

Product datasheet for **SC104263**

GANC (AK074037) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | GANC (AK074037) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | GANC |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL6</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >NCBI ORF sequence for AK074037, the custom clone sequence may differ by one or more nucleotides |

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AGAAACGCTAGTTGGGCCTGAAAAATCCAGGAGCAAGAGTCAAGATTTGCTACTCCATGAGAATCTGG
AGGGGACTCCCTCCAGAACTTGACGATGAAGTACTGGTTGTAATTTAGAAAGACACCCAATCGGCT
TTTTTAAAGATCGCCCAGGGCCCTTGCTCTGAGAGCTGGGAGCTGGTCGGAGTGACAGAGAAGCCATGG
AAGCAGCAGTGAAGAGGAAATAAGTGTGAAGATGAAGCTGTAGATAAAAAATTTTCAGAGACTGTAA
CAAGATCGCATTTACAGGCGTCAGAAACAGTGGCTTTCCAAGAAGTCCACCTATCGGGCATTATTGGAT
TCAGTACAACAGATGAAGACAGCACCAGGTTCCAAATCATCAATGAAGCAAGTAAGGTTCTCTCTCTGG
CTGAAATTTATGGTATAGAAGGAAACATTTTCAGGCTTAAAATTAACGAAGAGACTCCTCTAAAACCCAG
ATTTGAAGTTCGGATGTCCTCACAAGCAAGCCAAGCACTGTAAGGCTGATTTTCATGCTCTGGGGACACA
GGCAGTCTGATATTGGCAGATGGAAAAGGAGACCTGAAGTGCCATATCACAGCAAACCCATTCAAGGTAG
ACTTGGTGTCTGAAGAAGAGGTTGTGATTAGCATAAAATCCCTGGGCCAATTATACTTTGAGCATCTACA
GATTCCTCACAAACAAAGAGCTGCTAAAGAAAATGAGGAGGAGACATCAGTGGACACCTCTCAGGAAAAT
CAAGAAGATCTGGGCCTGTGGGAAGAGAAAATTTGGAAAATTTGTGGATATCAAAGCTAATGGCCCTTCTT
CTATTGGTTTGGATTTCTCCTTGCATGGATTTGAGCATCTTTATGGGATCCCACAACATGCAGAATCACA
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GCAGGATGTAAGCAGTGGATGCAGGGTTTGTGAGCATGACATTCCTTATGATGCCATGTGGCTGGAC
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AAGAGCTGCTCAGGAGCAAAAAGCGTAAGCTTGTGGTTCATCAGTATCCCCACATCAAGATTGATCCTGA
CTACTCAGTATATGTGAAGGCCAAAGATCAGGGCTTCTTTGTGAAGAATCAGGAAGGGGAAGACTTTGAA
GGGGTGTGTGGCCAGGCTCTCCTCTTACCTGGATTTACCAATCCCAAGGTGAGAGAGTGGTATTCAA
GTCTTTTTGCTTTCCCTGTTTATCAGGGATCTACGGACATCCTCTTCTTTGGAATGACATGAATGAGCC
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TTCTGTCTTTAGAGGGCCAGAGCAAACCATGCAGAAGAATGCCATTTCATCATGGCAATTGGGAGCACAGA
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CATTATTCCAATACCTCCACCAGAAGCAATTTTTGCACAGGAAGTTTTCTATTCTGTTCCAGTGTCTGA
TCAATAGTTTTGTGACCAGAGGGTCTTATCCAGCAAGTGTGTGGTGGAGAAGATCTTGGTCTTAGG
CTTCAGGAAGGAGCCATCTTCTGTGACTACCCACTCATCTGATGGTAAAGATCAGCCTGTGGCTTTTACG
TATTGTGCCAAAACATCCATCCTGAGCCTGGAGAGCTCTCACTCAACATTGCCACTGACTGGGAGGTCC
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TCACCTTTTTTGAGATTTTTGCTGCAATCTGTTGCCCTTCCCTGAATCAAATAATCTTTCATTCTGCAC
CATTATACTAATGAACAATAGATTTTCATGTTTCAAATTTTCCAGATTTTACATGTTAAGATGTAATAACA
TATTCCTGTATCAAACATCTCCTTTTCCCTGATACATAGCCCTGAGACATTTATAGCGTTCCAGGAGT
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AATCAAAGTAAGTAATATTTCAATCCAATATTTTTAAAAATCAGAATTAATGCAAAAAAACCATGATGA
ACAAAATATTAATAATTTAAATAAAGACAGGATTAGTATTACTGAGTTTTCTTTTGTCCCAGGCTCTAA
TATGGCTTGGCATGGGGCAGAACATTACAACATACCAGTCGTGTATGGTGCCCAAGGCTCCACAGACCT
CAGTGGCTCCCTGCTGCCTGCCACAGCATCTGTTTTAGCAGCCTCGACTCCTCAGCACTCCTCAGCACAC
ACCTCTTCTTATCAGGCTTCTCCACTTAGCAACTTGCTAACGGCCACCTCTGTGCCCTTCTGATCCCTGG
GCGCAATATCCTCCTGCCCTTACCATCCTCCAGGCCAACTTAAATCCCCTTTCCATGAAGCCTAA
CTGCGTGAACACCCCTACCCCATACCCATTAGCAGTGATTTTGGCCTTCCCCGTAATGCTGTCCCCTT
ATAACTGTGCTCTACTTAGCATTCTCAGGGATCATACCTTAATGTTTTAGTATGCTGCGTTCTCCTAC
TAGATTGATGTCCCTCAAGAGCATGTTCTGTTCTCTTCTGTCTGACAGAGCACTATTATACCTGACTT
TCAGTAACTGTTAGCTGTGATTAGTTAGCTGGTGGATTTAATTGATTAATAAATAACGATTGAATGT

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| 5' Read Nucleotide Sequence: | <p>>OriGene 5' read for AK074037 unedited</p> <pre> CCCAATCCCCCGCCCGTTGACGCAATGGGCGGTAGGCGGTACGGTGGNGAGGTCTATA TAAGCAGAGCTCATTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGG CCGCGAATTCGGCACGAGGGTCACTCTGTTGGAACCTGGACTCATTGCGTACACGCCCTC ACCGCCGCCAGTTTCGGTTCCTAACAAAAGCAGTTCCTCATCAGCCACCCATAATCAA GACAAATTTGCCAAATAAATCATTGTAGAAACGCTAGTTTGGGCCTGAAAAATCCAGGA GCAAGAGTCAAGAGTTGCTACTCCATGAGAATCTGGAGGGGACTCCCTTCCAGAAACTT GACGATGAAGTACTGGTTGTAATTTTAGAAAGACACCCAATCGGCTTTTTTAAAAGAGCG CCCAGGGCCCTTGTCTGAGAGCTGGGAGCTGGTGGAGTGACAGAGAAGCCATGGAAGC AGCAGTAAAAGAGGAAATAAGTGTGAAGATGAAGCTGTAGATAAAAAACATTTTCAGAGA CTGTAACAAGATCGCATTTCACAGGCGTCAGAAACAGTGGCTTTCAGAAAGTCCACCTA TCGGGCATTATTGGATTCAGTCAACAACAGATGAAGACAGCACCAGGTTCCAAATCATCAA TGAAGCTAGTAAGGTTCTCTCCTGGCTGAAAGTTATGGTATAGAAGGAAACATTTTCAG GCTTAAAATTAACGAAGAGACTCCTCTAAAACCCAGAGTTGACAGTCTGGATGCCTCA CAAGCTAGCCAAGCACTGTAGGGCTGATTTTCATGCTCNTGGGACACAGGCAGTCTGATA TTGGCAGATGAAAAGGAGACCTGAAAGTCCATATCACAGCAAACCATTCANGTAGACTT GGTGTCTGAGAACGAGTTGTGATAGCATACATTCTGGCCATTT </pre> |
| 3' Read Nucleotide Sequence: | <p>>OriGene 3' read for AK074037 unedited</p> <pre> TTTCCAGAAATACTATGNACCGCGCCGCTATCTAGATCGAGTTTTTTTTTTTTTTTTTTA CATTCAATCGTAATTTTTTAATCAATTAATCCACCAGCTAACTAATCACAGCTAACAGT TACTGAAAGTCAGGTATAATAGTGCTCTGTCAGACAGAAGAGAAAACAGAACATGCTCTTG AGGGACATACAATCTAGTAGGAGAACGCAGACATACTGAAAACATTAAGGTATGATCCCT GAGAATGCTAAGTAGAGCACAGTTATAAGTGGGACAGCATTACGGGGAAGGGCAAATCA CTGCTAATGGGTATGGGGTAGGGGTGTTACGCAGTTAGGCTTCATGGGAAAGTGGGAT TTAAGTTGGCCTGGAAGGATGGTAAGGGCAGGAGGATATTGGCGCCAGGGATCAGAAG GCACAGAGGTGGCCGTTAGCAAGTTGCTAAGTGGAGGAAGCCTGATAAGAAAAGGTGTGT GCTGAGGAGTGTGAAGAGTCCAGGCTGCTAAAACAGATGCTGTGGCAGGCAGCAGGGAG CCACTGAAGTCTGTGGAGCCTTGGGCACCATGACACGACTGGGATGTTGGTATGTCTGC CCCATGCCAAGCCCTATTAGAACCTGGGACAAAAGGGAAACTCACGTATACTAATCCTGG CTTTATTTTAAATTTTTAAAATTTGGTTCTCAAGGGTTTTTTTGCATTAATCCTGATTT TAAAAAATTGGATTGAAAAATTAACCTTGGATACCGGGATTTTTTTGGGCAACCC CTTAATTTTTGTGCCCAAGGCCAGGGTCTCCCTTGGCCTATCCCTAGCCCCAGTCATG GATTTTTACTTTTGAAGTCCCCTGGGGGG </pre> |
| Restriction Sites: | NotI-NotI |
| ACCN: | AK074037 |
| Insert Size: | 4700 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). |

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| 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: | AK074037.1 , BAB84863.2 |
| RefSeq Size: | 4477 bp |
| RefSeq ORF: | 2745 bp |
| Locus ID: | 2595 |
| Cytogenetics: | 15q15.1 |
| Domains: | Glyco_hydro_31 |
| Protein Families: | Druggable Genome |
| Protein Pathways: | Galactose metabolism, Metabolic pathways, Starch and sucrose metabolism |
| Gene Summary: | Glycosyl hydrolase enzymes hydrolyse the glycosidic bond between two or more carbohydrates, or between a carbohydrate and a non-carbohydrate moiety. This gene encodes a member of glycosyl hydrolases family 31. This enzyme hydrolyses terminal, non-reducing 1,4-linked alpha-D-glucose residues and releases alpha-D-glucose. This is a key enzyme in glycogen metabolism and its gene localizes to a chromosomal region (15q15) that is associated with susceptibility to diabetes. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Aug 2014] |