

Product datasheet for **RG207070**

CSGALNACT2 (NM_018590) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | CSGALNACT2 (NM_018590) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | CSGALNACT2 |
| Synonyms: | beta4GalNAcT; ChGn-2; CHGN2; GALNACT-2; GALNACT2; PRO0082 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>RG207070 representing NM_018590
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCTAGAAGAGGACTGATTCTTCACACCCGGACCCACTGGTTGCTGTTGGCCTTGCTTTGCTCTGCA
 GTTTGGTATTATTATGTACCTCCTGGAATGTGCCCCCAAGACTGATGGAATGCATCTCTTCTGGTGT
 TGTTGGGAAAATTATGGTAAAGAGTATTATCAAGCCCTCTACAGGAACAAGAAGAACATTATCAGACC
 AGGGCAACCAGTCTGAAACGCCAAATTGCCCACTAAAACAAGAATTACAAGAAATGAGTGAGAAGATGC
 GGTCACTGCAAGAAAAGGAATGTAGGGGCTAATGGCATAGGCTATCAGAGCAACAAAGAGCAAGCACC
 TAGTGATCTTTAGAGTTTCTTCATTCCCAAATTGACAAAGCTGAAGTTAGCATAGGGGCCAACTACCC
 AGTGAGTATGGGGTCATTCCCTTTGAAAGTTTTACCTTAATGAAAGTATTTCAATGGAAATGGGTCTCA
 CTCGCCATCCTGAAGAAAAGCCAGTTAGAAAAGACAAACGAGATGAATTGGTGGAAAGTTATTGAAGCGGG
 CTTGGAGGTCATTAATAATCCTGATGAAGATGATGAACAAGAAGATGAGGAGGGTCCCTTGGAGAGAAA
 CTGATATTTAATGAAAATGACTTCGTAGAAAGGTTATTATCGCACTGAGAGAGATAAGGGCACACAGTATG
 AACTCTTTTTTAAGAAAGCAGACCTTACGGAATATAGACATGTGACCCTCTTCCGCCCTTTTGGACCTCT
 CATGAAAGTGAAGAGTGAGATGATTGACATCACTAGATCAATTATTAATATCATTGTGCCACTTGCTGAA
 AGAACTGAAGCATTTGTACAATTTATGCAGAATTCAGGGATGTTTGTATTCATCAAGACAAGAAGATTC
 ATCTCACAGTGGTGTATTTTGGTAAAGAAGGACTGTCTAAAGTCAAGTCTATCCTAGAATCTGTCACCAG
 TGAGTCTAATTTTACAATTACACCTTGGTCTCATTGAATGAAGAATTTAATCGTGGACGAGGACTAAAT
 GTGGGTGCCGAGCTTGGGACAAGGGAGAGGTCTTGATGTTTTTCTGTGATGTTGATATCTATTTCTCAG
 CGGAATTCCTTAACAGCTGCCGTTAAATGCTGAGCCAGTAAGAAGGTGTTTTACCCTGTGGTTCAG
 TCTTTACAATCCTGCCATTGTTTATGCCAACAGGAAGTCCACACCTGTGGAGCAGCAGCTGGTTCAC
 AAAAAGGATTCTGGCTTTTGGCGAGATTTTGGCTTTGGAATGACTTGTCAGTATCGTTTCAGATTTCTGA
 CCATTGGTGGATTTGACATGGAAGTGAAGGTTGGGGTGGAGAAGATGTTTCATCTTTATCGAAAATACTT
 ACATGGTGACCTCATTGTGATTCGGACTCCGGTTCCTGGTCTTTTCCACCTCTGGCATGAAAAGCGCTGT
 GCTGATGAGCTGACCCCGAGCAGTACCGCATGTGCATCCAGTCTAAAGCCATGAATGAGGCCTCTCACT
 CCCACCTGGGAATGCTGGTCTTCAGGGAGGAAATAGAGACGCATCTTCATAAACAGGCATACAGGACAAA
 CAGTGAAGCTGTTGGT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG207070 representing NM_018590
 Red=Cloning site Green=Tags(s)

MRRRGLILHTRTHWLLLGLALLCSLVLFMYLLECAPQTDGNASLPGVVGENYKKEYYQALLQEQQEHHYQT
 RATSLKRQIAQLKQELQEMSEKMRSLQERRNVGANGIGYQSNKEQAPSDLLEFLHSQIDKAEVSIQAKLP
 SEYGVIPFESFTLMKVFQLEMGLTRHPEEKPVKDKRDELVEVIEAGLEVINNPDEDDEQEDEEGPLGEK
 LIFNENDFVEGYRTERDKGTQYELFFKKADLTEYRHVTLFRPFGPLMKVKSEMIDITRSIINIIVPLAE
 RTEAFVQFMQNFQDVCIHQDKKIHLTVVYFGKEGLSKVKSIKSVTSSESNFHNYTLVSLNEEFNRGRGLN
 VGARAWDKGEVLMFFCDVDIYFSAEFLNSCRLNAEPGKKVFPVVFSLYNPAIVYANQEVPPPVEQQLVH
 KKDSGFWRDFGFGMTCQYRSDFLTIGGFDMEVKWGGEDVHLRYKYLHGDIVIRTPVPLFHLWHEKRC
 ADELTPQYRMCIQSKAMNEASHSHLGMVLFREEIETHLHKQAYRTNSEAVG

TRTRPLE – GFP Tag – V

Restriction Sites:

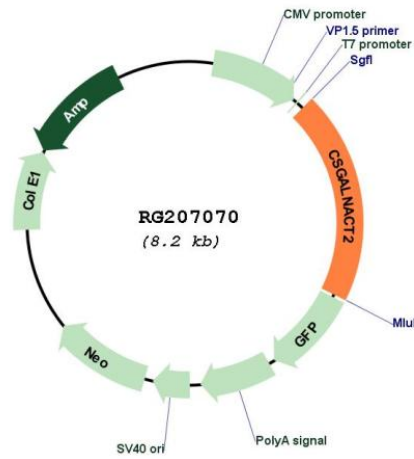
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



| | |
|-------------------------------|---|
| 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: | <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_018590.5 |
| RefSeq Size: | 3745 bp |
| RefSeq ORF: | 1629 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] |