

## Product datasheet for **RR204737**

### **B4galt1 (NM\_053287) Rat Tagged ORF Clone**

#### Product data:

Product Type: Expression Plasmids  
 Product Name: B4galt1 (NM\_053287) Rat Tagged ORF Clone  
 Tag: Myc-DDK  
 Symbol: B4galt1  
 Synonyms: Ggtb2  
 Mammalian Cell Selection: Neomycin  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 ORF Nucleotide Sequence: >RR204737 representing NM\_053287  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAGGTTTCGTGAGCCGTTCTGGGCGGCAGCGCCGCGATGCCGGGCGCGACCTGCAGCGGGCTGCC  
 GCCTGCTCGTGGCGGTCTGCGCGCTGCACCTTGGCGTCACCTGGTCTATTACCTCTCCGGTCGCGATCT  
 GAGCCGCTGCCCAACTGGTCGGAGTCTCTCTTCACTGCAAGGCGGCACGAACGGCGCCGCCGAGC  
 AAGCAGCCCTCGGAGAGCTCCGGCCCCGGGCGCGCGCCGCCCTCTTTAGCGTCTCCCCGAAGC  
 CTGCCCCGGTCTGACTCCAGCCCTGATCGGGTCTTGCCCGGCCTGAAGAGCAACTGACTTCGGT  
 GCCAATGCCACCAGCACTGGATTGTTGACTCTGCCTGCTTGCCCTGAGGAGTCCCCGCTGCTCGTTGGC  
 CCCATGGTGATTGACTTTAATATTCCTGTGGATCTGGAGCTTTTGCAAAGAAGAACCCAGAGATAAAGA  
 TGGGCGGCCGTTACTTCCCAAGGACTGTATCTCCCTCACAAGGTGGCCATCATTATCCATTCCGTAA  
 CCGGCAGGAGCACCTCAAATACTGGCTGTATTATTTGCATCCAGTCTTCAGCGCCAGCAACTCGACTAT  
 GGCATCTACGTCAATCAGGCTGGAGACACCATGTTAATCGAGCTAAGCTGCTCAACGTTGGCTTTC  
 AAGAGGCCTTGAAGACTATGACTACAACGCTTTGTGTTCAAGTGTGGACCTCATTCCAATGGATGA  
 CCATAATGCCTACAGGTGCTTTTACAGCCACGGCATATTTCTGTGCAATGGACAAGTTCCGGTTTAGC  
 CTGCCTTACGTTACGATTTTGGAGGTGCTCCGCTCTCAGTAAACAACAGTTCCTTACCATCAATGGAT  
 TTCCTAATAATTACTGGGCTGGGAGGAGAAGATGATGACATTTTAAACAGATTAGTTCAAAAGGCAT  
 GTCTATATCACGCCAAATGCTGTGGTAGGAGGTGTCGCATGATCCGGCACTCAAGAGACAAGAAAAAT  
 GAGCCCAACCCTCAGAGTTTGACCGGATCGCACATAAAAGGAAACGATGCGCCTTGATGGTTTGAAC  
 CACTTACCTACCAGGTGTTGGACATACAGAGATACCCGTTATATACCAAATCACAGTGGACATCGGGAC  
 ACCAAGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR204737 representing NM\_053287  
 Red=Cloning site Green=Tags(s)

MRFREPFLGGSAAMPGATLQRACRLLVAVCALHLGVTLVYYLSGRDL SRLPQLVGVSSSLQGGTNGAAAS  
 KQPSGELRPRGARPPPPLGVSPKPRPGSDSSPDAASGPGPKSNLTSVPMPTSTGLLTL PACPEESPLLVG  
 PMVIDFNIPVDLELLAKKNPEIKMGGRYFPKDCISPHKVAIIIPFRNRQEHLYWLYLHPVLQRQQLDY  
 GIYVINQAGDTMFNRAKLLNVGFQEAL KDYDYNCFVFSVDVLI PMDDHNA YRCFSQPRHISVAMDKFGFS  
 LPYVQYFGGVSALSQQFLTINGFPNNYWGWGGEDDDFNRLVHKGMSISRPNAVVGRCRMIRHSRDKKN  
 EPNPQRFDRIAHTKETMRLDGLNSLTYQVLDIQRYPLYTKITVDIGTPR

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\_053287

**ORF Size:** 1197 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\\_053287.1](#), [NP\\_445739.1](#)

**RefSeq Size:** 2298 bp

**RefSeq ORF:** 1200 bp

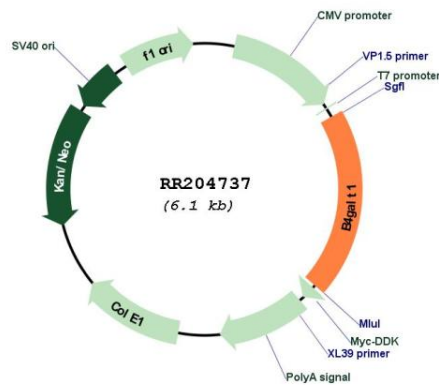
**Locus ID:** 24390

**Cytogenetics:** 5q22

**MW:** 44.5 kDa

**Gene Summary:** plays a role in N-linked oligosaccharide biosynthesis [RGD, Feb 2006]

**Product images:**



Circular map for RR204737