

Product datasheet for **SC121031**

GANC (NM_198141) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GANC (NM_198141) Human Untagged Clone
Tag:	Tag Free
Symbol:	GANC
Mammalian Cell Selection:	Neomycin
Vector:	<u>PCMV6-Neo</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene sequence for NM_198141 edited
 ATGGAAGCAGCAGTGAAGAGGAAATAAGTGTGAAGATGAAGCTGTAGATAAAAAACATT
 TTCAGAGACTGTAAACAAGATCGCATTTTACAGGCGTCAGAAAACAGTGGCTTTCCAAGAAG
 TCCACCTATCAGGCATTATTGGATTTCAGTCAACAACAGATGAAGACAGCACCAGGTTCCAA
 ATCATCAATGAAGCAAGTAAGGTTCCCTCCTGGCTGAAATTTATGGTATAGAAGGAAAC
 ATTTTCAGGCTTAAAATTAATGAAGAGACTCCTCTAAAACCCAGATTTGAAGTCCGGAT
 GTCCTCACAAGCAAGCCAAGCACTGTAAGGCTGATTTTCATGCTCTGGGGACACAGGCAGT
 CTGATATTGGCAGATGGAAAAGGAGACCTGAAGTGCCATATCACAGCAAACCCATTCAAG
 GTAGACTTGGTGTCTGAAGAAGAGGTTGTGATTAGCATAAATTCCTGGGCCAATTATAC
 TTTGAGCATCTACAGATTCTTCAAAAACAAAGAGCTGCTAAAGAAAATGAGGAGGAGACA
 TCAGTGGACACCTCTCAGGAAAATCAAGAAGATCTGGGCTGTGGGAAGAGAAAATTTGGA
 AAATTTGTGGATACAAAGCTAATGGCCCTTCTTCTATTGGTTTGGATTTCTCCTTGAT
 GGATTTGAGCATCTTTATGGGATCCCAACATGCAGAATCACACCAACTAAAAATACT
 GGTGATGGAGATGCTTACCGTCTTTATAACCTGGATGTCTATGGATACCAAATATATGAT
 AAAATGGGCATTTATGGTTCAGTACCTTATCTCCTGGCCACAACTGGGCAGAACTATA
 GGTATTTCTGGCTGAATGCCTCGGAAACACTGGTGGAGATCAATACAGAGCCTGCAGTA
 GAGTACACACTGACCCAGATGGGCCAGTTGCTGCTAAACAAAAGGTCAGATCTCGCACT
 CATGTGCACTGGATGTCAGAGAGTGGCATCATTGATGTTTTCTGCTGACAGGACCTACA
 CCTTCTGATGTCTTCAAACAGTACTCACACCTTACAGGCACACAAGCCATGCCCCCTCTT
 TTCTCTTTGGGATACCACCAGTCCCGCTGGAACATGAAGATGAGCAGGATGTAAAAGCA
 GTGGATGCAGGGTTTGTAGCATGACATTCTTATGATGCCATGTGGCTGGACATAGAG
 CACTGAGGGCAAGAGGTACTTACCTGGGACAAAAACAGATTTCCAAACCCCAAGAGG
 ATGCAAGAGCTGCTCAGGAGCAAAAAGCGTAAGCTTGTGGTCATCAGTATCCCCATC
 AAGATTGATCCTGACTACTCAGTATATGTGAAGGCCAAAGATCAGGGCTCTTTGTGAAG
 AATCAGGAAGGGGAAGACTTTGAAGGGTGTGTTGGCCAGGTCTCTCCTTTACCTGGAT
 TTCACCAATCCCAAGGTCAGAGAGTGGTATTCAAGTCTTTTTGCTTTCCCTGTTTATCAG
 GGATCTACGGACATCCTCTTCTTTGGAATGACATGAATGAGCCTTCTGTCTTTAGAGGG
 CCAGAGCAAACCATGCAGAAGAATGCCATTCATCATGGCAATTTGGGAGCACAGAGAGCTC
 CACAACATCTACGGTTTTATCATCAAATGGCTACTGCAGAAGGACTGATAAAACGATCT
 AAAGGGAAGGAGAGACCCTTTGTTCTTACACGTTCTTTCTTTGCTGGATCACAAAAGTAT
 GGTGCCGTGTGGACAGGCACAACACAGAGAATGGAGCAACTTGAATAATTTCTATCCCA
 ATGTTACTCACTCTCAGCATTACTGGGATCTTTTTGCGGAGCTGACATAGGCGGGTTC
 ATTTGGGAATCCAGAGACAGAGCTGCTAGTGCCTGGTACCAGGCTGGAGCCTACCAGCCC
 TTCTTCCGTGGCCATGCCACCATGAACACCAAGCGACGAGAGCCCTGGCTCTTTGGGGAG
 GAACACACCCGACTCATCCGAGAAGCCATCAGAGAGCGCTATGGCCTCCTGCCATATTGG
 TATTCTCTGTTCTACCATGCACACGTGGCTTCCCAACCTGTCATGAGGCCTCTGTGGGTA
 GAGTTCCTGTGAACTAAAGACTTTTGATATGGAAGATGAATACATGCTGGGGAGTGCA
 TTATTGGTTCATCCAGTCACAGAACCAAAAGCCACCACAGTTGATGTGTTTCTTCCAGGA
 TCAAATGAGGCTGGTATGACTATAAGACATTTGCTCATTGGGAAGGAGGTGTACTGTA
 AAGATCCAGTAGCCTTGGACACTATTCCAGTGTTCAGCGAGGTGGAAGTGTGATACCA
 ATAAAGACAACCTGTAGGAAAATCCACAGGCTGGATGACTGAATCCTCCTATGGACTCCGG
 GTTGCTCTAAGCACTAAGGGTCTTTCAGTGGGTGAGTTATATCTTGATGATGGCCATTCA
 TTCCAATACCTCCACCAGAAGCAATTTTTGCACAGGAAGTTTTTATTCTGTTCCAGTGTT
 CTGATCAATAGTTCTGCTGACCAGAGGGTCAATATCCAGCAAGTGTGTGGTGGAGAAG
 ATCTTGGTCTTAGGCTTCAGGAAGGAGCCATCTTCTGTGACTACCACTCATCTGATGGT
 AAAGATCAGCCTGTGGCTTTTACGTATTGTGCCAAAACATCCATCCTGAGCCTGGAGAAG
 CTCTCACTCAACATTGCCACTGACTGGGAGTCCGCATCATATGCAAAGAAGTCCCTT
 GGTGATGTGAGCAGGACCTGCCTGCCCTTTCAACCTTGGTGAAGGGC

Restriction Sites:

NotI-NotI

ACCN:

NM_198141

Insert Size:	2800 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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_198141.2</u> , <u>NP_937784.2</u>
RefSeq Size:	4603 bp
RefSeq ORF:	2745 bp
Locus ID:	2595
UniProt ID:	<u>Q8TET4</u>
Cytogenetics:	15q15.1
Protein Families:	Druggable Genome
Protein Pathways:	Galactose metabolism, Metabolic pathways, Starch and sucrose metabolism
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).</p>