

## Product datasheet for **MC217649**

### **Csgalnact1 (NM\_172753) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Csgalnact1 (NM_172753) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Csgalnact1
Synonyms:	4732435N03Rik; CSGalNAct-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC217649 representing NM\_172753  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTCCGCCCGGGCTGCTGGGGTGGATTTCTCGGGTAGTGATTCTGCTGGTGTCTCTGTTGTGCCA  
 TCTCTGTCTCTACATGTTAGCCTGCACTCCAAAAGGCGACCAGGAGCAGTTGGGACTGCCACGGGCCAA  
 TGGACCCACAGGCAAAGATGGCTACCAAGCGGTGCTGCAGGAGCGGAGGAACAGCATCGTAACTATGTG  
 AATAGCCTTAAACGACAGATAGCTCAGCTAAAGGATGAACTGCAGGCACGCAGTGAGCAGTCCGCAGTG  
 GGCAGGACCAGGCCAGCGATGCCACCAGCCTGCGCTCAGGCTGGGACCGTGAGCCCAAAGCCAGGCCGA  
 TCTGCTGGCCTTCTGCGTGGACAGGTGGACAAGGCCGAGGTACATGCCGGTGTCAAGCTGGCCACGGAG  
 TATGCTGTGTGCCTTTTGATAGCTTCACTCTGCAGAAAGTATACCAGCTGGAGACTGGCCTGACCCGCC  
 ACCCTGAGGAGAAGCCAGTGAGGAAAGACAAGCCGCGATGAGCTGGTAGAAGCCATCGAATCGGCCCTGGA  
 GAGTCTAAACAGCCCTGTGGAGAGCAGCCACACCAGCGTCCTTACACAGCTGCAGACTTCATAGAAGGG  
 ATTTACCGAACCAGGATAAAGGCACCTTTGTATGAGCTGACCTTCAAAGGGGACCACAAGCATGAAT  
 TCCAGCGACTTGTCTATTTTCGACCTTTTGCCCCATCATGAAAGTGAAAAGGAAAAACTCAACCTGGC  
 CAACACGCTTATCAATGTTATTGTGCCCTAGCGAGGAGGGTGGACAAGTCCGGCACTTCATGCAGAAC  
 TTCAGGGAGATGTGCATCCAACAGGATGGGAGAGTTTCACTCACCGTTGTTTATTTTGGGAAAGAAGAAA  
 TGAATGAAGTCAAAGGAATACTTGAAAACACTTCAAAGCTGCCAATTTTCAAGAACTTCACTTCATCCA  
 ACTGAATGGAGAATCTCCCGGGGAAAGGGACTGGATGTTGGAGCCCGCTTCTGGAAGGGAAGTAACGTC  
 CTGCTCTTTTCTGTGATGTAGACATCTACTTCACTCGGAGTTCCTCAACACTTGTAGGCTGAACACAC  
 AGCCAGGGAAGAAGGTATTTTATCCGGTCTGTTCACTCAGTATTAACCCGGCGTAATCTACGGCTTCA  
 CGATGCAGTCCCTCCGCTAGGACAGCAGCTGGTCAAAAGAAGGAAACAGGATTTTGGAGGGACTTTGGA  
 TTTGGGATGCATGTCAGTACCGGTGCACTTCATCAACATAGGTGGATTTGACCTGGACATCAAAGGCT  
 GGGGTGGTGAAGATGTGCACCTGTACCGGAAATATCTCCATAGCAACCTCATAGTGGTCCGCACACCTGT  
 ACGGGGACTTTTCCACCTGTGGCATGAAAAGCACTGTATGGATGAACTGACCCCTGAGCAGTACAAGATG  
 TGCATGCAATCAAAGGCTATGAATGAAGCATCCCATGGGCAGCTGGGGATGCTTGTCTTCCGGCATGAAA  
 TAGAGGCTCATCTCGCAAACAGAAGCAGAAAGCCAGCAGTAAAAAGACATGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_172753

**Insert Size:** 1593 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

<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_172753.5</a> , <a href="#">NP_766341.4</a>
<b>RefSeq Size:</b>	3943 bp
<b>RefSeq ORF:</b>	1593 bp
<b>Locus ID:</b>	234356
<b>UniProt ID:</b>	<a href="#">Q8BJQ9</a>
<b>Cytogenetics:</b>	8 B3.3
<b>Gene Summary:</b>	<p>Transfers 1,4-N-acetylgalactosamine (GalNAc) from UDP-GalNAc to the non-reducing end of glucuronic acid (GlcUA). Required for addition of the first GalNAc to the core tetrasaccharide linker and for elongation of chondroitin chains. Important role in chondroitin chain biosynthesis in cartilage formation, and subsequent endochondral ossification (PubMed:17145758, PubMed:21148564). Moreover, is involved in the metabolism of aggrecan (PubMed:21148564).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Both variants 1 and 2 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>