

Product datasheet for **SC336090**

beta glucuronidase (GUSB) (NM_001293105) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	beta glucuronidase (GUSB) (NM_001293105) Human Untagged Clone
Tag:	Tag Free
Symbol:	GUSB
Synonyms:	BG; MPS7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC336090 representing NM_001293105. Blue=Insert sequence Red=Cloning site Green=Tag(s)

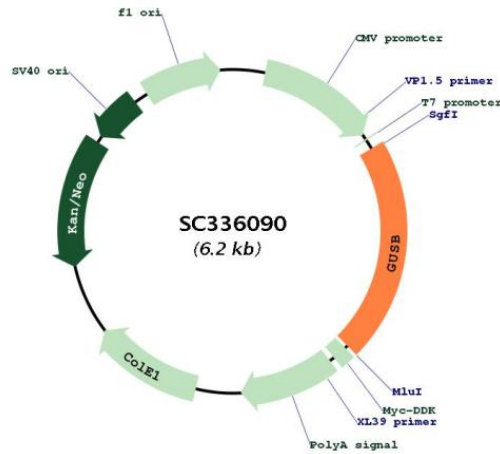
```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGACCCAGGACCTGCGCACAAGAGTGGTGCTGAGGATTGGCAGTGCCCATTCCTATGCCATCGTGGG
CTGGTGAATTACCAGATCTCTGTCAAGGGCAGTAACCTGTTCAAGTTGGAAGTGCCTTTTTGGATGCA
GAAAACAAAGTCGTGGCGAATGGGACTGGGACCCAGGGCCAACTAAGGTGCCAGGTGTCAGCCTCTGG
TGGCCGTACCTGATGCACGAACGCCCTGCCTATCTGTATTCAATTGGAGGTGCAGCTGACTGCACAGACG
TCACTGGGCCTGTGTGACTTCTACACTCCCTGTGGGGATCCGACTGTGGCTGTCACCAAGAGC
CAGTTCCTCATCAATGGGAAACCTTTCTATTTCCACGGTGTCAACAAGCATGAGGATGCGGACATCCGA
GGGAAGGGCTTCGACTGGCCGCTGCTGGTGAAGGACTTCAACCTGCTTCGCTGGCTTGGTGCCAACGCT
TTCCGTACCAGCCACTACCCCTATGCAGAGGAAGTGTGAGATGTGTGACCGCTATGGGATTGTGGTC
ATCGATGAGTGTCCCGCGTGGGCTGGCGCTGCCGAGTTCTTCAACAACGTTTCTCTGCATCACCAC
ATGCAGGTGATGGAAGAAGTGGTGCATAGGACAAAGAACCCCGCGTGTGATGTGGTCTGTGGCC
AACGAGCCTGCGTCCCACCTAGAATCTGCTGGCTACTACTTGAAGATGGTGTGATCGCTCACACAAATCC
TTGGACCCTCCCGCCTGTGACCTTTGTGAGCAACTCTAACTATGCAGCAGACAAGGGGGCTCCGAT
GTGGATGTGATCTGTTTGAACAGCTACTACTCTTGGTATCACGACTACGGGCACCTGGAGTTGATTGAG
CTGCAGCTGGCCACCCAGTTTGAAGTGGTATAAGAAGTATCAGAAGCCATTATTCAGAGCGAGTAT
GGAGCAGAAACGATTGCAGGGTTTCAACAGGATCCACCTCTGATGTTCACTGAAGAGTACCAGAAAAGT
CTGCTAGAGCAGTACCATCTGGTCTGGATCAAAAACGCAGAAAATACGTGGTTGGAGAGCTCATTGGG
AATTTTGGCGATTTTCATGACTGAACAGTACCAGCAGAGTGTGGGAAATAAAAAGGGGATCTTCACT
CGGCAGAGACAACCAAAAAGTGCAGCGTTCCTTTTGCAGAGAGATACTGGAAGATTGCCAATGAAACC
AGGTATCCCCACTCAGTAGCAAGTCACAATGTTTGGAAAACAGCCTGTTTACTTGA
ACGCGTACGCGGCCGCTCGAGCAGAAAACATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```



[View online »](#)

Restriction Sites: Sgfl-Mlul

Plasmid Map:



ACCN: NM_001293105

Insert Size: 1299 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001293105.1](#)

RefSeq Size: 1985 bp

RefSeq ORF: 1299 bp

Locus ID: 2990

UniProt ID: [P08236](#)

Cytogenetics: 7q11.21

Protein Families: Druggable Genome, Transmembrane

Protein Pathways:	Drug metabolism - other enzymes, Glycosaminoglycan degradation, Lysosome, Metabolic pathways, Pentose and glucuronate interconversions, Porphyrin and chlorophyll metabolism, Starch and sucrose metabolism
MW:	49.6 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (4) lacks alternate exons in the 5' coding region, compared to variant 1. The encoded protein (isoform 4) is shorter, compared to isoform 1.</p>