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Product datasheet for MC226275

Galt (NM_001302511) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Galt (NM_001302511) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Galt
Synonyms:	AW553376
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC226275 representing NM_001302511 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGATGGGCTGTTCTAACCCCCATCCCCACTGCCAGGTTTGGGCTAGCAGCTTCCTGCCAGATATCGCCC AGCGTGAAGAGCGATCCCAGCAGACCTATCACAGCCAGCATGGAAAACCTTTGTTATTGGAATATGGTCA CCAAGAGCTCCTCAGGAAGGAACGTCTGGTCCTAACCAGTGAGCACTGGATAGTTCTGGTCCCCTTCTGG GCAGTGTGGCCTTTCCAGACACTTCTGCTGCCCCGGCGGCACGTGCGGCGGCTACCTGAGCTGAACCCCG CTGAGCGTGATGATCTCGCCTCCATCATGAAGAAGCTCTTGACCAAGTACGACAATCTATTTGAGACATC CTTTCCCTACTCCATGGGCTGGCATGGGGCTCCCACGGGATTAAAGACTGGAGCCACCTGTGACCACTGG CAGCTCCACGCCCACTACTACCCCCCACTTCTGCGATCCGCAACTGTCCGGAAGTTCATGGTTGGCTATG AAATGCTTGCCCAGGCCCAGCGTGACCTCACTCCCGAACAGGCCGCAGAAAGATTAAGGGCGCTTCCCGA GGTACACTATTGCCTGGCGCAGAAAGACAAGGAAACGGCAGCCATTGCTTGA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Restriction Sites:	SgfI-MluI
ACCN:	NM_001302511
Insert Size:	612 bp
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).

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OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001302511.1, NP_001289440.1
RefSeq Size:	1544 bp
RefSeq ORF:	612 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] Transcript Variant: This variant (2) uses an alternate exon structure at the 5' end and utilizes a downstream start codon compared to variant 1. The resulting isoform (2) has a shorter N-terminus compared to isoform 1. Variants 2, 7, 8, and 9 all encode the same isoform (2). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.