

## Product datasheet for **RR209861**

### **C1galt1c1 (NM\_001030033) Rat Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** C1galt1c1 (NM\_001030033) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** C1galt1c1  
**Synonyms:** RGD1311230  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR209861 representing NM\_001030033  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCTTTCAGAAAGCAGTTCATTTTTGAAGGGTGTGATGCTTGAAGCATCTTCTGTGCCTTGATCACTA  
TGCTAGGCCACATTAGGATTGAAACAGAATGCACCACCATGAACATCACCATCTGCAAGCCCCTAACAA  
AGATGATATCTTGAAAATTTAGAGACTGAACGCATGGAGCTTAGTAAGAGTTTCCAGGTATACTGTATA  
GTTCTCGTAAAACCTAAAGATGTGAGTCTTTGGGCTGCAGTGAAGGAGACTTGGACCAAACACTGTGACA  
AAGCAGAATTCCTCAGTCTGAAAATGTTAAAGTGTGGAGTCAATTAATATGGACACAAATGATATGTG  
GTTGATGATGAGGAAAGCTTACAAATATGCTTATGATAAATACAAGGACCAATACAACCTGTTCTTCCTT  
GCACGCCCACTACTTTTCGCTGTTATTGAAAATCTCAAAATTTTTTTGTTAAGAAAGGATCCATCACAAC  
CTTTCTATCTAGGTCACACTGTAATCTGGAGACCTTGAATATGTGAGTGTGGATGGAGGAATTGTCTT  
AAGCATAGAATCAATGAAAAGACTCAATGGCCTTCTCAGTGTTCCTGAAAAGTGCCTGAACAAGGAGGA  
ATGATTTGGAAGATATCTGAAGATAAGCAGCTAGCAGTCTGCCTGAAATATGCTGGAGTATTTGCAGAAA  
ATGCAGAAGACGCCGATGAAAAGATGTGTTAATACCAATCTGTTGGGCTTTTCATTAAGAGGCAAT  
GACTAACCAACCAACCAGGTAGTAGAAGGATGTTGCTCTGATATGGCTGTACTTTCAATGGACTGACT  
CCTAATCAGATGCATGTGATGATGATGATGGGGTGTACCGCTTAGGGCATTGGACATGTTTTCAATGATG  
CATTGGTTTTCTTACCTCCGAATGGTTCTGAGAATGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR209861 representing NM\_001030033  
 Red=Cloning site Green=Tags(s)

MLSESSSFLKGVMLGSIFCALITMLGHIRIGNRMHHEHHHLQAPNKDILKISETERMELSKSFQVYCI  
 VLVKPKDVSLWAAVKETWTKHCDAEFFSSENVKVFESINMDTNDMWLMMRKAYKYAYDKYKQYNWFFL  
 ARPPTTFAVIENLKYFLLRKDPSQPFYLGHTVKSGDLEYVSVGGIVLSIESMKRLNGLLSVPEKPEQGG  
 MIWKISEDKQLAVCLKYAGVFAENAEDADGKDFNTKSVGLFIKEAMTNQPNQVVEGCCSDMAVTFNGLT  
 PNQMHVMMYGVYRLRAFGHVFNDAVFLPPNGSEND

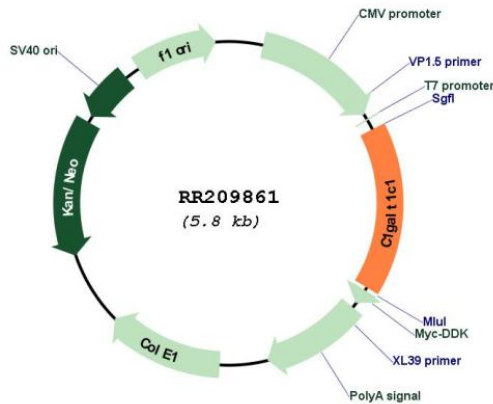
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001030033

**ORF Size:** 948 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001030033.1</a> , <a href="#">NP_001025204.1</a>
<b>RefSeq Size:</b>	1356 bp
<b>RefSeq ORF:</b>	951 bp
<b>Locus ID:</b>	302499
<b>UniProt ID:</b>	<a href="#">Q499P3</a>
<b>Cytogenetics:</b>	Xq35
<b>MW:</b>	36 kDa
<b>Gene Summary:</b>	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]