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Product datasheet for MG209741

Gusb (NM_010368) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gusb (NM_010368) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gusb
Synonyms:	AI747421; asd; g; Gur; Gus; Gus-r; Gus-s; Gus-t; Gus-u; Gut
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>MG209741 representing NM_010368
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCCCTAAAATGGAGTGCGTGTTGGGTCGCGCTGGGCCAGCTGCTGTGCAGCTGCGCGCTGGCTCTGA
AGGGCGGGATGCTGTTCCCGAAGGAGAGCCCGTCGCGGGAGCTCAAGGCGCTGGACGGACTGTGGCACTT
CCGCGCCGACCTCTCGAACAACCGGCTGCAGGGTTTCGAGCAGCAATGGTACCGGCAGCCGCTACGGGAG
TCGGGCCCAGTCTTGGACATGCCTGTCCCTTCTAGCTTCAATGACATCACCCAAGAAGCAGCCCTTCGGG
ACTTTATTGGCTGGGTGTGGTATGAACGGGAAGCAATCCTGCCACGGCGATGGACCCAAGATACCGACAT
GAGAGTGGTGTTGAGGATCAACAGTGCCCATTATTATGCAGTTGTGTGGGTGAATGGGATTCATGTGGTG
GAACATGAGGGAGGTCACCTCCCCTTTGAGGCTGACATTAGCAAGCTGGTCCAGAGTGGGCCCCTGACCA
CCTGCCGGATCACGATTGCCATCAACAACACACTGACCCCTCATACCCTTCCGCCGGGGACCATCGTCTA
CAAGACTGACACCTCCATGTATCCCAAGGGTTACTTTGTCCAGGACACAAGCTTTGACTTCTTCAACTAT
GCGGGACTGCATCGATCTGTGGTCCTCTATACCACCCCTACCACTTACATCGATGATATCACTGTGATCA
CTAATGTGGAGCAAGACATCGGGCTGGTGACCTACTGGATTTCTGTGCAGGGCAGTGAACATTTCCAGCT
AGAAGTGCAACTTTTGGATGAGGGTGGCAAAGTCGTGGCCCATGGGACAGGGAACCAGGGTCAACTTCAG
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CACAAAGAGCAAGTTCCTCATAAACGGGAAGCCCTTCTATTTCCAAGGGGTCAATAAGCACGAGGATTCA
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CAAATTCCTTTCGTACCAGCCACTATCCCTACTCAGAGGAGGTACTTCAGCTCTGTGACCGATACGGGAT
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CACCACCTAGAGGTGATGGAGGAGCTGGTTCGCCGGGACAAAAATCACCCTGCGGTTGTGATGTGGTCTG
TGGCCAATGAGCCTTCCTCTGCTCTGAAACCCGCCGCATATTACTTTAAGACGCTGATCACCCACACCAA
AGCCCTGGACCTCACCCGTCCCGTGACCTTTGTGAGCAACGCCAAATATGATGCAGACCTGGGGGCCCCG
TACGTGGATGTTATCTGTGTAAACAGCTACTTTTCTTGGTATCATGACTATGGGCATTTGGAGGTGATTC
AGCCACAGCTGAATAGCCAGTTTGAGAACTGGTATAAGACGCATCAGAAGCCGATTATCCAGAGCGAGTA
TGGAGCAGACGCAATCCCAGGGATCCACGAGGACCCGCCTCGCATGTTCAGTGAGGAGTACCAGAAGGCT
GTTCTGGAGAATTACCATTCAGTTCTGGATCAGAAACGTAAAGAATACGTGGTCGGAGAGCTCATCTGGA
ATTTCGCCGACTTCATGACGAACCAGTCACCGCTGAGAGTAATCGGAAACAAGAAGGGGATCTTCACTCG
CCAGAGACAGCCCAAAACTTCGGCCTTTATTTTGCGAGAGAGATACTGGAGGATTGCCAACGAAACCGGA
GGTCACGGTTCAGGGCCGAGAACCCAGTGTTTCGGAAGCAGACCGTTCACGTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

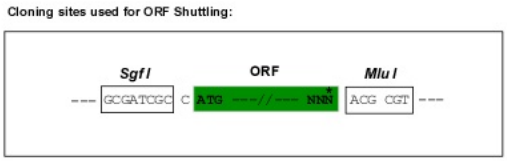
>MG209741 representing NM_010368
Red=Cloning site Green=Tags(s)

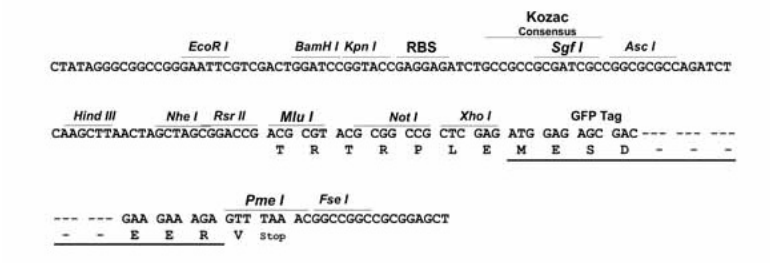
MSLKWSACWVALGQLLCSCALALKGGMLFPKESPSRELKALDGLWHFRADLSNNRLQGFEQQWYRQPLRE
SGPVLDMPVPSSFNDITQEAALRDFIGWVWYEREAILPRRWTQDTDMRVVLRINSAHYYAVVWVNGIHVV
EHEGGHLPFEADISKLVQSGPLTTCRITIAINNTLTPHTLPPGTIVYKTDTSMYPKGYFVQDTSFDFFNY
AGLHRSVVLYTTPTTYIDDITVITNVEQDIGLVTYWISVQGSEHFQLEVQLLDEGGKVVAHGTGNQGQLQ
VPSANLWWPYLMHEHPAYMYSLEVKVTTTESVTDYYTLPIGIRTVAVTKSKFLINGKPFYFQGVNKHEDS
DIRGKGFDWPLLVKDFNLLRWLGANSFRTSHYPYSEEVLQLCDRYGIVVIDECPGVGIVLPQSFGNESLR
HHLEVMEELVRRDKNHPAVVMWSVANEPSSALKPAAYYFKTLITHTKALDLTRPVTFVSNAKYDADLGAP
YVDVICVNSYFSWYHDYGHLEVIQPQLNSQFENWYKTHQKPIIQSEYGADAIPGIHEDPPRMFSEEYQKA
VLENYHSVLDQKRKEYVVGELIWNFADFMTNQSPLRVIGNKKGIFTRQRQPKTSAFILRERYWRIANETG
GHGSGPRTQCFGSRPFTF

TRTRPLE - GFP Tag - V

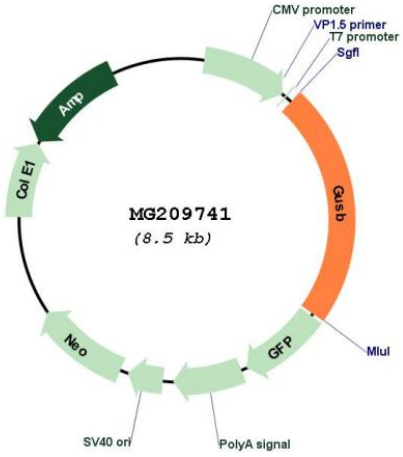
Restriction Sites: SgfI-MluI

Cloning Scheme:





Plasmid Map:



ACCN: NM_010368

ORF Size: 1944 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
Gene Summary:	Plays an important role in the degradation of dermatan and keratan sulfates. [UniProtKB/Swiss-Prot Function]