

## Product datasheet for **MR209741**

### Gusb (NM\_010368) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gusb (NM_010368) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gusb
Synonyms:	A1747421; asd; g; Gur; Gus; Gus-r; Gus-s; Gus-t; Gus-u; Gut
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>MR209741 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGTCCCTAAATGGAGTGCCTGTTGGGTGCGCTGCGCCAGCTGCTGTGCAGCTGCGCGCTGGCTCTGA  
AGGGCGGGATGCTGTTCCGAAGGAGAGCCCGTCGCGGGAGCTCAAGGCGCTGGACGGACTGTGGCACTT  
CCGCGCCGACCTCTGAACAACCGGCTGCAAGGTTTCGAGCAGCAATGGTACCGGACGCCCTACGGGAG  
TCGGGCCAGTCTTGACATGCCTGTCCCTTCTAGCTTCAATGACATCACCCAAGAAGCAGCCCTTCGGG  
ACTTTATTGGCTGGGTGTGGTATGAACGGGAAGCAATCCTGCCACGGCGATGGACCAAGATACCGACAT  
GAGAGTGGTGTGAGGATCAACAGTGCCATTATTATGCAGTTGTGTGGTGAATGGGATTCATGTGGT  
GAACATGAGGGAGGTACCTCCCCTTTGAGGCTGACATTAGCAAGCTGGTCCAGAGTGGGCCCTGACCA  
CCTGCCGATCAGATTGCCATCAACAACACACTGACCCCTCATACCCTCCGCCGGGACCATCGTCTA  
CAAGACTGACACCTCCATGTATCCCAAGGTTACTTTGTCCAGGACACAAGCTTTGACTTCTTCAACTAT  
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CTAATGTGGAGCAAGACATCGGGCTGGTACCTACTGGATTTCTGTGCAGGGCAGTGAACATTTCCAGCT  
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GATATCCGAGGAAAGGCTTCGACTGGCCGCTGCTGGTAAAGGATTTCAACCTGCTCCGTTGGCTCGGG  
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CACCACCTAGAGGTGATGGAGGAGCTGGTTCGCCGGGACAAAAATCACCCCTGCGGTTGTGATGTGGTCTG  
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AGCCACAGCTGAATAGCCAGTTTGAAGTGGTATAAGACGCATCAGAAGCCGATTATCCAGAGCGAGTA  
TGGAGCAGACGCAATCCAGGGATCCACGAGGACCCGCTCGCATGTTTCAGTGAGGAGTACCAGAAGGCT  
GTTCTGGAGAATTACCATTCACTTCTGGATCAGAAACGTAAGAATACGTTGGTCCGAGAGCTCATCTGGA  
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CCAGAGACAGCCAAAATTCGGCCTTTATTTTGCAGAGAGATACTGGAGGATTGCCAACGAAACCGGA  
GGTCACGGTTCAGGGCCGAGAACCAGTGTTCGGAAGCAGACCGTTCACGTTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR209741 protein sequence  
 Red=Cloning site Green=Tags(s)

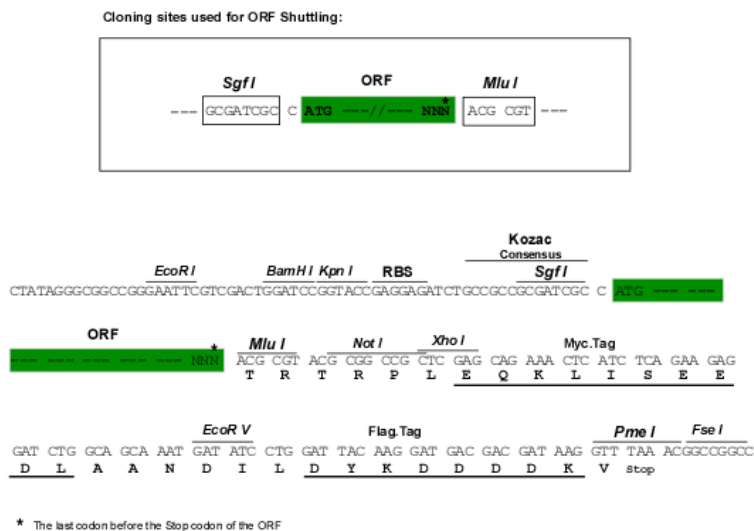
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MSLKWSACWVALGQLLCSALALKGGMLFPKESPSRELKALDGLWHFRADLSNNRLQGFEQQWYRQPLRE
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AGLHRSVVLVYTTPTTYIDDITVI TNVEQDIGLVTYWISVQGSEHFQLEVQLLDEGGKVVAHGTGNQGQLQ
VPSANLWVWVYLMHEHPAYMYSLEVKVTSTESVTDYVTLPIGIRTVAVTKSKFLINGKPFYFQGVNKHEDS
DIRGKGFDPVLLVKDFNLLRWLGANSFRTSHYPYSEEVLQCDRYGIVVIDECPGVGIVLPQSFGNESLR
HHLEVMEELVRRDKNHPAVVWMSVANEPSSALKPAAYYFKTLITHTKALDLTRPVTFVSNKYDADL GAP
YVDVICVNSYFSWYHDYGHLEVIQQLNSQFENWYKTHQKPIIQSEYGADAIPGIHEDPPRMFSEEYQKA
VLENYHSLVDQKRKEYVVGELIWNFADFMTNQSPLRVIGNKKGIFTRQRQPKTSAFILRERYWRIANETG
GHGSGPRTQCFGSRPFTF
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_010368

**ORF Size:** 1947 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\\_010368.2](#)

**RefSeq Size:** 2456 bp

**RefSeq ORF:** 1947 bp

**Locus ID:** 110006

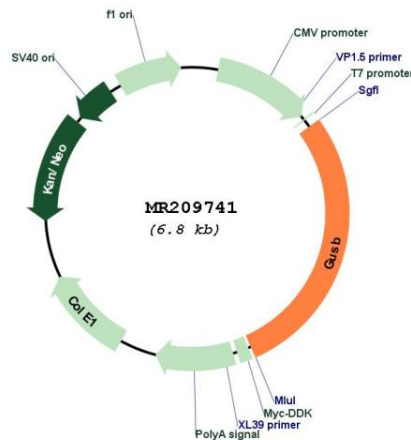
**UniProt ID:** [P12265](#)

**Cytogenetics:** 5 68.32 cM

**MW:** 74.2 kDa

**Gene Summary:** Plays an important role in the degradation of dermatan and keratan sulfates.  
[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR209741