

Product datasheet for **MG205973**

B4galt6 (BC011149) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B4galt6 (BC011149) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	B4galt6
Synonyms:	AA536803; AU022389
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205973 representing BC011149 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTGCGCTCAAGCGGATGATGCGGGTCTCCAATCGCTCTCTGATTGCCTTCATCTTCTTTCTCC
TCTCCACGTCCTGTCTACTTCATCTATGTGGCTCCAGGCATCGCCAACACGTACCTCTTTATGGTACA
AGCTAGAGGTATCATGCTGAGAGAGAATGTGAAAACAATTGGACACATGATCAGGCTGTATACCAATAAA
AACACTACGCTCAACGGAACAGATTATCCTGAAGGCAATAATACAAGTACTATCTTGTCAAACAACAA
CGTATCTCCGAAAACCTCACGTATTTGCCACACCTCCCCTGTCCAGAGAAGCTGCCTTACATGCGGGG
ATTCTCAGTGCAATGTGAGTGAGATCAGTTTTGATGAAGTCCATCAGCTCTTCTCCAAGGACTCAGAG
ATTGGGCCAGGAGGCCACTGGAGGCCAAAGACTGCAAGCCCAGATGGAAGGTGGCAGTTCTCATCCCT
TCCGTAACCGCCATGAACATCTCCGATTTTTTCTGCACCTGATCCGATGCTCCAGAAAACAGCGGT
GGAATTTGCCTTTTATGTCATCGAACAGACCGGCACACAACCAATCAATCGTGCGATGCTCTTAAATGTG
GGTTTCAAAGAGGCCATGAAAGACAGAGCCTGGGACTGTGTGATCTTCCATGATGTGGATCATCTGCCTG
AAAATGATCGGAACACTACGGATGTGGAGAGATGCCCGGCACCTTTCAGCGAAGCTGGACAAGTACAT
GTACATTTCTCCATAAGGAGTTTTTTGGTGGGTGAGTGGCCTGACGGTGGAGCAATTCAGGAAGATC
AACGGCTTTCCCAATGCCTTCTGGGATGGGAGGCGAGGACGATGACCTTTGGAACAGATTCCTACAG
CCGGCTACAATGTAACCGGCCAGAAAGGGACTTGGGAAAATACATATCTATTCCCTCATCACCATCGAGG
GGAGGTACAGTTCTAGGACGGTATAAATACTTCGGTATTCCAAGGAGCGGCAGTACATCGATGGACTG
AACAAATTTATTATACACCCAAAATACTGGTTGATAGGCTGTATACAAATATATCTGTAACCTCATGC
CAGAATTAGCTCCAATTGAAGACTAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205973 representing BC011149
 Red=Cloning site Green=Tags(s)

MSALKRMMRVSNRSLIAFIFFFLSTSLYFIYVAPGIANITYLFMVQARGIMLRENVKTIghMIRLYTNK
 NTTLNGTDYPEGNNTSDYLVQTTTYLPQNFTYLPHLPCPEKLPYMRGFLSVNVSEISFDEVHQLFSKDSE
 IGPGGHWRPKDKCKPRWKVAVLIPFRNRHEHLPIFFLHLIPMLQKQRLEAFYVIEQTGTQPFNRAMLFNV
 GFKEAMKDRAWDVCVIFHDVDHLPENDRNYYGCGEMPRHFAAKLDKMYIILPYKEFFGGVSLTVEQFRKI
 NGFPNAFWGWGGEDDLWNRVHYAGYNVTRPEGLDKYISIPHHHRGEVQFLGRYKLLRYSKERQYIDGL
 NNLLYTPKILVDRLYTNIsvNLMPELAPIEDY

TRTRPLE - GFP Tag - V

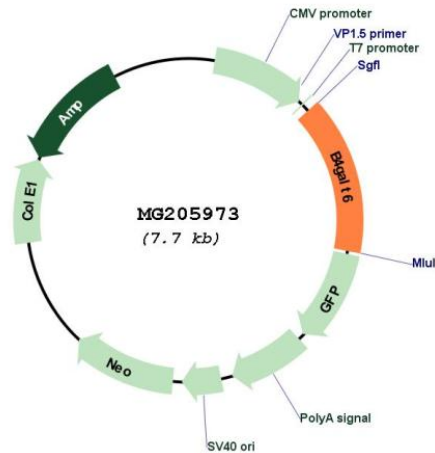
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

BC011149

ORF Size:	1148 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:	<ol style="list-style-type: none">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:	BC011149 , AAH11149
RefSeq Size:	1733 bp
RefSeq ORF:	1148 bp
Locus ID:	56386
Cytogenetics:	18 A2
Gene Summary:	Catalyzes the synthesis of lactosylceramide (LacCer) via the transfer of galactose from UDP-galactose to glucosylceramide (GlcCer) (PubMed:23882130, PubMed:30114188). LacCer is the starting point in the biosynthesis of all gangliosides (membrane-bound glycosphingolipids) which play pivotal roles in the CNS including neuronal maturation and axonal and myelin formation (PubMed:30114188).[UniProtKB/Swiss-Prot Function]