

Product datasheet for **MR220716**

Dsg3 (NM_030596) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dsg3 (NM_030596) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dsg3
Synonyms:	bal
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR220716 representing NM_030596 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCTGCCTCTTCCTAGAGCCTTGGGTCTCTGGCCCTCCTGATGGTGGTGCTGCTGGTACAGGGG
AACTGCATGTGAAGCCGGGAGGACAGCACAGAGAAGATGGGACAGCATTGCAGCTGGCCAAAAGAAGGTA
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GCCAAGATCACTTCAGATTTCAAAAAACCAGAAAATTACCTACCGCATTCTGGAGTGGGAATTGATC
AGCCTCCCTTTGGGATCTTTGTTGTTGACCCAAACAATGGTGATATCAACATAACAGCCATAGTTGATCG
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AACTGCCCGTCAGTTGTCTCGAGAAGAAAGACATCTGTAATTCCTCACCTTCTGTGACCCCTCTCAGTGA
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TACAATATGCTCTATACAAAAGAAACCTGTTCCCATCTA

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR220716 representing NM_030596

Red=Cloning site Green=Tags(s)

MTCLFPRALGSLALLMVLLVQELHVKPGQHQHREDGTALQLAKRRYKREWVKFAKPCREREDNSRRNPI
AKITSDFQKNQKITYRISGVGIDQPPFGIFVVDPNNGDINITAIVDREETPSFLITCRALNALGQDVERP
LILTVKILDVNDNPPIFSQTIFKGEIEENSASNSLVMILNATDAEPNHMNSKIAFKIVSQEPAGMSMFL
ISRNTGEVRTLTSSLDREQISSYHLVVSADNDGTGLSTQCECSIKIKDVNDNFPVLRESQYSARIEENT
LNAELLRFQVTDWDEEYTDNLAVYFFTSNGEGNWFIEIDPRTNEGILKVVKALDYEQVQSMQFSIAVR
NKAEFHQSVISQYRVQSTPVTIQVIDVREGISFRPPSKTFTVQRGVSTNKLVGILGTYQATDEDTGKAA
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NCPSVLEKKDICTSSPSVTLVRLDRGKYTPYTVSLEEQLKLPVMWTITTLNATSALLQAQQVSP
GVYNVPVIVKDNQDGLCDTPESLTLTVQCDDRSMCRAPISREPNTYGESSWRLGPAAIGLILLGLML
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IDDEAKQAKPGPKDSGSGADTCARSMEVPQSGSNRYQTLPGSLEVTQTGSKICHTLSGNQETSVMSTSGS
VHPAVAIPDPLQLGNLTLTETYSTSGSFAQPTTTFDPHVTQNVTVTERVICPLPSASSIVAPTELGRS
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

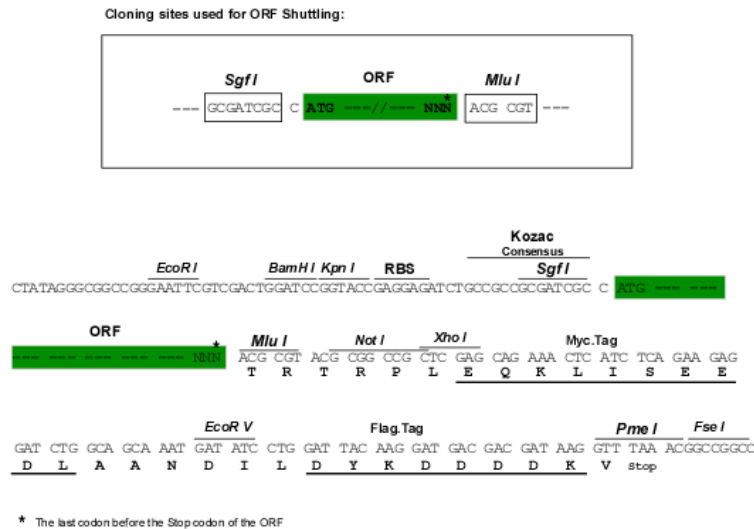
Chromatograms:

https://cdn.origene.com/chromatograms/mm9094_c12.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_030596

ORF Size: 2979 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

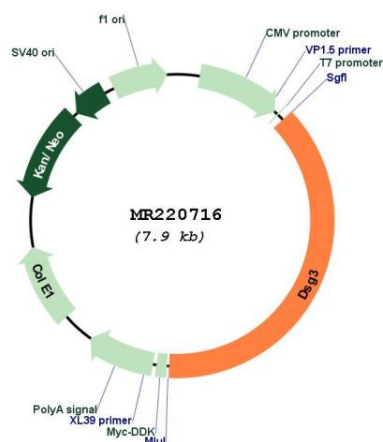
RefSeq: [NM_030596.4](#), [NP_085099.2](#)

RefSeq Size: 4108 bp

RefSeq ORF: 2982 bp
 Locus ID: 13512
 UniProt ID: [O35902](#)
 Cytogenetics: 18 11.39 cM
 MW: 107.9 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. 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]

Product images:



Circular map for MR220716