

## Product datasheet for MR205570

### C1galt1 (NM\_052993) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	C1galt1 (NM_052993) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C1galt1
Synonyms:	2210410E06Rik; AV284120; T-synthase
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205570 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCTCTAAATCTTGGCTGAATTTTTAGTCTTCTCTGTGGATCAGCAATAGGGTTTTTTTTATGTT  
CTCAACTCTTGAGTATTTTGTTCGAGAAGAGGCTGCCATTACGCTAACATGCTTACAATGACCTCA  
TGCAAGGCATTGAGATGACAATGGACACAGTCACCTCAAAGGACAGATGAACTTCAATGCAGATCCAGC  
CAACATAAAGATGAGAACATAGACGTTGCTGAGAACCTCTATCAGAAAGTAAAAATCTTTGTTGGGTTA  
TGACAAGTCCTCAAATCTAGAGAAAAAGGCCAAACATGTCAAAGCTACGTGGGCCAGCGTTGTAATAA  
AGTGTATTTATGAGTTCGGAAGAAAATCAGGACTCCCTACTGTGGGATTGAAAACCAAAGAGGCAGA  
GAGCAACTATATTGAAAACAATTAAGCTTTCCAGTATGTACATGACCATTATTTAGAAGATGCTGACT  
GGTTTATGAAAGCAGATGACGACACATACGTCATTGTGGACAACCTGAGATGGCTTCTATCAAAGTATGA  
CCCTGAACAACCCATTTACTTTGGGCGAAGATTAAGCCCTATGTGAAGCAGGGATACATGAGCGGAGGA  
GCGGGCTATGTCCTAAGCAAGGAAGCCTTGAGAAGATTTGTTAATGCATTTAAAACAGAAAAGTGTACAC  
ATAGTTCCTCCATCGAAGACTTAGCTCTGGGAAGGTGCATGGAATTAATAATGTAGAAGCTGGAGATTC  
CAGAGATACCATTGGGAAAAGAACTTCCATCCATTTGTACCAGAACACCACTTAATCAAAGTTATCTA  
CCAAAAACATTTTGGTACTGGAATTACAACATTTATCCTCCATAGAGGGTCTGGATGCTGTTCTGATA  
TTGCAGTTTCTTTTCACTATGTTGATGGGACAACATATGATGAATTAGAATACCTCGTTTATCGTCTTCG  
TCCATATGGTTGTTTATATAGATATCAACCTGCCTTACCTGAGAATATACTGAAAGAAATTAATCAAGTA  
AACAGAAAGGAAGATACAAAAATAAAATTAGGCAACCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR205570 protein sequence  
Red=Cloning site Green=Tags(s)

MASKSWLNFLVFLCGSAIGFFLCSQLLSILLREEAIIQPNMLHNDPHARHSDDNGHSHLKGQMFNADSS  
 QHKDENIDVAENLYQKVKILCWVMTSPQNLKAKHVKATWAQRCNKVLFMSSEENQDFPTVGLKKEGR  
 EQLYWKTIKAFQYVVDHYLEDADWFMKADDDTYIVDNLRWLLSKYDPEQPIYFGRRFKPYVKQGYMSGG  
 AGYVLSKEALRRFVNAFKTEKCTHSSSIEDLALGRCMEIINVEAGDSRDTIGKETFHFPVPEHHLIKGYL  
 PKTFWYWNYYPPIEGPGCCSDIAVSFHYVDGTTMYELELYVYRLRPYGCLYRYQPALPENILKEINQV  
 NRKEDTKIKLGNP

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\_052993

**ORF Size:** 1092 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\\_052993.2](#), [NP\\_443719.2](#)

**RefSeq Size:** 2084 bp

**RefSeq ORF:** 1092 bp

**Locus ID:** 94192

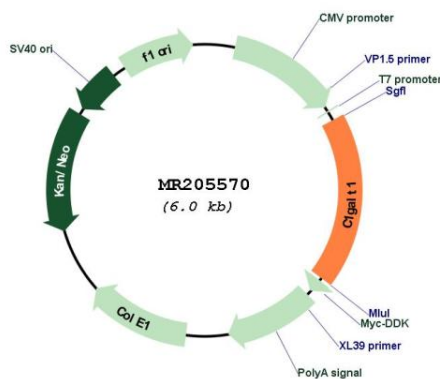
**UniProt ID:** [Q9JJ06](#)

**Cytogenetics:** 6 A1

**MW:** 42.3 kDa

**Gene Summary:** Glycosyltransferase that generates the core 1 O-glycan Gal-beta1-3GalNAc-alpha1-Ser/Thr (T antigen), which is a precursor for many extended O-glycans in glycoproteins. Plays a central role in many processes, such as angiogenesis, thrombopoiesis and kidney homeostasis development.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR205570