

## Product datasheet for **MG220216**

### Dsg1b (NM\_181682) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dsg1b (NM_181682) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dsg1b
Synonyms:	Dsg; dsg1-beta; Dsg5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG220216 representing NM_181682 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACTGGCACTCCTTCAGGATAGCTGCCCTGCTGCTCACTTCCCTGGTGGTGCCTGAAGTTAACAGTG  
AATTTCAAATCCAGGTAAGAGATCATAACGCCAAAAATGGTACCATCAAGTGGCACTCCATCAGAAGGCA  
GAAAAGAGAATGGATCAAGTTTGTCTGCAGCCTGTCGCGAAGGTGAAGACAACCTCAAAGAGAAACCAATT  
GCCAAAATTCATTAGATTGTGCTGCAAACCAACAGTAACATACCGCATCTCGGGAGTGGGAATTGACC  
AGCCACCTTATGGAATCTTCATTATTAACCAAAAACTGGTAAATCAATATAACATCCATTGTTGATCG  
TGAAGTCAACCCCTTTTTCATTATCTACTGCCGAGCACTGAATGCACAAGGTCAAGACTTGGAGAATCCA  
CTGGAGCTTAGAGTCAGAGTGATGGATATAAACGACAACCTCCTGTGTTTTCAATGACTACATTTCTAG  
GACAAATAGAAGAAAATCTAATGCAAACACACTGGTAATGAACTCAATGCTACCGATGCCGATGAGCC  
AAATAACTTGAATCAATGATAGCCTTCAAGATCATAAGACAGGAGCCTTCTGACTACCAATGTTTCATC  
ATCAACAGGAAAATGGAGAAATCAGAACAATGAATACTTTCTAGACAGAGAGCAATATAGCCAGTATT  
CCCTTGTGGTGAAGGCTCAGACCGGGACGGTGGAGCAGACGGCATGTCTGCAGAGAGCGAGTGCAGCAT  
CACCACCTGGATGTCAATGACAACATCCATACTTGGAGCAGTCATCTTATGACATCGAAATGAAGAA  
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GGTTCAGATGGTGGTGGCAGTTCAGTGGCAGTGGTGGTAAATCGTGACCCAGTACTAATGGATATCAAG
GCACCTTCTACTGTGGGCCGCAACGCGTCACAGGATCAGGGGGAGTCACTTCAAGTGGTGGAGGCAGTGG
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TTAGCACCAACATGGGTGCTGCTGGCACTGGGCTGAATATGGGAGGAACGCCACTATTGGCCACATGAG
GAGTTCTCTGACCATCACTTTAGTCAGACAATTGGATCTGCCTCCCCAACATGGCTCGAAGTCGAATC
ACAAAGTACAGTACGGTACAGTATAGCAAG
    
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AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG220216 representing NM\_181682  
 Red=Cloning site Green=Tags(s)

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MDWHSFRIAALLLTSLVVLEVNSEFQIQVRDHNAKNGTIKWSIRRQKREWIKFAAACREGEDNSKRNPI
AKIHSDCAANQPVTYRISGVGIDQPPYGFIIINQKTGEINITSIVDREVTFFFIIYCRALNAQGQDLENP
LELRVRVMDINDNPPVFSMTTFLGQIEENSANTLVMKLNATDAEPNNLNSMIAFKIIRQEPSDSPMFI
INRKTGEIRTMNFDREQYSQYSLVVRGSDRDGGADGMSAESECSITILDVNDNIPYLEQSSYDIEIEE
NALHSQLVQIRVIDLDEEFSDNWKAIIFFIISGNEGNWFEIEMNERTNVGTLKVVKPLDYEAMKNLQLSIG
VRNVAEFHQSIISQYRLTATMVTVTVLNVIEGVSFRPGSKTFVDSRMEANHRVGEFVATDLDTGRASTN
VRYEMGNPNENLLVVDSTGIIITLNRNVTMEQYQRLNGEYKGTVLSIDDSLQRTCTGTIVIELSGTGWVP
GSDGGSSSGSGNRDPVTNGYQGTSTVGPQRTVSGGGVTSSGGSGVNNTPGRQNPLDEPEPEPFDITE
DNVHFGPAGIGLLIMGFLVGLVPFLLICDCGGAPGGGAGFEPVPECSGAIHTWAIIEGPQPEPHDGIT
TICVPMPPGNANVIEYIDNSGVYTYNEICGEMQDLGGGERTTGFELMDGVKTSAAPEICQEYSGTLRRN
SMRECRDGGGLNMFMESYFCQKAYAYADEDEGRPSNDCLLIYDIEGVGSPAGSVGCCSFIGEDLDESFLD
TLGPKFKKLADISLKEIDSYPDPDSSWPPQSTEPMPQSTEPPLGSGYPPISPHFGTTTIVISENAYPSGP
GVQHPLIPDPLGYGNVTVRESYATSGTLKPSVHFHDNQASNVVTERVVGVPVPGADLHGMLEIPDLRD
GTNVIVTERVIAPGSSLPTSLTIPNPRETSNVVTERVIQPTSGMIGNLSMTPELSSAQNVIVTERVVS
AGMSGIAGTAGLGGVGGIGSSGLVSTTMGAAGTGLNMGGTATIGHMRSSSDHHSQTIGSASPNMARSRI
TKYSTVQYSK
    
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SGPTRRRLE - GFP Tag - V

**Restriction Sites:**

Sgfl-RsrII



<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_181682.2</a> , <a href="#">NP_859010.1</a>
<b>RefSeq Size:</b>	3404 bp
<b>RefSeq ORF:</b>	3183 bp
<b>Locus ID:</b>	225256
<b>UniProt ID:</b>	<a href="#">Q7TSF1</a>
<b>Cytogenetics:</b>	18 11.32 cM
<b>Gene Summary:</b>	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]