

Product datasheet for **MC223389**

Dsg1a (NM_010079) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Dsg1a (NM_010079) Mouse Untagged Clone
Tag: Tag Free
Symbol: Dsg1a
Synonyms: DG1; DGI; Dsg; Dsg1; dsg1-alpha
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC223389 representing NM_010079
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGC**

ATGGACTGGCACTCCTTCAGGATAGCTGCCCTGCTGCTCACTTCCCTGGTGGTGCCTGAAGTTAACAGTG
AATTTCAAATCCAGGTAAGAGATCATAACGCCAAAAATGGTACCATCAAGTGGCATTCCATCAGAAGGCA
GAAACGAGAATGGATCAAGTTTGTCTGCAGCCTGTCGCGAAGGTGAAGACAACCTCAAAGAGAAACCAATT
GCCAAAATTCATTCAGATTGTGCTGCAATCAACCAGTGACATACCGCATCTCGGAGTGGGAATTGACC
AGCCACCTTATGGAATCTTCATTATTAATCAAAAACTGGTGAATCAATATAACATCCATTGTTGATCG
TGAAGTCAACCCCTTTTTTATTACTACTGCCGAGCACTGAATGCACAAGGTCAAGACTTGGAGAATCCA
CTGGAGCTTAGAGTTAGAGTGATGGATATAATGACAACCTCCTGTGTTTTCAATGACTACATTTCTAG
GACAAATAGAAGAAAATCTAATGCAACACACTGGTAAATGAACTCAATGCTACCGATGCCGATGAGCC
AAATAACTTGAAGTCAATGATAGCCTTCAAGATCATAAGACAGGAGCCTTCTGACTCACCATGTTTCATC
ATCAACAGGAAAACCTGGAGAAAATCAGAACAATGAATACTTTCTAGACAGAGAGCAATATAGCCAGTATT
CCCTTGTGGTGAGAGCTCAGACCGGGACGGTGGAGCAGACGGCATGTCTGCAGAGAGCGAGTGCAGCAT
CACCATCCTGGATGCAATGACAACATCCATACTTGGAGCAGTCATCTTATGACATCACAATGAAGAA
AATGCACTTCACTCACAGCTAGTGAGATCAGAGTCAATGATTTGGATGAAGAATTCTCAGACAACCTGGA
AGGCAATCATTTTCTTTATCTCTGAAAATGAGGAAAATGGTTTAAAATGAAAATGAATGAAAGAACAAA
TGTAGAACTCTGAAGTTGTCAAGCCCTAGATTATGAAGCCATGAAGAATCTACAGCTTAGTATTGGT
GTTCCGAAATGTAGCTGAATCCACCAGTCAATATTTCTCAATACAGACTCACAGCAACTATGGTCACTG
TGACTGTGTTAAATGTCATCGAGGGCTCTGTGTTCCGTCAGGTTCAAAGACATTTGTAGTAGACAGTAG
AATGGAAGCAAATCACAGAGTGGGAGAGTTTGTAGCTACAGACCTGGACACAGGTCGAGCTTCCACAAT
GTTAGATATGAAATGGGAAAATAACCCAGAGAACCTGCTGGTTGTTGACTCAAGAACAGGCATAATAACGT
TAAGAAACAGAGTTACTATGGAACAATACCAAAGGCTTAAATGGGGAATATAAAGGAACAGTGTATCAAT
AGATGATTCCTTCAGAGGACCTGCACGGGGACAATCGTCATTGAACTTAGTGGCACTGGCTGGGTAAC
GGTTCAGAAAAGTGGTGGCAGTCCAGTGGCAGTGGCGATGATCGTGACCGAGTGACTAATGGATATCAAG



```
GCACTTCTTCCACTGAGAACCCACAACGCGTCACAGGATCATGGGGAGGCAGCGCATCGATGGCACTCG
CCCTAACACTAACCCCTTCCAAGGGGATCCTGATGAAACCCCTTGAGACCCCTCTCTATGGAGACAACGTT
CACTTCGGTCTGCAGGCATCGGGCTGCTCATCATGGGGTTCCTAGTCTTAGGATTGGTTCATTCTCTGC
TGATCTGCTGTGATTGTGGAGGGGCCCTGGTGGTGGAGCTGGATTTGAACCTGTTCCAGAATGTTCTGA
TGGAGCAATTCACACGTGGGCTGTAGAAGGGCCACAGCCTGAACCCCATGAAGGGATAACCACCATCTGT
GTGCCACAAATGCCACCTGGTAATGCCAATGTTATAGAATATATTGACAACTCAGGAGTTTATACAAATG
AATATTGTGGCAGAGAAATGCAAGATCTGGGAGGAGGAGAAAGAACCACAGGATTTGAACCTAATGGATGG
AGTTAAAACATCAGCTGCACCTGAGATATGCCAAGAATATTCAGGAACATTAAGAAGAAATCAATGAGA
GAATGTAGAGATGGGGTCTCAACATGAATTTTCATGGAAAGTTACTTCTGCCAGAAAGCCTATGCTTATG
CGGATGAAGATGAAGGACGTCCATCCAATGACTGTTTGTCTCATCTATGACATCGAAGGTGTGGGTTCCCC
TGCAGGCTCCGTGGGCTGTTGCAGTTTCATTGGAGAAGATCTAGATGAGAGCTTCTGGATACCTTGGGG
CCCAAGTTAAGAAGTTGGCAGATATCAGCCTGGGAAAAGAAATAGACTCATACCCAGATTCTGATCCTT
CTTGGCCTCTCAGAGCACTGAACCGATGTGTCCCAGCATACAGAGCCCCTGGGTAGTGGACCCACC
CATCTCCCACATTTTGGCAGACCACAGTAATTTCTGAAAATGCCTACCACTCTGGACCTGGAGTACAG
CATCCTGTACCAATTCCTGATCCTCTGGGCTATGGCAATGTCCTGTGAGGGAGTCTATACCACCTCTG
GCACTCTGAAACCCCTCTGTCCACTTTCATGATAATCAGCAGGCTTCAAATGTGGTGGTGACAGAGAGGGT
GGTGGGCCCCATCTCTGGTGTGATTTGCATGGCATGTTAGAGATACCTGACTTAAGAGGTGGAGCAAAT
GTTATAGTGACAGAAAGGTAATAGCACCAGGCTCAAGTCTACCACTTCTCTAACCAATTCCTAACCCCTC
AAGAGACCTCAAATGTAGTTGTGACAGAAAGAGTGATCCAACCAACCTCTGGCATGATAGGCAATCTGAG
CATGACCCCTGAATTATCAAGTGCCACAACGTGATTGTGACAGAGAGAGTGGTTTCTGGTGTGGTATG
AGTGAATTCAGGCACTGCCGATTAGGGGGGTTGGAGGCATAGGCAGCAGTGGCCTTGTAGACCA
CCATGGGTGCTTCTGGCACTGGGCTGAACATGGGAGGAACAGCCACTATTGGCCACATGAGGAGCTCCTC
TGACCATCACTTTAGTCAGACAGTTGGATCTGCCTCCCCAGCATGGCTCGAAGTCAATCACAAGTAC
AATACGGTACAGTATAGCAAGTAG
```

AGCGGACCGACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-RsrII
- ACCN:** NM_010079
- Insert Size:** 3174 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.
- RefSeq:** [NM_010079.2](#), [NP_034209.2](#)
- RefSeq Size:** 5627 bp

RefSeq ORF: 3174 bp

Locus ID: 13510

UniProt ID: [Q61495](#)

Cytogenetics: 18 11.29 cM

Gene Summary: This gene encodes a member of the cadherin family of proteins that forms an integral transmembrane component of desmosomes, the multiprotein complexes involved in cell adhesion, organization of the cytoskeleton, cell sorting and cell signaling. The encoded preproprotein undergoes proteolytic processing to generate a mature, functional protein. This gene is located in a cluster of desmosomal cadherin genes on chromosome 18. [provided by RefSeq, Jan 2016]