

Product datasheet for **RG214560**

C2GNT3 (GCNT4) (NM_016591) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---------------------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | C2GNT3 (GCNT4) (NM_016591) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | GCNT4 |
| Synonyms: | C2GNT3 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>RG214560 representing NM_016591
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGATATTCAAATGTTATTTTAAACATACCCTACAGCAGAAAGTTTTATCCTGTTTTAACCTAT
 GGCTGCTCTCTTTGTTAAAGCTTCTAAATGTGAGACGACTCTTTCCGCAAAAAGACATTTACTTGGTTGA
 GACTCCCTAAGTACCTCGCCTTTTGAAGAAACAGATACACTCATGTTAAGGATGAAGTCAAGTATGAA
 GTTAACTGTTCCGGTATCTATGAACAGGAGCCTTTGGAAATGGAAAGAGTCTGGAAATAAGAAGAAGGG
 ACATCATTGACTTGGAGGATGATGATGTTGTGGCAATGACCAGTGATTGTGACATTTATCAGACTCTAAG
 AGGTTATGCTCAAAGCTTGTCTCAAAGGAGGAGAAAAGCTTCCAATAGCCTATTCTTTGGTTGCCAC
 AAAGATGCAATTATGGTTGAAAGCTTATCCATGCTATATAACAACAGCACAAATTTACTGCATCCATT
 ATGATCGTAAGGCACCTGATACCTCAAAGTGGCATGAACAATTTAGCTAAGTGCTTCTCCAATATTTT
 CATTGCTTCAAATTAGAGGCTGTGGAATATGCCACATTTCCAGACTCCAGGCTGATTTAAATTGCTTG
 TCGGACCTTCTGAAGTCTCAATCCAGTGGAAATATGTTATCAACTTGTGTGGGCAAGATTTTCCCCTGA
 AGTCAAATTTTGAATTGGTGTGTCAGAGTTGAAAAACTCAATGGAGCAAATATGTTGGAGACGGTGAACCC
 CCCAAACAGTAAATTGGAAAGATTCACTTACCATCATGAAGTACGAGGTTGCCTTATGAATATGTGAAG
 CTACCAATAAGGACAAACATCTCCAAGGAAGCACCCCCCATAACATTAGATATTTGTTGGCAGTGCTT
 ATTTTGTTTTAAAGTCAAGCATTGTTAAATATATTTTCAACAACCCATCGTTCAAGACTTTTTTGCCTG
 GTCTAAAGACACATACTCTCTGATGAGCACTTTGGGCTACCTTGATTCGGGTTCCAGGAATACCTGGG
 GAGATTTCCAGATCAGCCAGGATGTGTCTGATCTGCAGAGTAAGACTCGCCTTGTCAAGTGAATTACT
 ATGAAGGCTTTTCTATCCAGTTGTACTGGATCTCACCTCGAAGCGTGTGATTTATGGAGCTGCAGA
 ATTAAGGTGGCTTATCAAAGATGGACATTGGTTTGTCTAATAAATTTGATTCTAAGGTGGACCTATCTTG
 ATTAATGCTTGGCAGAAAAGCTTGAAGAACAGCAGAGAGACTGGATCACTTTGCCCTCAGAAAAGTTAT
 TTATGGATAGAAATCTCACTACCACATCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG214560 representing NM_016591
 Red=Cloning site Green=Tags(s)

MKIFKCYFKHTLQQKVFILFLTLWLLSLLKLLNVRRLFPQKDIYLVESLSTSPFVRNRYTHVKDEVRYE
 VNCSGIYEQEPLEIGKSLEIRRRDIIDLEDDVVAMTSDCDIYQTLRGYAQKLVSKEEKSFPIAYSLVVH
 KDAIMVERLIHAIYNQHNIYCIHYDRKAPDTFKVAMNNLAKCFSNIFIASKLEAVEYAHISRLQADLNCL
 SDLLKSSIQWKYVINLCGQDFPLKSNFELVSELKKNLNGANMLETVKPPNSKLERFTYHHELRRVPYEVK
 LPIRTNISKEAPPHNIQIFVGSAYFVLSQAFVKYIFNNSIVQDFFAWSKDTYSPDEHFWATLIRVPGIPG
 EISRSAQDVSDLQSKTRLVKWNYEGFFYPSCGTGSHLRSVCIYGAAELRWLIKDGHWFAFKFDKVDPIIL
 IKCLAEKLEEQQRDWITLPSEKLFMDRNLTTTS

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

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|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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: | <u>NM_016591.2</u> , <u>NP_057675.1</u> |
| RefSeq Size: | 3435 bp |
| RefSeq ORF: | 1362 bp |
| Locus ID: | 51301 |
| Cytogenetics: | 5q13.3 |
| Protein Families: | Transmembrane |
| Protein Pathways: | Metabolic pathways, O-Glycan biosynthesis |
| Gene Summary: | Glycosyltransferase that mediates core 2 O-glycan branching, an important step in mucin-type biosynthesis. Does not have core 4 O-glycan or I-branching enzyme activity. [UniProtKB/Swiss-Prot Function] |