

Product datasheet for MR228486

Galt (NM 001302511) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Galt (NM_001302511) Mouse Tagged ORF Clone

Tag: Myc-DDK

Symbol: Galt

Synonyms: AW553376

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

Cell Selection: Neomycin

ORF Nucleotide >MR228486 representing NM_001302511
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

 ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR228486 representing NM_001302511

Red=Cloning site Green=Tags(s)

MMGCSNPHPHCQVWASSFLPDIAQREERSQQTYHSQHGKPLLLEYGHQELLRKERLVLTSEHWIVLVPFW AVWPFQTLLLPRRHVRRLPELNPAERDDLASIMKKLLTKYDNLFETSFPYSMGWHGAPTGLKTGATCDHW QLHAHYYPPLLRSATVRKFMVGYEMLAQAQRDLTPEQAAERLRALPEVHYCLAQKDKETAAIA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-Mlul



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

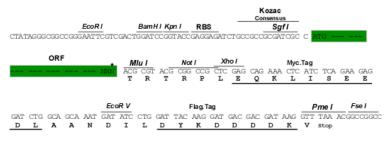
Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

CN: techsupport@origene.cn



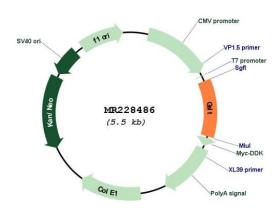
Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001302511

ORF Size: 609 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: <u>NM 001302511.2</u>

RefSeq Size: 1544 bp
RefSeq ORF: 612 bp
Locus ID: 14430
Cytogenetics: 4 22.07 cM

MW: 24 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]