

Product datasheet for MR204794

B4galt7 (NM_146045) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B4galt7 (NM_146045) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	B4galt7
Synonyms:	MGC28643
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204794 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTGCCCTCCCGAGGAAAGCGGCGCAGCTGCCCTGGGAGGATGGCAGGGCCAGGTTGCTTCTGGAG
GCCTCCGCGGAAATGCTCCATCTCCACCTCTTCATTGCCTTTCTCCTGTTGGTCTTCTCTCCCTGCT
CTGGCTGCAGCTCAGCTGTTCTGGAGATATGGCCAGGTGACCAGGGGACAAGGGCAAGAGACCTCGGT
CCACCCCGGGCTTGCCCTCCAGAGCCGCCCTGAGCACTGGGAAGAAGATGAGTCCGGGGCCCCACC
GCTTGGCAGTGTGGTGCCTTTCTGTGAGCGCTTTGAGGAGCTGTGGTCTTTGTCCCCACATGCACCG
CTTCTAAGCAGGAAGAGGATCCAGCACCATCTATGTGCTCAACCAGGTGGACATTTCAAGTTCAAT
CGGGCAGCACTCAATGTGGGCTTCTGGAGAGCAGCAACAGCACAGACTACATCGCCATGCACGATG
TGGACCTGCTCCCTCTCAATGAGGAGCTGGACTATGGCTTCCCGGAGGCTGGGCCCTTCCATGTGGCCTC
CCCAGAGCTCCACCTCTTACCACTACAAGACCTATGTGGGCGGCACTTCTGCTGCTGTCCAAACAGCAC
TACCAGCTGTGCAACGGAATGTCCAACCGCTTTTGGGGCTGGGGCCGAGAGGATGATGAATTCTACCGGC
GCATCAAAGGAGCTGGCCTCCAGCTTTTCCGCCCTCGGAATCACAACTGGGTACCAGACATTTGCCA
CTTGATGACCTGCCTGGCGGAAGAGGGACAAAAACGATTGGGCTCAAAAACAGGAACAGTTCAAG
GTGGACCGGGAGGGAGGCTGAACACTGTGAAGTACCGGTGGATTCCCGCACGGCACTGTCTATAGGAG
GGCCCCGTGCACTGTCTCAATGTCTGCTGGACTGCGATAAAAACAGCCACCCCATGGTGCATATTTGG
C

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >MR204794 protein sequence
Red=Cloning site Green=Tags(s)

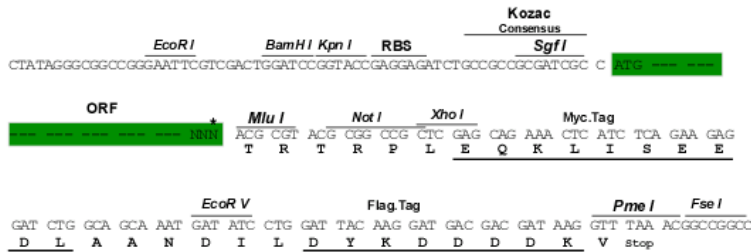
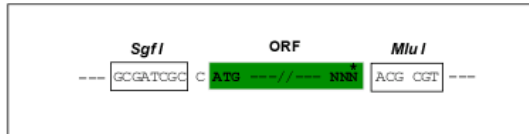
MLPSRRKAAQLPWEDGRARLLPGGLRRKCSIFHLFIAFLLL VFFSLLWLQLSCSGDMAQVTRGQGQETSG
 PPRACPPPEPPPEHWEDESWGPHRLAVLVPFRERFEELLVFPVPHMHRFLSRKRIQHIIYVLNQVDHFRFN
 RAALINVGFLSSNSTDYIAMHDVDLLPLNEELDYGFPEAGPFHVASPELHPLYHYKTYVGGILLLSKQH
 YQLCNGMSNRFWGWGREDEFYRRIKAGLQLFRPSGITTYQTFRHLHDPAWRKRDKRIAAQKQEQFK
 VDREGGLNTVKYRVDRTALSIGGAPCTVLNVMLDCDKTATPWCIFG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_146045

ORF Size: 984 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_146045.2](#), [NP_666157.1](#)

RefSeq Size: 1636 bp

RefSeq ORF: 984 bp

Locus ID: 218271

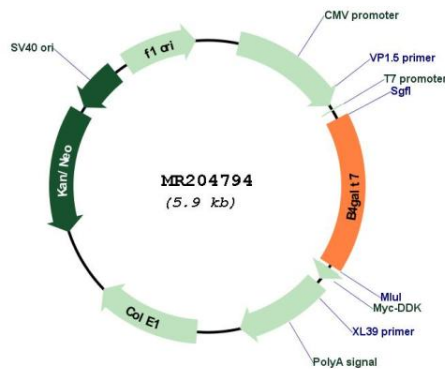
UniProt ID: [Q8R087](#)

Cytogenetics: 13 B1

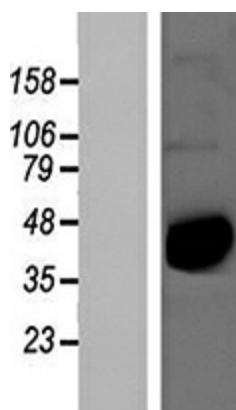
MW: 37.8 kDa

Gene Summary: Required for the biosynthesis of the tetrasaccharide linkage region of proteoglycans, especially for small proteoglycans in skin fibroblasts.[UniProtKB/Swiss-Prot Function]

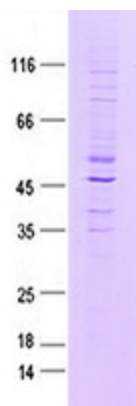
Product images:



Circular map for MR204794



Western validation with an anti-DDK antibody; L: Control HEK293 lysate R: Over-expression lysate



Coomassie blue staining of purified B4galt7 protein (Cat# [TP504794]). The protein was produced from HEK293T cells transfected with B4galt7 cDNA clone (Cat# MR204794) using MegaTran 2.0 (Cat# [TT210002]).