

Product datasheet for **SC113416**

CSGALNACT2 (NM_018590) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CSGALNACT2 (NM_018590) Human Untagged Clone
Tag:	Tag Free
Symbol:	CSGALNACT2
Synonyms:	beta4GalNAcT; ChGn-2; CHGN2; GALNACT-2; GALNACT2; PRO0082
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_018590, the custom clone sequence may differ by one or more nucleotides

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ATGCCTAGAAGAGGACTGATTCTTCACACCCGGACCCACTGGTTGCTGTTGGCCTTGCTTTGCTCTGCA
GTTTGGTATTATTTATGTACCTCCTGGAATGTGCCCCCACTGATGGAATGCATCTCTTCTGGTGT
TGTTGGGAAAAATTATGGTAAAGAGTATTATCAAGCCCTCTACAGGAACAAGAAGAACATTATCAGACC
AGGGCAACCAGTCTGAAACGCCAAATTGCCAACTAAAACAAGAATTACAAGAAATGAGTGAGAAGATGC
GGTCACTGCAAGAAGAAGGAATGTAGGGGCTAATGGCATAGGCTATCAGAGCAACAAGAGCAAGCACC
TAGTGATCTTTTAGAGTTTCTTCATTCCCAAATTGACAAAGCTGAAGTTAGCATAGGGGCCAAACTACCC
AGTGAGTATGGGGTCATTCCCTTTGAAAGTTTTACCTTAATGAAAGTATTTCAATTGGAAATGGGTCTCA
CTCGCCATCTGAAAGAAAAGCCAGTTAGAAAAGACAAACGAGATGAATTGGTGGAAAGTTATTGAAGCGG
CTTGGAGGTCATTAATAATCCTGATGAAGATGATGAACAAGAAGATGAGGAGGGTCCCCTGGAGAGAAA
CTGATATTTAATGAAAATGACTTCGTAGAAGGTTATTATCGCACTGAGAGAGATAAGGGCACACAGTATG
AACTCTTTTTTAAGAAAGCAGACCTTACGGAATATAGACATGTGACCCTCTTCCGCCCTTTTGGACCTCT
CATGAAAGTGAAGAGTGAGATGATTGACATCACTAGATCAATTATTAATATCATTGTGCCACTTGCTGAA
AGAAGTGAAGCATTGTACAATTTATGCAGAACTTCAGGGATGTTTGTATTTCATCAAGACAAGAAGATTC
ATCTCACAGTGGTGTATTTTGGTAAAGAAGGACTGTCTAAAGTCAAGTCTATCCTAGAATCTGTCACCAG
TGAGTCTAATTTTACAATTACACCTTGGTCTCATTGAATGAAGAATTTAATCGTGGACGAGGACTAAAT
GTGGGTGCCCGAGCTTGGGACAAGGGAGAGGTCTTGATGTTTTTCTGTGATGTTGATATCTATTTCTCAG
CCGAATTCCTTAACAGCTGCCGGTAAATGCTGAGCCAGGTAAGAAGGTGTTTTACCCTGTGGTGTTCAG
TCTTTACAATCCTGCCATTGTTTATGCCAACAGGAAGTCCACCACCTGTGGAGCAGCAGCTGGTTCAC
AAAAAGGATTCTGGCTTTTGGCGAGATTTGGCTTTGGAATGACTTGTGAGTATCGTTTTCAGATTTCTGTT
CCATTGGTGGATTTGACATGGAAGTGAAGGTTGGGGTGGAGAAGATGTTTCATCTTTATCGAAAATACTT
ACATGGTGACCTCATTGTGATTCCGACTCCGGTCTTCCACCTCTGGCATGAAAAGCGCTGT
GCTGATGAGCTGACCCCGAGCAGTACCGCATGTGCATCCAGTCTAAAGCCATGAATGAGGCCTCTCACT
CCCACCTGGGAATGCTGGTCTTCAGGGAGGAAATAGAGACGCATCTTCATAAACAGGCATACAGGACAAA
CAGTGAAGCTGTTGGTTGA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_018590 unedited

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TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCTAAATGTGGGTG
CCCCGAGCTTTGGACAAGGGAGAGGTCTTGATGTTTTTCTGTGATGTTGATATCTATTTCT
CAGCCGAATTCCTTAACAGCTGCCGGTAAATGCTGAGCCAGGTAAGAAGGTGTTTTACC
CTGTGGTGTTCAGTCTTTACAATCCTGCCATTGTTTATGCCAACAGGAAGTCCACCAC
CTGTGGAGCAGCAGCTGGTTCACAAAAAGGATTCTGGCTTTTGGCGAGATTTTGGCTTTG
GAATGACTTGTGAGTATCGTTTTCAGATTTTCTGACCATTGGTGGATTTGACATGGAAGTGA
AAGGTTGGGGTGGAGAAGATGTTTCATCTTTATCGAAAATACTTACATGGTGACCTCATTG
TGATTCGACTCCGGTCTTCCACCTCTGGCATGAAAAGCGCTGTGCTGATG
AGCTGACCCCGAGCAGTACCGCATGTGCATCCAGTCTAAAGCCATGAATGAGGCCTCTC
ACTCCCACCTGGGAATGCTGGTCTTCAGGGAGGAAATAGAGACGCATCTTCATAAACAGG
CATACAGGACAAACAGTGAAGCTGTTGGTTGAAATCATAATTAATGCGTTACTGTATGAA
CCACAAAAAGCAGCACTATTTATTTAGCCTTACTTCTACTTCCAGATGCAGTGCCTCTTTG
GAGAAGAATGTTTATTTTTCATGTTCTTTCTGACATTACTTTCAGCAATTCACACTTGATGT
GAGAAGAAAAACAATGTTTCACACAAATCTCTGTTTGTGAGATACTGACTATGGAATATT
GACANATGAATCTCTATTGCCANAAAGTGTGGAC
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_018590 unedited GGATTCTATGNACGCGGCCGCATTCTANGATCNGTTTTTTTTTTTTTTTTTTGGTAATAA AATACTTTATTGGTACCATTTAATAAAATGTCAAAAACGTATAGCATTTCATTGCTTAGC TTCCATCTTTAACTTAAAGCTAGTTAAAAACAACAGGAACAAAAGTAAACTCATTGAT TCTCTCAAAAAACAAGCTGTAACCTTTGCAAATAATTAAGTTCTCTCACTTTAAAT ATCGTAATTCACCTGGTCTTCATAATAAATAATTATAATAATATATAAAAGGAGACAGTGG CCTGAATTTTTTGCAGAGAACATTTACACATCTTTAAAAAATCACTAAACTACCAC AACTTAAAACCTTGAAGAATAATTAGGTAAGAGTTATTGTAATTTGAATTAATATAGCA CCTAGAAAATTTGAAATTTGTAATATTTTCAGATGATATGATTTACTGAGAAAAAGAGTAAT GATTTTTCTTCAGTGAATTTTCAGGGGTTTTCAACATAGGTCTCTTTTAAAAGGGTTAAA AAATTTATGCATACTAGGAATTGACCTGATGGTAACAGATCCATGTGTGACAAAATATGT AGTGCAGTCTATCTGAATATAATTTCTTTTCACTTTGGCTCATTAAATTTATACCTCAA TTAAAACATTCTATATGCCAGTGACATATTTCTCTAAAACATTCCGTATTTTCAGATTTCC ATTCAGACTATCTCCCCTCCTCCCTTTTCTCAAATCAGAGTGATCCTGTGGCATACCAT TTGCTTTTTTCTCTCCACAATGAACTCTTTTCCACCTCAAAGTTTTTTTAGTATGCAA ATCCAAATGTGGCCTTTTTTAAATTTTTAGCAAAAAGGCATAGTAAATACCTTTGGGTT CCTGGCCCAATTAGAAAATTGAAGGCAAAACCACCAAACCTGCTTG
Restriction Sites:	NotI-NotI
ACCN:	NM_018590
Insert Size:	2430 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none"> 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_018590.2 , NP_061060.2
RefSeq Size:	3782 bp
RefSeq ORF:	543 bp
Locus ID:	55454
UniProt ID:	Q8N6G5
Cytogenetics:	10q11.21
Protein Families:	Transmembrane
Protein Pathways:	Chondroitin sulfate biosynthesis, Metabolic pathways

Gene Summary:

This gene encodes a member of the chondroitin N-acetylgalactosaminyltransferase family. The encoded protein is involved in elongation during chondroitin sulfate synthesis. Alternative splicing of this gene results in multiple transcript variants. Two related pseudogenes have been identified on chromosome X. [provided by RefSeq, Feb 2016]
Transcript Variant: This variant (1) encodes the longest isoform (1).