

Product datasheet for MC200933

Galt (BC010985) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Galt (BC010985) Mouse Untagged Clone
Tag: Tag Free
Symbol: Galt
Synonyms: AW553376
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC010985
 CCACGCGTCGCTCACCTGTGTACCTTAGGTCAATTCGTGTGGCCTCATGTCGCATAGCGGAGCGGATCC
 TGAGCAGCGCCAGCAGGCTTCAGAGCGGACGCCATGGCAGCGACCTTCCGGGCGAGCGAACACCAGCAT
 ATTCGCTACAACCCGCTCCAGGACGAGTGGGTGTAGTGTGCGCTCATCGCATGAAGCGGCCTGGCAAG
 GACAAGTGGAGCCCCAGCTTCTAAAGACAGTGCCCGCCACGACCCACTCAACCTCTGTGTCCCGGGC
 CACACGAGCTAATGGGGAGGTGAATCCCCACTATGATGGCACCTTTCTGTTTGACAATGACTTCCCGGCT
 CTGCAGCCCGATGCTCCGGATCCAGGAACCAGTGACCACCCTCTTCCGAGCAGAGGCCCGCAGAGGAG
 TTTGTAAGGTCATGTGCTTCCACCCTGGTCGGATGTGACGCTGCCACTCATGTCTGTCCCTGAGATCCG
 AGCTGTCATCGATGCATGGGCTCAGTAACAGAGGAGCTGGGTGCCAGTACCCTTGGGTGCAGATCTTT
 GAAAATAAAGGAGCCATGATGGGCTGTTCTAACCCCATCCCCACTGCCAGGTTTGGGCTAGCAGCTTCC
 TGCCAGATATCGCCAGCGTGAAGAGCGATCCCAGCAGACCTATCACAGCCAGCATGGAAAACCTTTGTT
 ATTGGAATATGGTCACCAAGAGCTCCTCAGGAAGGAACGTCTGGTCTAACCCAGTGAGCACTGGATAGTT
 CTGGTCCCCTTCTGGGCAAGTGTGGCCTTCCAGACACTTCTGCTGCCCGGCGGCACGTGCGGCGGTAC
 CTGAGCTGAACCCCGCTGAGCGTGATGATCTCGCCTCCATCATGAAGAAGCTCTTGACCAAGTACGACAA
 TCTATTTGAGACATCCTTTCCCTACTCCATGGGCTGGCATGGGGCTCCCACGGGATTAAGACTGGAGCC
 ACCTGTGACCACTGGCAGCTCCACGCCACTACTACCCCACTTCTGCGATCCGCAACTGTCCGGAAGT
 TCATGGTTGGCTATGAAATGCTTGCCAGGCCAGCGTGACCTCACTCCCGAACAGGCCGAGAAAGATT
 AAGGGCACTTCCCGAGGTACACTATTGCCTGGCGCAGAAAAGACAAGGAAACGGCAGCCATTGCTTGACTG
 TGACCACATCAGGGCCTTGAATCTTTGTATCTGACAGACCTGGGACCTGGAGTTCGGGCAGATGTGACAT
 CAATAAACTGCGTCTCACATTTTAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: BC010985
Insert Size: 1083 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	BC010985 , AAH10985
RefSeq Size:	1300 bp
RefSeq ORF:	1083 bp
Locus ID:	14430
Cytogenetics:	4 22.07 cM
Gene Summary:	The protein encoded by this gene is the second enzyme in the Leloir pathway, the metabolic pathway for D-galactose catabolism. It catalyzes the conversion of galactose-1-phosphate and uridine diphosphate-glucose to glucose-1-phosphate and uridine diphosphate galactose. Deficiency of this enzyme causes the genetic metabolic disorder galactosemia. Mice lacking this protein accumulate high levels of galactose and galactose-1 phosphate but are viable and fertile. This protein is negatively regulated through signaling by the polypeptide hormone prolactin, specifically via the short isoform of the prolactin receptor and the transcription factor Forkhead box O3. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2014]