

## Product datasheet for MR220643

### Dsg4 (NM\_181564) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Dsg4 (NM\_181564) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Dsg4  
**Synonyms:** CDHF13; I; lah  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR220643 representing NM\_181564  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGACTGGCTTCTCTTCAGAAATATTTGCCTTCTGATCTTATTTATGGTGGTACTGGGAGTAAACAGTG  
 AATTTATCGTTGAGGTAAAAGAATTAGACATTGAAAATGGCACAACAACCTGGCAGACTGTCAGAAGACA  
 AAAGCGGGAGTGGATCAAGTTTGCAGCAGCTGTGGGAGGGCGAGGACAACCTCAAGAGGAATCCAATT  
 GCCAGAATTAGATCAGACTGTGAAGTAAGCCAGAGGATAACCTATCGAATCTCTGGAGCGGGGATTGATC  
 GGCCACCTTACGGAGTGTCACCATCAACCCTCGGACTGGAGAAATCAATATTACCTCAGTGGTGGACAG  
 AGAGATAACCCCACTGTTCTGATCCATTGCCGAGCTCTCAACTCCCAGGAGAAGACTGGAGAGACCA  
 CTGGAGCTCAGAGTAAAAGTCATGGATGTGAACGACAACCCCACTCTCACTCAGAATGTGTACACAG  
 CCAACATTGAAGAGAACAGCGACGCCAATGCACTGGTGGTAAAGTTAAGTGCCACAGATGCAGATGAAGA  
 CAATCACTTGAATTCTAAAATTGCATACAAGATCATCTCCAGGAGCCTGCTGGTGCACCCATGTTTCATG  
 GTGAACAGGTACTGGAGAAGTCCGCACGATGTCCAATTTCTTGACAGAGAGCAACACAGTATGTACA  
 ATCTACTGGTGAAGGGCTCAGATCGGGATGGAGCCACAGATGGGCTGTCTCTGAATGTGACTGCAGAAT  
 CAAGATTTTGGATGTCAATGATAATTTCCCATCTTGGAGAAGACCTCATACTCAGCAAGTATTGAAGAA  
 AATTGTTTGGAGTCAAGACTGATACGACTACAAGCAATCGATCTGGATGAAGAAGGCACTGATAACTGGT  
 TGGCACAATACTCCATCCTCTCTGGCAATGATGGAACTGGTTTGAATCCAACAGATCCAAAAACCAA  
 TGAAGGCATTTTGAAGTGGTCAAGATGCTGGATTATGAACAAGAACCTAACATTTACCTCAGCATTGGA  
 GTTAGAAACCAAGCTGAGTTTACCACCTCAGTAGCATCTCAATTCAAAATGCACTCTACCCTGTGAGAA  
 TCCAGGTTGTTAACGTGCGGGAAGGACCGACCTTTAGCCCAAGTCCATGACATTTAGTCTACGAGGAGG  
 AATGAGAGGAGCCTCCTTAATGAACTATGTGCTTGGCACATACACAGCCATAGATATGGACACAGGAAAC  
 CCTGCAACCAATGTCAGGTATGTCATAGGGCATGATGCAGGCAGCTGGTAAAAGTTGATTCAAGGACTG  
 GTGAGATACAGTTTTCTAGGGAATTTGACATGAAGTCAAATATATTACGGATGGATATATGCAGCACA  
 GATCCTGGCTATAGATGATGGCTCTGGGAGAACAGCTACAGGAACCATATGCATTGAGATTCCTGATGCC



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AACGATTACTGTCCCGTCATTTATGCTGAAAGCAGGAGTGTCTGCACCCATGCTTCGTCTGCAGGATCT  
 ATGTCAACGATCATTCTTTCCGGTCTCCCTTTACCTTTTGTGTAGTTGATGAGTCACCAGACATAGCTAA  
 TATATGGGATATCAGGTCATCAATGGAACCTCTGCAATCCTTATGACTGAGCAGACTTTGTCTCCAGGA  
 CCCTACCAAAATCCCCATCCTCGTGAAGGACAGTCACAACCGAGCATGTGAATTGCCACAGACAGTGTCT  
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 CATCACCTGGGTGACTGATGACATGTATGGGACTGTCACTGATGAGTGGAGTTAGGCAGTCAAACCTCGGA  
 CTTGGCCACAGGGATTGGCATGATTATTTTGGGGCTTTGCTACTGCTCTTGTACCCCTTTTACTGC  
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 CGAAGGAGTGATGCAGCCCTGGAGAATAGAGGGGGCTCATCCAGAAGACAGGGATGTATCAAAATTTTGT  
 GTACCCATGACAGCCTCTAATACCAAGATCGCATTGATTTCATCTGAAATCTACACCAATACTTACGCTG  
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 GGTGGCTGCAGGAGCAACAGGGACCCTAAGGAAGAGGAGTTCAACTATAGGGACTCTTCGGGAATACCAA  
 GACTGTCGATGAACATGGCCTTCTGGACAGCTACTTCTCCGAGAAAGCGTATGCATATGCAGATGAAG  
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 CATTGGCTGCTGCAGTTGGATTGTGGATGACTTAGACGAAAGCTACATAGAGACTTTGGATCCAAAGTTC  
 AGGACTCTAGCTGAAATCTGCTTGGACACAGAGATTGAACCCCTCCCTTACACCCAGGCCTGTATACCAA  
 TCAGCACTGACCTCCCTCTGCTGGGGCCTAATTACTTTGTCAATGAGTCTTCAGGAATGACTCTCTCAGA  
 GGCTGAATCCAAGCAGAAATGGCAGCAGCCTCTGAACCCATGATTTCATGGGGACATCATAGTACTGAG  
 ACCTACTACTTCTGACCCATGTGTCCAACCCACAACGATTGTCTTACTCTCAGATTCACCAAAACG  
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 AGTAACATTAGTGATGCATGTATAGGACCAGTGTGAGCGCGGTATTTTGGTAGGGCCAGAAATCAAG  
 TGACACAAATGATGAGCCAGACATTACATAAGCCAAACACAGGCTCCACCTCCCAATGACGCTCA  
 ACACCGAGTAACCAGATACAGCAATATGCACTACTCCCGACAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR220643 representing NM\_181564

Red=Cloning site Green=Tags(s)

MDWLLFRNICLLILFMVVLGVNSEFIVEVKELDIENGTWQTVRRQKREWIKFAAACREGEDNSKRNP  
 ARIRSDCEVSQRITYRISGAGIDRPPYGVFTINPRTGEINITSVVDREITPLFLIHCALNSRGEDLERP  
 LELRVKMDVNDNPPVFTQNVYTAIEENSANALVVKLSATDAEDNHLNSKIAYKIIISQEPAGAPMFM  
 VNRYTGEVRTMSNFLDREQHSMYNLLVRGSDRDGATDGLSSECDRIKILDVNDNFPKLEKTSYSASIEE  
 NCLSSELIRLQAIDLDEEGTDNWLQYISL SGNDGNWFEIQDTPKTNEGILKVVKMLDYEQEPNIYLSIG  
 VRNQAEFHHSVASQFQMHSTPVRIVVNVREGPTFSPSSMTFLRGGMRGASLMNYVLGTYAIDMDTGN  
 PATNVRYVIGHDAGSWLKVDSRTGEIQFSREFDMKSKYITDGIYAAQILAIIDDGSGRTATGTICIEIPDA  
 NDYCPVIYAESRSVCTHASSVRIYVNDHSFGSPFTFCVVDSPDIANIWDIRSINGTSAILMTEQTLSPG  
 PYQIPILVKDSHNRACELPQTVLLDACFCDDHHVCLHSSTGIYTGDIWVTDMMYGTVTDGVRQSNVG  
 LGPAGIGMIILGLLLLLLSPLLLLMCCCKRRQPEGLGTRFAPVPEGGEGVMQPWRIEGAHPEDRDVSNIC  
 VPMTASNTQDRIDSSEIYNTYAGGGTVEGGVSGVELNTGVGTATGMVAAGATGLRKRSSITGLREYQ  
 DTGMNMAFLDSYFSEKAYAYADEDEGRANDCLLIYDHEGAGSPVGSIGCCSWIVDDLDESUIETLDPKF  
 RTLAEICLDTEIEPFPHQACIPISTDLPLLPNYFVNESSGMLSEAEFQAEMAAASEPMIHGDIIVTE  
 TYTSDPCVQPTTIVFDSQIPPNVVVTEVMAPVYDVQNICVPAEIANHNVYVAERVVSPGIPDMGN  
 SNISDACIGPVMSGILVGPEIQVTQMMSPDIIHSQTTGTSPTMSQHRVTRYSNMHYSRQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9002\\_d12.zip](https://cdn.origene.com/chromatograms/mm9002_d12.zip)

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_181564

ORF Size: 3123 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\\_181564.2](#), [NP\\_853543.1](#)

RefSeq Size: 3478 bp

RefSeq ORF: 3126 bp

Locus ID: 16769

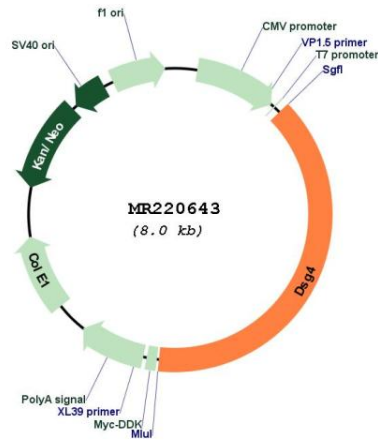
UniProt ID: [Q7TMD7](#)

**Cytogenetics:** 18 11.35 cM

**MW:** 114.9 kDa

**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. This gene is expressed in the suprabasal epidermis and hair follicle. The encoded preproprotein undergoes proteolytic processing to generate a mature, functional protein. Certain mutations in this gene are responsible for the lanceolate hair phenotype in mice. This gene is located in a cluster of desmosomal cadherin genes on chromosome 18. [provided by RefSeq, Feb 2016]

**Product images:**



Circular map for MR220643