

## Product datasheet for **RG238607**

### beta glucuronidase (GUSB) (NM\_001284290) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	beta glucuronidase (GUSB) (NM_001284290) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	beta glucuronidase
Synonyms:	BG; MPS7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG238607 representing NM\_001284290.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGCCCGGGGGTCCGCGGTTGCCTGGGCGCGCTCGGGCCGTTGTTGTGGGGCTGCGCGCTGGGGCTG
CAGGGCCGGGATGCTGTACCCCCAGGAGAGCCCGTCGCGGGAGTGCAAGGAGCTGGACGGCCTCTGGAGC
TTCCGCGCCGACTTCTCTGACAACCGACGCCGGGGCTTCGAGGAGCAGTGGTACCGCGGGCCGCTGTGG
GAGTCAGGCCCCACCGTGGACATGCCAGTTCCTCCAGCTTCAATGACATCAGCCAGGACTGGCGTCTG
CGGCATTTTGTCCGGTGGGTGTGGTACGAACGGGAGGTGATCCTGCCGGAGCGATGGACCCAGGACCTG
CGCACAAGAGTGGTGTGAGGATTGGCAGTGCCATTCTATGCCATCGTGTGGTGAATGGGGTCGAC
ACGCTAGAGCATGAGGGGGGCTACCTCCCTTCGAGGCCGACATCAGCAACTGGTCCAGGTGCAGCTG
ACTGCACAGACGTCAGTGGGCTGTGTCTGACTTCTACACACTCCCTGTGGGATCCGCACTGTGGCT
GTCACCAAGAGCCAGTTCCTCATCAATGGGAACTTTCTATTTCCACGGTGTCAACAAGCATGAGGAT
GCGGACATCCGAGGAAGGGCTTCGACTGGCCGCTGCTGGTGAAGGACTTCAACCTGCTTCGCTGGCTT
GGTGCCAAACGCTTCCGTACCAGCCACTACCCCTATGCAGAGGAAGTGTGCAGATGTGTGACCGCTAT
GGGATTGTGGTACATCGATGAGTGTCCCGCGTGGGCTGGCGCTGCCGCGATTCTTCAACAACGTTTCT
CTGCATCACCACATGCAGGTGATGGAAGAAGTGGTGCCTAGGGACAAGAACCACCCCGCGGTCTGTATG
TGGTCTGTGGCCAACGAGCCTGCGTCCCACCTAGAATCTGCTGGTACTACTTGAAGATGGTGTATCGCT
CACACCAATCCTTGGACCCCTCCCGCCCTGTGACCTTTGTGAGCAACTCTAACTATGCAGCAGACAAG
GGGGCTCCGTATGTGGATGTGATCTGTTGAACAGCTACTACTCTTGGTATCACGACTACGGGCACCTG
GAGTTGATTGATGAGTGCAGTGGCCACCCAGTTTGAAGTGGTATAAGAAGTATCAGAAGCCATTATT
CAGAGCGAGTATGGAGCAGAAACGATTGCAGGGTTTACCAGGATCCACCTCTGATGTTCAAGAG
TACCAGAAAAGTCTGCTAGAGCAGTACCATCTGGTCTGGATCAAAAACGCAGAAAATACGTGGTTGGA
GAGCTCATTTGGAATTTTCCGATTTTATGACTGAACAGTCAACGACGAGAGTGTGGGGAATAAAAAG
GGGATCTTCACTCGGAGAGACAACAAAAAGTGCAGCGTTTCTTTTGGAGAGAGATACTGGAAGATT
GCCAATGAAACCAGGTATCCCACTCAGTAGCCAAGTCACAATGTTTGGAAAACAGCCTGTTTACT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

**Protein Sequence:**

>Peptide sequence encoded by RG238607  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MARGSAVAWAALGPLLWGCALGLQGGMLYPQESPSRECKELDGLWSFRADFSDNRRRGFEEQWYRRPLW
ESGPTVDMPPVPSFNDISQDWRLRHFVGVVWYEREVILPERWTQDLRTRVVLRIKSAHSYAIWVWNGVD
TLEHEGGYLPFEADISNLVQVQLTAQTSLGPVSDFYTLPGVIRTVAVTKSQFLINGKPFYFHGVNKHED
ADIRGKGFDPVLLVKDFNLLRWLGANAFRTSHYPYAEVVMQCDRYGIVVIDECPVGLALPQFFNNVS
LHHHMVMEEVRRDKNHPAVVMWSVANEPASHLESAGYLLKVMIAHTKSLDPSRPVTFVSNNSNYAADK
GAPYVDVICLNSYYSWYHDYGHLELIQLQLATQFENWYKQKPIIQSEYGAETIAGFHQDPPLMFTTE
YQKSLLEQYHLGLDQKRRKYVVGELIWNFADFMTESQSPTRVLGKKGIFTRQRQPKSAFLLRERYWKI
ANETRYPHSVAKSQCLENSLFT
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:**

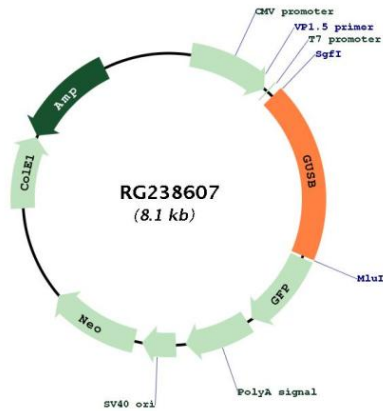
Sgfl-Mlul



**Gene Summary:**

This gene encodes a hydrolase that degrades glycosaminoglycans, including heparan sulfate, dermatan sulfate, and chondroitin-4,6-sulfate. The enzyme forms a homotetramer that is localized to the lysosome. Mutations in this gene result in mucopolysaccharidosis type VII. Alternative splicing results in multiple transcript variants. There are many pseudogenes of this locus in the human genome.[provided by RefSeq, May 2014]

**Product images:**



Circular map for RG238607