GALT cDNA

Catalog Number: ATGD0007

PRODUCT INFORMATION

Catalog number
ATGD0007

Product type
cDNA

Species
Human

NCBI Accession No.
NP_000146.2

Alternative Names

mRNA Refseq
NM_000155.3

OMIM
606999

Chromosome location
9q13

PRODUCT SPECIFICATION

Formulation
Lyophilized

Storage
Store the plasmid at -20C.

cDNA Size
1140bp

Preparation before usage
1. Centrifuge at 7000rpm for 1 minute.
2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA.
Each tube contains approximately 10ug of lyophilized plasmid.

Vector description
This shuttle vector contains the complete ORF. It is inseted BamH I to Hind III. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

Cloning Vector
pATGen (puc19-derived cloning vector)

General Description
GALT catalyzes the second step of the Leloir pathway of galactose metabolism, namely the conversion of uDP-

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glucose + galactose-1-phosphate to glucose-1-phosphate + uDP-galactose. The absence of this enzyme results in classic galactosemia in humans and can be fatal in the newborn period if lactose is not removed from the diet. The pathophysiology of galactosemia has not been clearly defined. Two transcript variants encoding different isoforms have been found for this gene

DATA

Sequence nucleotides

ATGTCGCGCA GTGGAACCGA TCCTCAGCAA CGCCAGCAGG CGTCAGAGGC GGACGCCGCA GCAGCAACCT
TCCGGGCAAA CGACCATCAG CATATCCGCT ACAACCCGCT GCAGGATGAG TGGGTGCTGG TGTCAGCTCA
CCGCATGAAG CGGCCCTGGC AGGGTCAAGT GGAGCCCCAG CTTCTGAAGA CAGTGCCCCG CCATGACCCT
CTCAACCCTC TGTGTCCTGG GGCCATCCGA GCCAACGGAG AGGTGAATCC CCAGTACGAT AGCACCTTCC
TGTTTGACAA CGACTTCCCA GCTCTGCAGC CTGATGCCCC CAGTCCAGGA CCCAGTGATC ATCCCCTTTT
CCAAGCAAAG TCTGCTCGAG GAGTCTGTAA GGTCATGTGC TTCCACCCCT GGTCGGATGT AACGCTGCCA
CTCATGTCGG TCCCTGAGAT CCGGGCTGTT GTTGATGCAT GGGCCTCAGT CACAGAGGAG CTGGGTGCCC
AGTACCCTTG GGTGCAGATC TTTGAAAACA AAGGTGCCAT GATGGGCTGT TCTAACCCCC ACCCCCACTG
CCAGGTATGG GCCAGCAGTT TCCTGCCAGA TATTGCCCAG CGTGAGGAGC GATCTCAGCA GGCCTATAAG
AGTCAGCATG GAGAGCCCCT GCTAATGGAG TACAGCCGCC AGGAGCTACT CAGGAAGGAA CGTCTGGTCC
TAACCAGTGA GCACTGGTTA GTACTGGTCC CCTTCTGGGC AACATGGCCC TACCAGACAC TGCTGCTGCC
CCGTCGGCAT GTGCGGCGGC TACCTGAGCT GACCCCTGCT GAGCGTGATG ATCTAGCCTC CATCATGAAG
AAGCTCTTGA CCAAGTATGA CAACCTCTTT GAGACGTCCT TTCCCTACTC CATGGGCTGG CATGGGGCTC
CCACAGGATC AGAGGCTGGG GCCAACTGGA ACCATTGGCA GCTGCACGCT CATTACTACC CTCCGCTCCT
GCGCTCTGCC ACTGTCCGGA AATTCATGGT TGGCTACGAA ATGCTTGCTC AGGCTCAGAG GGACCTCACC
CCTGAGCAGG CTGCAGAGAG ACTAAGGGCA CTTCCTGAGG TTCATTACCA CCTGGGGCAG AAGGACAGGG
AGACAGCAAC CATCGCCTGA

Transaction Sequence

MSRSGTDPQQ RQQASEADAA AATFRANDHQ HIRYNPLQDE WVLVSAHRMK RPWQGQVEPQ LLKTVPRHDP
LNPLCPGAIR ANGEVNPQYD STFLFDNDFP ALQPDAPSPG PSDHPLFQAK SARGVCKVMC FHPWSDVTLP LMSVPEIRAV
VDAWASVTEE LGAQYPWVQI FENKGAMMGC SNPHPHCQVW ASSFLPDIAQ REERSQQAYK SQHGEPLLME YSRQELLRKE
RLVLTSEHWL VLVPFWATWP YQTLLLPRRH VRRLPELTPA ERDDLASIMK KLLTKYDNLF ETSFPYSMGW HGAPTGSEAG
ANWNHWQLHA HYYPPLLRSA TVRKFMVGYE MLAQAQRDLT PEQAAERLRA LPEVHYHLGQ KDRETATIA