

Product datasheet for **SC335051**

GANC (NM_001301410) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GANC (NM_001301410) Human Untagged Clone
Tag:	Tag Free
Symbol:	GANC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001301410, the custom clone sequence may differ by one or more nucleotides

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ATGGAAGCAGCAGTGAAAGAGGAAATAAGTCTTGAAGATGAAGCTGTAGATAAAAACATTTTCAGAGACT
GTAACAAGATCGCATTTTACAGGCGTCAGAAACAGTGGCTTTCCAAGAAGTCCACCTATCAGGCATTATT
GGATTCACTCACAAACAGATGAAGACAGCACCAGGTTCCAAATCATCAATGAAGCAAGTAAGGTCAGGTGC
CAGGACCAGAGCCCAACAACCTCTGGATGCCTTCAAAGGCAAGAAACCACAGTCCAGGAGGAGACACAGG
ATCTCAGCACAAAGACAGCACCTGGCTCAAAGGAAGCTGAGGAGCCTGATAAACAAGGACAAATTACCTG
GGACATCAGCAACGTAGCTCCCAAGACTGAGAACTTTGAGGACCTCTTGGAAACAACTCCATGCTCAGCC
TGTTTGCAAGGTTTCACCAGAGACAACACTTCAGCAGCTTCTCCGAGGATGCAGGAATATCTCTGAGCA
CCTCTGTGAAGTTACCCCTTGCCTCTTCACTAAGCCTAATGAAAATGAAGCTTTGCCCAACCAAGCCACC
TTCTCAGCAGATAAGGCACAACCTACCGCTTATTAGCCAGTACTGTGTCTGCAGAAATGGCCAGGAACAGG
CAGCTAATTTGGGAAGTGGCCAGACAATCAGAAGCACACCTGGACAGGCCAGTTGTCTTGGGGAACAGG
CCAGTGCCCGAGCGTGAGGTTGCCAGTATTCTTTGTAGAAAATCAGTGCTTGCAATAAACCAACTGGCTGC
AACTGTAGAAGGGACAATTAGTGTCTACAGCAATTTAATGAAGTATTAGACCATCCTCTGGATCCCGGG
AGGTCTTGA
  
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_001301410
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).


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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_001301410.1, NP_001288339.1</u>
RefSeq Size:	1559 bp
RefSeq ORF:	849 bp
Locus ID:	2595
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 (3) lacks several exons in the 3' coding region, and contains an alternate 3' structure, compared to variant 1. It encodes isoform 3 which is shorter, and has a distinct C-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>