

## Product datasheet for **MR206236**

### B3gnt7 (NM\_145222) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** B3gnt7 (NM\_145222) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** B3gnt7  
**Synonyms:** beta-3GnT7; C330001H22Rik  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR206236 representing NM\_145222  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCTCTGTGGAAGAAAACCTCTACAAGAGTGTATGCCTGGCTCTGGCCCTCCTTGTGGCTGTCACCG  
 TTTTCCAGCGCAGTGTGACCCCTGGTCAATTCCTCAGGATCCTTACCGCCACGCCGGGGCCAGCCAA  
 AACTGGAAATCTGGTCAACCCCAACAGCTTCTGGAAGAGTTCAAAGGATGTAGCGGCTCCCACTCCCACA  
 GTTCTCGGGGACCCAGGTCTGGGATGTGATCACCCTAACTGCTCTATCAACATCAACCTGACCCATC  
 AGCCCTGGTCCAGAGTCTGGAGCCACACTTCCGACAGTTTCTAGCCTATCGGCATTGCCGGTATTTCCC  
 CATGTTGCTGAACCACCCAGAGAAGTGTGCTGGCGATGTCTATATGCTGGTGGTTGTCAAGTCGGTCATC  
 ACACAGCATGACCGCCGAGAGGTCAATTCGTGACACTGGGGCCACGAATGGGAGTCAGCGGGTTGGGCA  
 GGGGTGCAGTGGGACTCTTCTGCTCGGCACGGCCTCCAAGCAAGAGGAGCGAACCCACTATACGCA  
 GCTGCTGGCCTACGAGGACCGTCTCTATGCTGACATCCTACAGTGGGATTTCTTGACAGCTTCTTCAAC  
 CTGACCCCAAGGAGATCCACTTCTCAAGTGGCTCGACATTTACTGTCCCAACGTCCCCTTCGTTTTCA  
 AAGGTGATGATGATGCTTTGTCAACCCCAACCTGCTCGAGTTTCTGCTGACCGGCAGCCCCAGGA  
 AAACCTATTTGTAGGTGATGTTCTGAAACATGCTCGGCCATCCGCAAAAAGATAACAAATACTACATC  
 CCAGCCGTCATGTATGGTAAGGCCACTACCCGCCCTATGCTGGTGGAGGGGTTTCTCATGCTGGCA  
 GCTTAGCTCGGCAACTCCACCATGCTGTGACACACTGGAATCTTCCCTATTGATGATGTCTTCCCTGGG  
 CATGTGCTTGGAGGTGCTGGGAGTGAAGCCACAGGCCACGAGGCTTCAAGACCTTTGGCATCTCTCGG  
 GTCCGAAGCAGCCGGATGAACAAGGAACCGTGCTTCTACCGGGCCATGCTTGTGGTACACAAGTTGCTCC  
 CTGCCGAGCTGCTGGCCATGTGGATCTGGTGCATAGCAATCTTACCTGTTCTGTCAAGTCCAGGTGCT  
 C

**ACGGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR206236 representing NM\_145222  
Red=Cloning site Green=Tags(s)

MSLWKKTLYKSVCLALALLVAVTVFQRSVTPGQFLQDPLPPTPGPAKTGNLVNPNFVKSSKDVAAPTPT  
 VPRGPQVWDVITTNCSININLTHQPWFQSLEPHFRQFLAYRHCRYFPMLLNHPEKAGDVYMLVVVKSVI  
 TQHDRREVIRQTWGHEWESAGLGRGAVRTLFLLLGTASKQEERTHYQQLLAYEDRLYADILQWDFLDSFFN  
 LTLKEIHFLKWLDIYCPNVFPVFKGDDDFVNPNTNLEFLSDRQPQENLFGVDVLKHARPIRKKDNKYI  
 PAVMYGKATYPPYAGGGGFLMSGSLARQLHHACDTLELFPIDDDVFLGMCLEVLGVKPTGHEGFKTFGISR  
 VRSSRMNKEPCFYRAMLVVHKLLPAELLAMWDLVHSNLTCSVKFQVL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9027\\_d03.zip](https://cdn.origene.com/chromatograms/mm9027_d03.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_145222

**ORF Size:** 1191 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\\_145222.2](#), [NP\\_660257.2](#)

**RefSeq Size:** 2608 bp

**RefSeq ORF:** 1194 bp

**Locus ID:** 227327

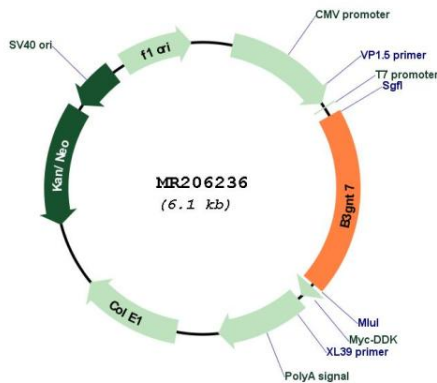
**UniProt ID:** [Q8K0J2](#)

**Cytogenetics:** 1 C5

**MW:** 45.8 kDa

**Gene Summary:** May be involved in keratane sulfate biosynthesis. Transfers N-acetylgalactosamine on to keratan sulfate-related glycans. May play a role in preventing cells from migrating out of the original tissues and invading surrounding tissues (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR206236