

Product datasheet for **MC223640**

Dsg2 (NM_007883) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dsg2 (NM_007883) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dsg2
Synonyms:	AA408168; D18Erttd293; D18Erttd293e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC223640 representing NM_007883 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCGGAGCCCGGGTGACCGGTGCGCCCTGCTGCTGCTGGTGCAGCTGCTGGCGGTGGTCTGCTTGG
ACTTTGGAACGGACTTCACTTAGAGGTCTTCAGCCCAAGAAATGAAGGCAAACCGTTCCCTAAGCACAC
TCACTTGGTTCGTCAAAGAGGGCCTGGATCACTGCCCTGTGGCTCTGCGGGAGGGCGAAGACCTGTCC
AGAAAGAACCCGATTGCCAAGATACACTCTGACCTTGCAAGAAAAAGGGATAAAAAATCACGTACAAGT
ACACTGGGAAGGGAATTACAGAACCGCCTTTCGGCATATTCGTCTTTGATAGAAACACAGGAGAAGTAA
CATCACTAGCATTCTTGACCGGGAAGAAACACCATATTTCTGCTGACAGGCTATGCATTGGACTCCAGA
GGAAACAACCTGGAAAAGCCCTTGGAACTACGCATCAAAGTTCTGGACATCAATGACAACGAGCCAGTGT
TCACACAGGAGGTCTTTGTTGGGTCCATTGAGGAATTGAGTGCAGCACATACACTTGTGATGAAAATCAC
CGCCACAGATGCAGATGACCCGGAGACTCTGAATGCTAAAGTCTCCTACAGAATTGTCTCTCAGGAGCCT
GCAAAATAGTCATATGTTCTACCTAAATAAAGACACGGGGGAGATCTATACGACGATTTTACTTTGGACA
GAGAGGAACACAGCAGCTATTCCTTGACGGTGAAGCAAGAGATGGTAACGGGCAGATAACAGACAAGCC
AGTCCAGCAAGCTCAAGTTCAGATCCGTATATTGGATGCAATGACAATATACCTGTGGTAGAAAAACAAA
ATGTATGAGGGGACAGTGAAGAAAAACCGGTCAATGTAGAAGTATGCGGATCAAAGTGACCGATGCAG
ATGAAGTGGGCTCTGATAACTGGCTAGCAAACCTTTACATTTGCATCAGGAAATGAAGGGGGCTATTTCCA
CATTGAGACTGACACACAGACTAATGAAGGATTGTGACCCTTGTCAAGGAAGTGGACTATGAAGAAATG
AAGAAGCTAGACTTGAGCATCATTGTCACTAACAAGCAGCTTTCCACAAGTCCATTCTGAGCAAGTACA
AGGCCACGCCATTCCCATCACTGTCAAGGTCAAGAACGTGGTTGAAGGCATTCAATTTCAAGAGCAGCGT
AGTCTCTTTCCGAGCTAGTGAGGCAATGGATAGATCCAGCCTCAGCAGGTCGATTGGAAATTTTCAAGTT
TTTGATGAAGACTGGTCAAGCAGCTAAAGTAACATATGTAAGTGAAGACTGACAAGTGGGCTCT
CTGTGGACTCCGTCACCTCAGAGATTAAGCTTGTAAAGATTCTGACTTTGAATCTAGATATGTCCAAA
TGGTACCTACACTGCAAAGTTGTGGCCATATCCAAGAACATCCTCAAAAACCATCACTGGCACCATC



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GTTATCACTGTTGAAGACGTC AATGACAATTGTCCCGTCTGGTGGACTCTGTACGGAGTGTCTGTGAGG
 ATGAACCATATGTGAATGTCACCTGCAGAGGATTTGGATGGGGCCAGAACAGTGCGCCATTCAGCTTCTC
 CATCATTGACCAGCCTCTGGAACGGCAGACAAGTGGAAAATAACGCACCAGGAAAGTACCAGTGTGCTG
 CTGCAGCAGAGCGAGCGGAAACGCGGGAGAAAGTGAAGTTCCTTCCGACAGCCAGGGCTTCA
 GCTGCCCGAAAGGCAGGTCCTTCAGCTCACTGTATGCGAGTGTCTGAAGGGCGGTGGCTGTGTGGCTG
 ACAGTATGACAACACTACGTCGGGTTGGCCCTGCCGCCATCGCTCTCATGATTCTAGCACTCCTGCTCCTG
 CTCCCTGGTCCGCTCTTGTGTTGATATGCCACTGTGGAGGGGGCCAAAGGCTTCACCCCATTCCTG
 GGACAATAGAGATGCTGCACCCCTTGAATAATGAAGGGGCACCTCTGAGGACAAGGTGGTCCATCGCT
 TCTGGTGGCCGATCATGCAGAGAGCTCGGCAGTGAGAGCGGCGTAGGAGGTGCGATGCTCAAGGAAGGC
 ATGATGAAAGGCAGCAGCTCAGCTTCCGTTACCAAAGGGCAGCATGAGCTGTCTGAGGTTGACGGAAGT
 GGGAGAACACAGAAGCCTCCTCACCGCTGGGGCCACTACCATGTAAGGACAGCAGGAACCATCGCTGC
 CAACGAAGCCGTAAAGACAAGAGCCACGGGCTTCCAGAGACATGAGTGGGGCTCGAGGAGCCGTTGCC
 GTGAATGAGGAATTCTTAAGAAGTTACTTCACAGAGAAAGCGGCCTCTACAATGGGGAAGACGACCTTC
 ACATGGCCAAAGACTGCCTTCTCGTTTACTCTCAGGAAGACACGGCCTCCCTCCGAGGCTCGGTCCGGTG
 CTGCAGTTTCATCGAGGAGAACTCGATGACCTGTTCTGGATGATCTTGGCCTTAAATTCAAGACCCTA
 GCTGAAGTTTGCCTAGGTGAAAAGATCGATCTGGATGTGGACATTGAACAGAGGCCAGAAGCCGGTCAAG
 AAGCGAGCGTGAGTGCAGCTTCTGGCTCGCACTATGAGCAAGCGGTAACCAGCTCAGAGAGCGGCTACTC
 CTCTAACACCGGCTTCCCGCCCCAAACCTCTGCACGAAGTGCACACAGAGAAAGTGCACAGGAAATC
 GTCACCTGAGAGCTCTGTATCTTCCAGGCAGAGTCAGAAGGTAGTACCGCCACCTGATCCTGTGGCTTCTG
 GTAATATTATAGTGACGGAAACTTCTATGCCAAAGGCTCAGCAGTGCACCCAGCACTGTGCTCCTGGC
 TCCAGACAGCCACAGAGCCTGATCGTGACAGAGAGGGTGTATGCTCCAACTCCACCTTGGTGGATCAG
 CATTATGCCAATGAAGAAAAAGTCTTGTACCGAACGAGTGTCCAGCCTAATGGGGCATCCCTAAGC
 CCCTTGAGGTCACCCAGCATCTGAAAGATGCACAGTATGTAATGGTGAAGGAAAGAGAGACATCCTTGC
 TCCAGCTCAGGGGTGCAGCCCACTCTGGCAATGCCAGCGTGGCAGCAGGAGGACAGAATGTCAACGCTG
 ACAGAAAGAATACTAACTCCTGCTTCCACTCTGCAGTCCAGCTACCAGATTCCCAGTGAAACCTCCATCA
 CGGCTAGGAACACTGTGCTCTAGTGTGGGAAGCATAGGTCTCTGCCCAATTTAGATCTAGAGGAATC
 TGATCGTCCCAATTCTACTATAACCACATCTTCCACCAGGGTCACCAAGCATAGCACCATGCAACATTCT
 TACTCTAA

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja2723_f02.zip

Restriction Sites: Sgfl-Mlul

ACCN: NM_007883

Insert Size: 3369 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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:	<ol style="list-style-type: none">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:	<u>NM_007883.3</u> , <u>NP_031909.2</u>
RefSeq Size:	5730 bp
RefSeq ORF:	3369 bp
Locus ID:	13511
UniProt ID:	<u>O55111</u>
Cytogenetics:	18 11.42 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 die in utero. Mutant mice lacking a part of the extracellular adhesive domain of the encoded protein develop cardiac fibrosis and dilation. This gene is located in a cluster of desmosomal cadherin genes on chromosome 18. [provided by RefSeq, Jan 2016]