

Product datasheet for **RC207070**

CSGALNACT2 (NM_018590) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CSGALNACT2 (NM_018590) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CSGALNACT2
Synonyms:	beta4GalNAcT; ChGn-2; CHGN2; GALNACT-2; GALNACT2; PRO0082
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC207070 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCTAGAAGAGGACTGATTCTTCACACCCGGACCCACTGGTTGCTGTTGGCCTTGCTTTGCTCTGCA
 GTTTGGTATTATTATGTACCTCCTGGAATGTGCCCCAGACTGATGGAATGCATCTCTTCTGGTGT
 TGTTGGGAAAATTATGGTAAAGAGTATTATCAAGCCCTCTACAGGAACAAGAAGAACATTATCAGACC
 AGGGCAACCAGTCTGAAACGCCAAATTGCCAACTAAAACAAGAATTACAAGAAATGAGTGAGAAGATGC
 GGTCACTGCAAGAAAAGGAATGTAGGGGCTAATGGCATAGGCTATCAGAGCAACAAAGAGCAAGCACC
 TAGTGATCTTTAGAGTTTCTTCATTCCCAAATTGACAAAGCTGAAGTTAGCATAGGGGCCAACTACCC
 AGTGAGTATGGGGTCATTCCCTTTGAAAGTTTACCTTAATGAAAGTATTTCAATGGAAATGGGTCTCA
 CTCGCCATCCTGAAGAAAAGCCAGTTAGAAAAGACAAACGAGATGAATGGTGGAAATTTGAAGCGGG
 CTTGGAGGTCATTAATAATCCTGATGAAGATGATGAACAAGAAGATGAGGAGGGTCCCCTGGAGAGAAA
 CTGATATTTAATGAAAATGACTTCGTAGAAAGTTATTATCGCACTGAGAGAGATAAGGGCACACAGTATG
 AACTCTTTTTAAGAAAAGCAGACCTTACGGAATATAGACATGTGACCCTCTTCCGCCCTTTGGACCTCT
 CATGAAAGTGAAGAGTGAGATGATTGACATCACTAGATCAATTATTAATATCATTGTGCCACTTGCTGAA
 AGAACTGAAGCATTTGTACAATTTATGCAGAATTCAGGGATGTTTGTATTCATCAAGACAAGAAGATTC
 ATCTCACAGTGGTGTATTTTGGTAAAGAAGGACTGTCTAAAGTCAAGTCTATCCTAGAATCTGTCACCAG
 TGAGTCTAATTTTACAATTACACCTTGGTCTCATTGAATGAAGAATTTAATCGTGGACGAGGACTAAAT
 GTGGGTGCCGAGCTTGGGACAAGGGAGAGGTCTTGATGTTTTTCTGTGATGTTGATATCTATTTCTCAG
 CCGAATTCCTTAAACAGCTGCCGTTAAATGCTGAGCCAGTAAGAAGGTGTTTTACCCTGTGGTGTTCAG
 TCTTTACAATCCTGCCATTGTTTATGCCAACAGGAAGTCCACCACCTGTGGAGCAGCAGCTGGTTCAC
 AAAAAGGATTCTGGCTTTTGGCGAGATTTTGGCTTTGGAATGACTTGTCAGTATCGTTTCAGATTTCTGA
 CCATTGGTGGATTTGACATGGAAGTGAAGGTTGGGGTGGAGAAGATGTTTCATCTTTATCGAAAATACTT
 ACATGGTGACCTCATTGTGATTCGGACTCCGGTTCCTGGTCTTTTCCACCTCTGGCATGAAAAGCGCTGT
 GCTGATGAGCTGACCCCGAGCAGTACCGCATGTGCATCCAGTCTAAAGCCATGAATGAGGCCTCTCACT
 CCCACCTGGGAATGCTGGTCTTCAGGGAGGAAATAGAGACGCATCTTCATAAACAGGCATACAGGACAAA
 CAGTGAAGCTGTTGGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC207070 protein sequence
 Red=Cloning site Green=Tags(s)

MRRRLILHTRTHWLLLGLALLCSLVLFMYLLECAPQTDGNASLPGVVGENYKKEYYQALLQEQQEHHYQT
 RATSLKRQIAQLKQELQEMSEKMRSLQERRNVGANGIGYQSNKEQAPSDLLEFLHSQIDKAEVSIKALP
 SEYGVIPFESFTLMKVFQLEMGLTRHPEEKPVKDKRDELVEVIEAGLEVINNPDEDDEQEDEEGLGEK
 LIFNENDFVEGYRTERDKGTQYELFFKKADLTEYRHVTLFRPFGLMKVKSEMIDITRSIINIIVPLAE
 RTEAFVQFMQNRDVCIHQDKKIHLTVVYFGKEGLSKVKSILESVTSESNFHNYTLVSLNEEFNRRGLN
 VGARAWDKGEVLMFFCDVDIYFSAEFLNSCRLNAEPGKKVFPVVFSLYNPAIVYANQVPPPVEQQLVH
 KKDSGFWRDFGFGMTCQYRSDLTIGGFDMEVKWGGEDVHLRYKYLHGDLIVIRTPVPGLFHLWHEKRC
 ADELTPQYRMCIQSKAMNEASHSHLGMVLFREEIETHLHKQAYRTNSEAVG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6518_b09.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_018590

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.

RefSeq: [NM_018590.5](#)

RefSeq Size: 3782 bp

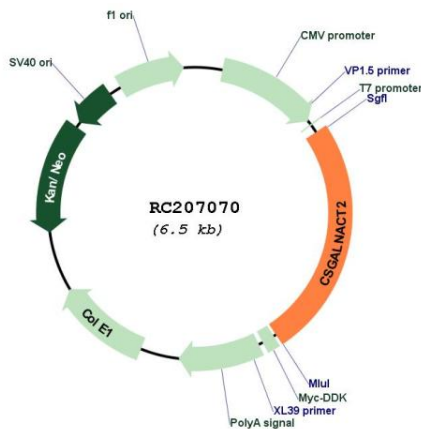
RefSeq ORF: 1629 bp

Locus ID: 55454

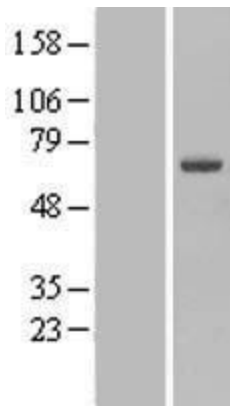
UniProt ID: [Q8N6G5](#)

Cytogenetics:	10q11.21
Protein Families:	Transmembrane
Protein Pathways:	Chondroitin sulfate biosynthesis, Metabolic pathways
MW:	62.6 kDa
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]

Product images:



Circular map for RC207070



Western blot validation of overexpression lysate (Cat# [LY412995]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207070 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).