

Product datasheet for **MR205914**

Galt (NM_016658) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Galt (NM_016658) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Galt |
| Synonyms: | AW553376 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >MR205914 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGCGACCTTCGGGCGAGCGAACACCAGCATATTCGCTACAACCCGCTCCAGGACGAGTGGGTGT
TAGTGTGGCTCATCGCATGAAGCGGCCCTGGCAAGGACAAGTGGAGCCCAGCTTCTAAAGACAGTGCC
CCGCCACGACCCACTCAACCCTCTGTGTCCCGGGCCACACGAGCTAATGGGGAGGTGAATCCCACTAT
GATGGCACCTTTCTGTTGACAATGACTTCCCGGCTCTGCAGCCCGATGCTCCGGATCCAGGAACCAGTG
ACCACCCTCTCTCCGAGCAGAGGCCGCCAGAGGAGTTTGTAAAGTTCATGTGCTTCCACCCTGGTCGGA
TGTGACGCTGCCACTCATGTCTGTCCCTGAGATCCGAGCTGTTCATCGATGCATGGGCCTCAGTAACAGAG
GAGCTGGGTGCCAGTACCCCTGGGTGCAGATCTTTGAAAATAAAGGAGCCATGATGGGCTGTTCTAACC
CCCATCCCACTGCCAGGTTTGGGCTAGCAGCTTCTGCCAGATATCGCCAGCGTGAAGAGCGATCCCA
GCAGACCTATCACAGCCAGCATGGAAAACCTTTGTTATTGGAATATGGTCACCAAGAGCTCCTCAGGAAG
GAACGTCTGGTCTAACCAGTGAGCACTGGATAGTTCTGGTCCCCTTCTGGGCAGTGTGGCTTTCCAGA
CACTTCTGCTGCCCGGGCGGCACGTGCGGCGGCTACCTGAGCTGAACCCCGCTGAGCGTGATGATCTCGC
CTCCATCATGAAGAAGCTCTTGACCAAGTACGACAATCTATTTGAGACATCCTTTCCCTACTCCATGGGC
TGGCATGGGCTCCCACGGGATTAAGACTGGAGCCACCTGTGACCACTGGCAGTCCACGCCACTACT
ACCCCACTTCTGCGATCCGCAACTGTCCGGAAGTTTCATGGTTGGCTATGAAATGCTTGCCACGGCCCA
GCGTGACCTCACTCCCGAACAGGCCGAGAAAGATTAAGGGCACTTCCCGAGGTACACTATTGCCTGGCG
CAGAAAGACAAGGAAACGGCAGCCATTGCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205914 protein sequence
 Red=Cloning site Green=Tags(s)

MAATFRASEHQHIRYNPLQDEWVLSAHRMKRPWQGQVEPQLLKTVPRHDPLNPLCPGATRANGEVNPHY
 DGTFLFDNDFPALQPDAPDPGTS DHPLFRAEAARGVCKVMCFHPWSDVTLPLMSVPEIRAVIDAWASVTE
 ELGAQYPWVQIFENK GAMMGCSNPHPHCQVWASSFLPDIAQREERSQQT YHSQH GKPLLL EYGHQELLRK
 ERLVLTSEHWIVLV PFWAVWPFQTL LPRRHVRRLELNPAERDDLASIMKLLTKYDNL FETSF PYSMG
 WHGAPTGLKTGATCDHWQLHAHYYP LLSATVRKFMVGYEMLAQAQRDLTPEQAAERL RALPEVHYCLA
 QKDKETA AIA

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_016658

ORF Size: 1083 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 Size: 2000 bp

RefSeq ORF: 1083 bp

Locus ID: 14430

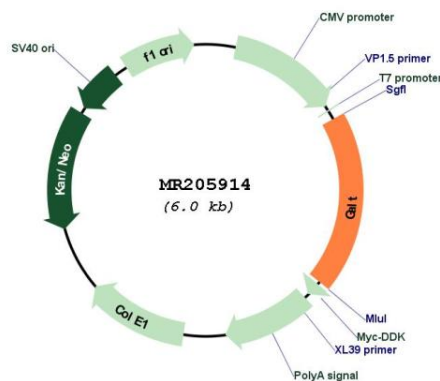
UniProt ID: [Q03249](#)

Cytogenetics: 4 22.07 cM

MW: 41.2 kDa

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]

Product images:



Circular map for MR205914