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Product datasheet for MG206236

B3gnt7 (NM_145222) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B3gnt7 (NM_145222) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	B3gnt7
Synonyms:	beta-3GnT7; C330001H22Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG206236 representing NM_145222
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCTCTGTGGAAGAAAACCCTCTACAAGAGTGTATGCCTGGCTCTGGCCCTCCTTGTGGCTGTCACCG
TTTTCCAGCGCAGTGTGACCCCTGGTCAATTCCTTCAGGATCCTTTACCGCCCACGCCGGGGCCAGCCAA
AACTGGAAATCTGGTCAACCCCAACAGCTTCTGGAAGAGTTCAAAGGATGTAGCGGCTCCCACTCCCACA
GTTCCTCGGGGACCCCAGGTCTGGGATGTGATCACCACTAACTGCTCTATCAACATCAACCTGACCCATC
AGCCCTGGTTCCAGAGTCTGGAGCCACACTTCCGACAGTTTCTAGCCTATCGGCATTGCCGGTATTTCCC
CATGTTGCTGAACCACCCAGAGAAGTGTGCTGGCGATGTCTATATGCTGGTGGTTGTCAAGTCGGTCATC
ACACAGCATGACCGCCGAGAGGTCATTCGTCAGACCTGGGGCCACGAATGGGAGTCAGCGGGTTTGGGCA
GGGGTGCAGTGCGGACTCTCTTCCTGCTCGGCACAGCCTCCAAGCAAGAGGAGCGAACCCACTATCAGCA
GCTGCTGGCCTACGAGGACCGTCTCTATGCTGACATCCTACAGTGGGATTTCCTTGACAGCTCCTTCAAC
CTGACCCTCAAGGAGATCCACTTCCTCAAGTGGCTCGACATTTACTGTCCCAACGTCCCCTTCGTTTTCA
AAGGTGATGATGATGTCTTTGTCAACCCCACCAACCTGCTCGAGTTTCTGTCTGACCGGCAGCCCCAGGA
AAACCTATTTGTAGGTGATGTTCTGAAACATGCTCGGCCCATCCGCAAAAAAGATAACAAATACTACATC
CCAGCCGTCATGTATGGTAAGGCCACCTACCCGCCCTATGCTGGTGGAGGGGGTTTCCTCATGTCTGGCA
GCTTAGCTCGGCAACTCCACCATGCCTGTGACACACTGGAACTCTTCCCTATTGATGATGTCTTCCTGGG
CATGTGCTTGGAGGTGCTGGGAGTGAAGCCCACAGGCCACGAGGGCTTCAAGACCTTTGGCATCTCTCGG
GTCCGAAGCAGCCGGATGAACAAGGAACCGTGCTTCTACCGGGCCATGCTTGTGGTACACAAGTTGCTCC
CTGCCGAGCTGCTGGCCATGTGGGATCTGGTGCATAGCAATCTTACCTGTTCTGTCAAGTTCCGGGTGCT
C

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

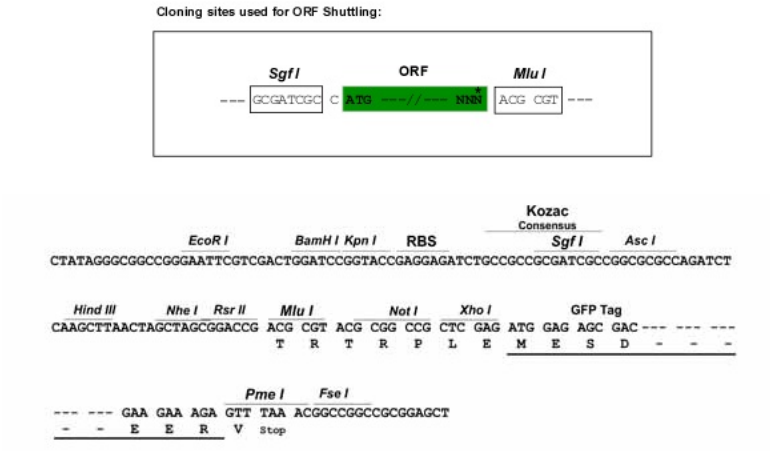
>MG206236 representing NM_145222
Red=Cloning site Green=Tags(s)

MSLWKKTLYKSVCLALALLVAVTVFQRSVTPGQFLQDPLPPTPGPAKTGNLVNPNSFWKSSKDVAAPTPT
VPRGPQVWDVITTNCSININLTHQPWFQSLEPHFRQFLAYRHCRYFPMLLNHPEKCAGDVYMLVVVKSVI
TQHDRREVIRQTWGHEWESAGLGRGAVRTLFLLGTASKQEERTHYQQLLAYEDRLYADILQWDFLDSSFN
LTLKEIHFLKWLDIYCPNVPFVFKGDDDVFVNPTNLLEFLSDRQPQENLFVGDVLKHARPIRKKDNKYYI
PAVMYGKATYPPYAGGGGFLMSGSLARQLHHACDTLELFPIDDVFLGMCLEVLGVKPTGHEGFKTFGISR
VRSSRMNKEPCFYRAMLVVHKLLPAELLAMWDLVHSNLTCSVKFRVL

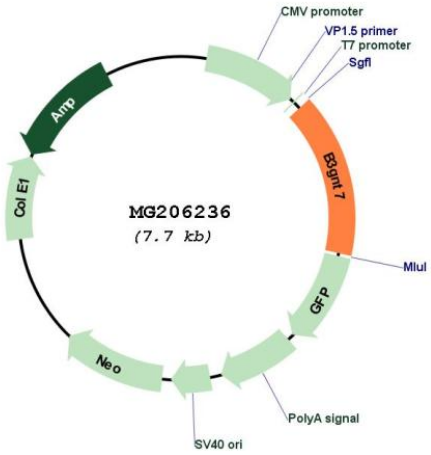
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_145222

ORF Size:	2605 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_145222.1
RefSeq Size:	2367 bp
RefSeq ORF:	1194 bp
Locus ID:	227327
UniProt ID:	Q8K0J2
Cytogenetics:	1 C5
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]