

# Recombinant Full Length Human GUSB Protein

**Cat. No.** GUSB-211HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant full length Human beta glucuronidase with N terminal proprietary tag, 95.41kDa.                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                     |
| <b>ProteinLength</b>    | 630 amino acids                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | 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. There are many pseudogenes of this locus in the human genome.                                   |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Molecular Mass</b>   | 95.410kDa inclusive of tags                                                                                                                                                                                                                                                                                                                                                   |
| <b>AA Sequence</b>      | GLQGGMLYPQESPSRECKELDGLWSFRADFSDNRRRGFEE QWYRRPLWESGPT<br>VDMPVPSSFNDISQDWRLRHFVGWVWY EREVILPERWTQDLRTRVVLRIKSAHSY<br>AIVWVNGVDLTLE HEGGYLPFEADISNLVQVGPLPSRLRITIAINNTLTPTTL PPGTIQY<br>LTDTSKYPKGYFVQNTYFDFFNAYAGLQRSVLLY TTPTYIDDITVTTSVEQDSGLVNY<br>QISVKGSNLFKLEVR LLDAENKVVANGTGTQGQLKVPVSLWWPYLMHERPAYLY<br>SLEVQLTAQTS LGPVSDFYTLPGVIRTAVATKSQFLINGK PFYFHGVNKHEDADIRG |

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KGFDWPLLVKDFNLLRWLGANAF RTSHYPYAEVVMQMCDRYGIVVIDECPGVGLA  
 LPQFFNNV SLHHHMQVMEEVVRDKNHPAVVMWSVANEPASHLESAGY YLKMVI  
 AHTKSLDPSRPVTFVSNSNYAADKGAPYVDVICL NSYYSWYHDYGHLELIQLQLAT  
 QFENWYKKYQKPIIQSEY GAETIAGFHQDPPLMFTEEYQKSLLEQYHLGLDQKRRK  
 YV VGELIWNFADFMTEQSPTRVLGNKKGIFTRQRQPKSAAFL LRERYWKIANETRY  
 PHSVAKSQCLENSLFT

**Purity** Proprietary Purification

**Storage** Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.

**Storage Buffer** pH: 8.00. Constituents:0.79% Tris HCl, 0.31% Glutathione.

## GENE INFORMATION

**Gene Name** GUSB glucuronidase, beta [ Homo sapiens ]

**Official Symbol** GUSB

**Synonyms** GUSB; glucuronidase, beta; beta-glucuronidase

**Gene ID** 2990

**mRNA Refseq** NM\_000181

**Protein Refseq** NP\_000172

**MIM** 611499

**UniProt ID** P08236

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