

Product datasheet for **MR204527**

C1galt1c1 (NM_021550) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C1galt1c1 (NM_021550) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C1galt1c1
Synonyms:	1500002I11Rik; AB030184; C1GalT2; C81205; Cosmc
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204527 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTTTCAGAAAGCAGTTCCTTTTTGAAGGGTGTGATGCTTGGAAAGCATCTTCTGTGCCTTGATCACTA
TGCTAGGCCACATTAGGATTGGAAACAGAATGCACCACCATGAGCATCACCATCTGCAAGCCCCTAACAA
AGACGATATCTCGAAAATTTAGAGGCTGAACGCATGGAGCTCAGTAAGAGTTTCCGGGTACTGTATA
GTTCTTGTAAAACCAAAGATGTGAGTCTTTGGGCTGCAGTGAAGGAGACTTGGACCAAACACTGTGACA
AAGCAGAATTCTCAGTCTGAAAATGTTAAAGTGTGAGTCAATTAATATGGACACAAATGACATGTG
GTTGATGATGAGGAAAGCTTACAAATATGCTTATGATCAATACAGGGACCAATACAAGTCTTCTCCTT
GCACGCCCCACTACTTTCGCTGTTATTGAAAACCTCAAATATTTTTGTTAAAAAAGGATCAATCCCAAC
CTTTCTATCTCGACACACTGTAATCTGGAGACCTTGAATATGTGAGTGTGGATGGAGGAATTGTCTT
AAGCATAGAATCAATGAAAAGACTCAACAGTCTTCTCAGTGTTCCTGAAAAGTGTCTGAAACAAGGAGGA
ATGATTTGGAAGATATCTGAAGATAAACAGCTGGCGGTCTGCCTGAAATACGCCGGAGTATTTGCAGAAA
ATGCCGAAGATGCCGATGGAAAAGATGTGTTAATACCAAATCCGTTGGCCTTTTCATTAAGAGGCAAT
GACTAACCAACCAACCAGGTAGTAGAAGGCTGTTGCTCTGATATGGCTGTTACTTTCAATGGACTGACT
CCTAATCAGATGCACGTGATGATGATGGGGTGTACCGGCTTAGGCATTGGACATGTTTTCAATGATG
CATTGGTTTTCTTACCTCAAATGGTTCTGAGAATGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204527 protein sequence
Red=Cloning site Green=Tags(s)

MLSESSSFLKGVMLGSIFCALITMLGHIRIGNRMHHEHHHLQAPNKDDISKISEAERMELSKSFRVYCI
 VLVKPKDVSLWAAVKETWTKHCDAEFFSSENVKVFESINMDTNDMWLMMRKAYKYAYDQYRDQYNWFFL
 ARPTTFAVIENLKYFLLKKDQSQPFYLGHTVKSGDLEYVSVDDGGIVLSIESMKRLNSLLSVPEKCEQGG
 MIWKISEDKQLAVCLKYAGVFAENAEDADGKDFNTKSVGLFIKEAMTNQPNQVVEGCCSDMAVTFNGLT
 PNQMHVMMYGVYRLRAFGHVFNDAVFLPPNGSEND

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_021550

ORF Size: 951 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: [NM_021550.3](#)

RefSeq Size: 1507 bp

RefSeq ORF: 951 bp

Locus ID: 59048

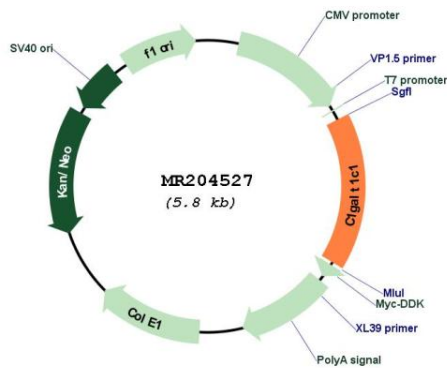
UniProt ID: [Q9JMG2](#)

Cytogenetics: X A3.3

MW: 36.1 kDa

Gene Summary: Probable chaperone required for the generation of 1 O-glycan Gal-beta1-3GalNAc-alpha1-Ser/Thr (T antigen), which is a precursor for many extended O-glycans in glycoproteins. Probably acts as a specific molecular chaperone assisting the folding/stability of core 1 beta-3-galactosyltransferase (C1GALT1) (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204527