTGGACCCTCAACCAAGTTAAT  
 GATACAGCTGCTCGCCTGTCTATCAGAAAATGCGGATGTTCAAATATACAACGTTCTGTTACTGTAA  
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 GACCACATCCCATCCAAGACTATGTCCTCACCTATAACTATGAAGGCAGAGGGTCTCCGGCCGGCTCTG  
 TAGGTTGCTGCAGTAAAAGCAGGAAGAAGAGGGACTTGACTTTTTAAACAACCTTGAACCCAAATTTCT  
 TACATTGGCAGAAACATGCACAAAGAGA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - **GTTTAA**

Protein Sequence: >MG217675 representing NM\_007882  
 Red=Cloning site Green=Tags(s)

MVVPEFRSPQCRALCTKLLLTLWVFSFVGEACKKVTFFHVPSTLEADKIIIGRVSLKECLSSADGIMPSPDP  
 FRVLDDGSVYPTRAVVL SDEKRSFTIQLSDSKMQTQKEIPVILEHKKKVLKRRHTKETVLRSSKRRWAPI  
 PCSMQENSLGPFPLFLQQVQSDAAQNYTVFYISISGRGADQEPLNFFFIERDTGNLYCTRPVDREEDVDFD  
 LIAYASTADGYSADLPLPLPIKIEDENDNYPLFTEAIYAFEVPEGSRLGTVVGTVCATDKDEPDTMHTRL  
 KYSILEQTPPSPGLFSVHPDTGVITTVSHYMDREVVDKYKLIMKVQDMNGQFFGLISTSTCIITVQDSND  
 NAPTFRQNTYETA VEENTYNVEILRIPVDDKDMINTANWKANFTILKGNENGWFKITTDPTVNEGVL CVV  
 KPLDYEENRQVTLEIGVNNEAPFIKDVANRIPTMNRAMVTVHVKDQNEGPECKPPEQYVRIKENSAYGSK  
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 TGTLANVIEDVNDNAPEIIQDYIVICKPKMGYTDISAVDPDEPIHGPPQFNLANTSPEVNRIWTLNQVN  
 DTAARLSYQKTADVQIYNVPVTVKDRAGQSATKILRVNLCDC THPSQCPLRSR SAGITL GKWAILLAILLG  
 IALLFVLLTLVCGVVTARKGKHFPEDLAQQNLIISNTEAPGDDRVC SANGFTTHTANNSSQGFCGTMGS  
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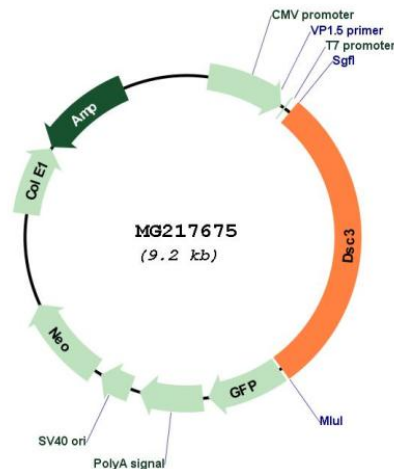
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_007882

**ORF Size:** 2688 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.

**RefSeq:** [NM\\_007882.3](#), [NP\\_031908.3](#)

**RefSeq Size:** 5305 bp

**RefSeq ORF:** 2691 bp

**Locus ID:** 13507

**UniProt ID:** [P55850](#)

**Cytogenetics:** 18 11.11 cM

**Gene Summary:**

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]