

## Product datasheet for MC222988

### Dsg3 (NM\_030596) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dsg3 (NM_030596) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dsg3
Synonyms:	bal
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC222988 representing NM_030596 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACCTGCCTCTCCCTAGAGCCTTGGGGTCTCTGGCCCTCCTGATGGTGGTGCCTGCTGGTACAGGGG  
AACTGCATGTGAAGCCGGGAGGACAGCACAGAGAAGATGGGACAGCATTGCAGCTGGCCAAAAGAAGGTA  
CAAACGTGAATGGGTGAAATTTGCAAAACCCTGCAGAGAAAGAGAAGACAACCTCAAGACGAAACCAATT  
GCCAAGATCACTTCAGATTTCAAAAAACCAGAAAATTACCTACCGCATTCTGGAGTGGGAATTGATC  
AGCCTCCCTTTGGGATCTTTGTTGTTGACCCAAACAATGGTGATATCAACATAACAGCCATAGTTGATCG  
TGAGGAAACCCCAAGCTTCTGATCACATGCCGTGCACTAAATGCCCTGGGACAGGATGTAGAGAGACCA  
CTTATATTAACAGTGAAAATTTAGACGTCAATGATAACCCTCCAATATTTTACAAACCATATTTCAAGG  
GTGAAATTGAAGAAAATAGTGCTTCAAATTCCTGGTAATGATCCTAAATGCCACGGATGCAGATGAACC  
AAACCATATGAACTCTAAAATTCCTTCAAATTTGCTCCCAGGAGCCCGCAGGCATGTCATGTTCCCTC  
ATCAGCAGAAACACCGGAGAAGTCCGCACTTTGACCAGTTCTCTTGATCGAGAGCAAATAGTAGTACC  
ATCTGGTTGTGAGCGGTGCAGACAACGATGGAACAGGACTGTCAACTCAGTGTGAATGTAGTATTAATA  
TAAAGATGTCAATGACAACTTCCAGTGCTCAGAGAGTCTCAGTATTCAGCACGTATTGAAGAAAATACT  
TTGAATGCAGAGCTACTCCGATTTCAAGTGACAGACTGGGATGAAGAATACACAGATAATTGGTTGGCTG  
TGTATTTCTCACCTCTGGGAATGAGGGGAATTGGTTTGAATTGAAACAGATCCTAGAACCAATGAAGG  
CATCCTGAAGGTGGTTAAGGCTCTGGATTATGAACAAGTGCAGAGTATGCAGTTTATGATTGCTGTCAGA  
AACAAAGCTGAGTTCACCAGTCAGTGATCTCTCAGTACCGAGTGCAGTCAACGCCAGTCACAATTCAG  
TCATTGATGTCGAGAGGGAATCTCATTCCGCTCCTTCCAAGACATTTACTGTCAAAGGGGTGTAAG  
CACTAACAAATAGTTGGTTACATCCTGGGACATACCAAGCTACTGATGAGGACACGGGTAAGCTGCC  
TCCTCTGCAGATATGCCTGGGTCGTAATGATGGTGGTTTGGCTTGTATTGATTCAAAGACTGCTCAGA  
TCAAATTTGTCAAACATCGACCGAGATTCTACTTTTCATAGTTAACAAGACAATTTCTGCTGAGGTTCT  
GGCCATAGACGAAAACACTGGTAAGACCTCCACAGGCACAATATATGTGGAAGTGCCAGTTTTAATGAA



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AACTGCCCGTCAGTTGTCTCGAGAAGAAAGACATCTGTACTTCCTCACCTTCTGTGACCCTCTCAGTGA  
 GAACCCTGGACAGGGTAAATACACTGGCCCTACACAGTGTCCCTGGAGGAGCAGCCACTGAAGCTGCC  
 AGTCATGTGGACCATCACGACGCTGAATGCTACATCAGCTCTTCTACAAGCCCAGCAGCAAGTGTCTCCA  
 GGAGTGTACAATGTCCCAGTCATCGTGAAGGACAATCAGGATGGGCTGTGTGACACACCAGAGAGCTTGA  
 CCCTGACAGTGTGTCAATGTGATGACCGGAGCATGTGCAGAGCCCTATCCCGAGCAGAGAGCCTAACAC  
 ATATGGGAGTCACTCTGGAGGCTGGGGCTGTGCCATTGGCTTGATCCTGCTAGGACTCCTGATGTTG  
 CTATTGGCCCCACTTCTGCTTCTGACCTGTGACTGTGGTCAAGTCCCATTGGAGGAGCAGCGACAGGTTG  
 GCTTTATCCCAGTGCCCGATGGTTCGGAAGGTACAATTATCAGTGGGAATCGAAGGAGCTCAGCCCGA  
 AGACAAGGAAATCACAAATATTTGTGTTCTCCAGTTACAACCAATGGAGCCGATTTTATGGAAAGCTCT  
 GAAGTTTGCACAAATACATATGCTGGTGGGACCATGGTAGAAGGTGCTTCAGGAATGGAAATGATTACCA  
 AGCTGGGAGGAGCTACTGGAGCTACAGCGGCACTTGGTCCCTGTTCTTGGGTTATTTCAGGAACAATGAG  
 AACAAAGGCATTCCACTGGAGGGACCTTGAAGGACTATGCTGCGCCAGTCAACATGACTTTCCTAGGCTCC  
 TATTTCTCTCAGAAATCACTCGCCTATGCCGAGGAAGAGGATGAGCGCGAAGTGAACGACTGTTTGTCTGA  
 TCTACGATGATGAAGGCGAGGATGCTGCCCCCACTCCCCACCCTCAGCTCCTGCAGCATTTTTGCCGA  
 TGACCTAGACGACAACCTTCTGGATTCCCTTGGCCCCAAATTTAAAAAGCTTGCAGAGATCTGTCTCGGT  
 ATTGATGACGAAGCCAAGCAAGCAAGCCAGGCCCTAAAGACAGTGGTTCCTGGGGCTGATACCTGCGCTC  
 GCTCTATGGAAGTCCCTCAGTCAGTCTAACAGGTACCAGACTTTCCTGGCAGTCTGGAAGTCAACCA  
 AACGGGTCTAAAATATGCCACACGCTGTGAGCAACCAAGAACTTCTGTTATGTCCACTTCTGGGTCT  
 GTCCACCCTGCTGTTGCCATCCCTGACCCTCTACAGCTTGGGAACACTTGTCTACAGAACTTACTCAA  
 CTTTCAGTTTCTTTCACAAACCCACCCTGTTACCTTTGACCCCATGTACACAAAAATGCTACTGTAAC  
 AGAAAGGGTCATTTGCCCCCTTCTAGTGCTCCAGCAGTATAGTGGCTCCACAGAACTGCGAGGCTCA  
 TACAATATGCTCTATACAAAAGAAACCTGTTCCCATCTA**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_030596

**Insert Size:** 2982 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\\_030596.4](#), [NP\\_085099.2](#)

**RefSeq Size:** 4138 bp

**RefSeq ORF:** 2982 bp

Locus ID: 13512

UniProt ID: [O35902](#)

Cytogenetics: 18 11.39 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. Mice lacking the encoded protein exhibit loss of keratinocyte cell adhesion resulting in a phenotype that resembles that of patients with pemphigus vulgaris. This gene is located in a cluster of desmosomal cadherin genes on chromosome 18. [provided by RefSeq, Feb 2016]