

Product datasheet for **MG215751**

Csgalnact2 (NM_030165) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Csgalnact2
Synonyms:	4632415D10Rik; Galnact2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence: >MG215751 representing NM_030165
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGTCTAGAAGAGGATCGATTCTGCACAGCCGGACCCAGTGGCTGCTGTTGGGCCTTGCTTTGCTCTTCA
 GTTTAGTATTATTTATGTACCTCCTGGAATGTGCCCCCCAGACTGATGGAAATGCTTCTCTTCTGGTGT
 TGTTAGAGAAAATTATGGTAAAGAATATTACCAGGCCCTCCTGCAGGAGCAAGAAGAACATTACCAAACC
 AGGGCAACCAGTCTGAAACGCCAGATTGCCAGCTAAAGCAAGAATTACAAGATATGAGTGAGAAGATGA
 GAGCCTTGAAGAGAGAAGAAGCTAGGGGCTAACGGCGTAGGCTATCCTGGCAACAGAGAGCAGGCACC
 CAGTGACCTCTTAGAGTTTCTTCACTCCCAGATCGATAGAGCTGAAGTTAGCGTGGGGCCAAACTCCCC
 AGTGAGTATGGAGTCGTTCCCTTTGAAAGTTTTACTTTAATGAAAGTATTTTCAGTTGGAAATGGGCTCA
 CTCGCCATCCTGAAGAAAAGCCAGTTAGAAAAGACAAACGAGACGAACTGGTAGAAGTTATTGAAGCTGG
 CGTGGAGGTCATTAAATCCTGATGAAGATGATGCACAGGAAGATGAGGAGGGTCCCCTTGGAGAGAAA
 CTGATATTTAATGAAAATGACTTCATAGAAGGCTATTATCGCACTGAGAGAGATAAAGGCACGCAGTATG
 AACTGTTTTTAAGAAAAGCAGACCTTATGGAGTACAGACATGTGACCCTCTTCCGCCCTTTTGGACCTCT
 CATGAAAGTGAAGAATGAACTGATCGACATTACAAGATCAGTTATTAATATCATTGTGCCACTTGGCGAG
 AGGACAGAGGCGTTTTACAGTTTATGCAGAACTTCAGAGATGTTTGTATTATCAAGACAAGAGGATTC
 ATCTACCCGTTGTGATTTTGGGAAAAGAAGGACTATCTAAAGTCAAGTCTATTCTAGAATCTGTCTCAAG
 TGAGTCTGATTTTCACAATTACACCTTGGTCTCGTTGGACGAAGAATTTAATCGTGGACGAGGACTAAAT
 GTGGGTGCCGAGCTTGGGACAAGGGAGAGGTCTTGATGTTTTTCTGTGATGTTGATATATATTTCTCAG
 CTGAATTCCTAACAGCTGCCGTTAAATGCTGAGCCAGGTAAGGTTTACCCTGTGGTGTTCAG
 TCTTACAACCCTGCCATTGTCTATGCCAACAGGACGTGCCGCCCTTGGAGCAGCAGCTGGTTCAT
 AAAAAGGACTCTGGTTTTTGGAGAGACTTTGGCTTTGGGATGACCTGTCAATATCAATCGGATTTCTGA
 GTGTCGGTGGATTGCAGATGGAAGTAAAAGGCTGGGGTGGAGAAGATGTTATCTTTACGAAAAATACCT
 ACACGGTGATCTTATTGTGATTCGGACTCCAGTCCCCTTTTCCACCTCTGGCATGAGAACATTGT
 GCAGATGAGCTGACCCCTGAGCAGTACCGAATGTGCATCCAATCCAAGCCATGAATGAGGCTCCCACT
 CTCACCTGGGAATGATGGTTTTCAGGGAGGAGATAGAGATGCATCTTCGCAACAGGCATACAGAACAAA
 CAGCGAGACTGCTGGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG215751 representing NM_030165
 Red=Cloning site Green=Tags(s)

MSRRGSILHSRTQWLLGLALLFSLVLFMYLLECAPQTDGNASLPGVVRENYGKEYYQALLQEQQEHHYQT
 RATSLKRQIAQLKQELQDMSEKMRALQERKKGANGVGYPGNREQAPSDLLEFLHSQIDRAEVSVAKLP
 SEYGVVPFESFTLMKVFQLEMGLTRHPEEKPVVKDKRDELVEVIEAGVEVINNPDEDDAQEDEEGLGEK
 LIFNENDFIEGYRTERDKGTQYELFFKKADLMEYRHVTLFRPFGPLMKVKNELIDITRSVINIIIVPLAE
 RTEAFSQFMQNFQVCIHQDKRIHLTVVYFGKEGLSKVKSILESVSSEDFHNYTLVSLDEEFNRRGRGLN
 VGARAWDKGEVLMFFCDVDIYFSAEFLNSCRLNAEPGKVFYVVFSLYNPAIVYANQDVPPPVEQQLVH
 KKDSGFWRDFGFGMTCQYQSDFLSVGGFDMVKGWGGEDVHLRKYLHGDILIVIRTPVPLFHLWHEKHC
 ADELTPEQYRMCIQSKAMNEASHSHLGMVFREIEIEMHLRKQAYRTNSETAG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:


ACCN: NM_030165

ORF Size: 1626 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_030165.3](#), [NP_084441.3](#)

RefSeq Size: 3676 bp

RefSeq ORF: 1629 bp

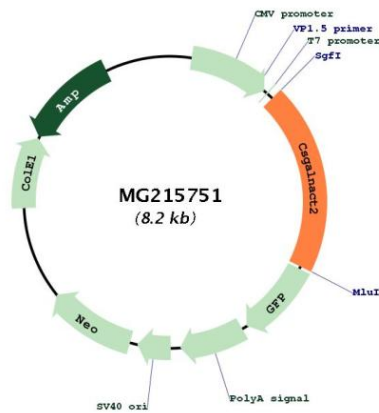
Locus ID: 78752

UniProt ID: [Q8CIF4](#)

Cytogenetics: 6 F1

Gene Summary: 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 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG215751