

## Product datasheet for **RC237694**

### **GANC (NM\_001301409) Human Tagged ORF Clone**

#### Product data:

Product Type: Expression Plasmids  
 Product Name: GANC (NM\_001301409) Human Tagged ORF Clone  
 Tag: Myc-DDK  
 Symbol: GANC  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 Cell Selection: Neomycin  
 ORF Nucleotide Sequence: >RC237694 representing NM\_001301409  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGAAGCAGCAGTGAAAGAGGAAATAAGTCTTGAAGATGAAGCTGTAGATAAAAAACATTTTCAGAGACT  
 GTAACAAGATCGCATTTTACAGGCGTCAGAAACAGTGGCTTTCCAAGAAGTCCACCTATCAGGCATTATT  
 GGATTCAGTCACAACAGATGAAGACAGCACCAGGTTCCAATCATCAATGAAGCAAGTAAGTTCTCTC  
 CTGGCTGAAATTTATGGTATAGAAGGAAACATTTTCAGGCTTAAAATTAATGAAGAGACTCCTCTAAAC  
 CCAGATTTGAAGTTCGGATGTCCTCACAAAGCAAGCCAAGCACTGTAAGGCTGATTTTCATGCTCTGGGA  
 CACAGGCAGTCTGATATTGGCAGATGGAAGGAGACCTGAAGTGCCATATCACAGCAAACCCATTCAAG  
 GTAGACTTGGTGTCTGAAGAAGAGGTTGTGATTAGCATAAATTCCTGGGCCAATTATACTTTGAGCATC  
 TACAGATTCTTCAAAACAAAGAGCTGCTAAAGAAAATGAGGAGGAGACATCAGTGGACACCTCTCAGGA  
 AAATCAAGAAGATCTGGCCTGTGGGAAGAGAAATTTGGAAAATTTGTGGATATCAAAGCTAATGGCCCT  
 TCTTCTATTGGTTTGGATTTCTCCTTGCATGGATTTGAGCATCTTTATGGGATCCCACAACATGCAGAAT  
 CACACCAACTTAAAAATACTGGTGTGAGATGCTTACCGTCTTTATAACCTGGATGTCTATGGATACCA  
 AATATATGATAAAATGGGCATTTATGGTTCAGTACCTTATCTCCTGGCCCACAACTGGGCAGAACTATA  
 GGTATTTCTGGCTGAATGCCTCGGAAACACTGGTGGAGATCAATACAGAGCCTGCAGTAGAGTACACAC  
 TGACCCAGATGGGCCAGTTGCTGCTAAACAAAAGGTCAGATCTCGCACTCATGTGCACTGGATGTCAGA  
 GAGTGGCATATTGATGTTTTCTGCTGACAGGACCTACACCTTCTGATGTCTTCAAACAGTACTCACAC  
 CTTACAGACATTGGAGAAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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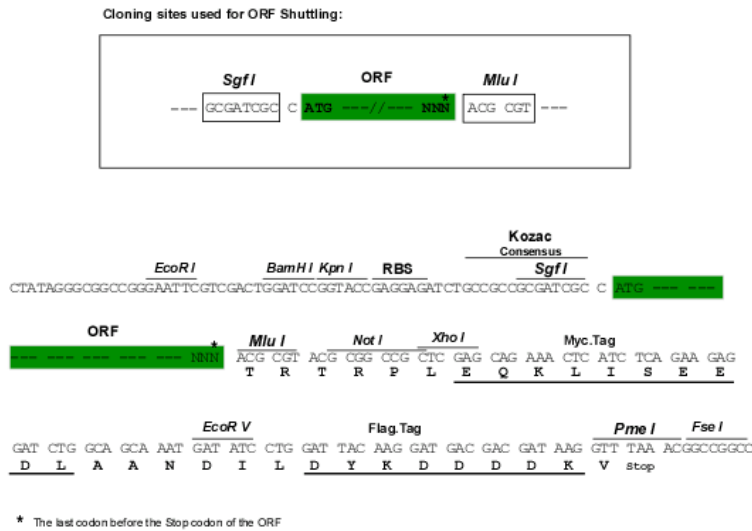
**Protein Sequence:** >RC237694 representing NM\_001301409  
Red=Cloning site Green=Tags(s)

MEAAVKEEISLEDEAVDKNIFRDCNKIAFYRRQKQWL SKKSTYQALLDSVTTDEDSTRFQIINEASKVPL  
 LAEITYGIEGNI FRLKINEETPLKPRFEVPDVL TSKPSTVRLISCSGDTGSLILADGKGLKCHITANPFK  
 VDLVSEEEVVISINSLGQLYFEHLQILHKQRAAKENEEETSVDTSQENQEDLGLWEEKFGKFVDIKANGP  
 SSIGLDFSLHGFEHLYGIPQHAESHQLKNTGDGDAYRLYNLDVYGYQIYDKMGIYGSVPYLLAHKLGRTI  
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 LTDIGEK

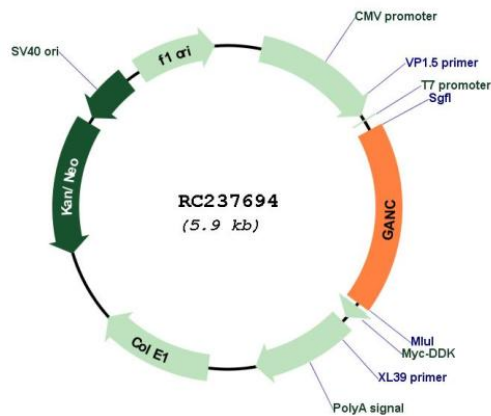
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001301409

<b>ORF Size:</b>	1071 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001301409.1</a> , <a href="#">NP_001288338.1</a>
<b>RefSeq Size:</b>	2533 bp
<b>RefSeq ORF:</b>	1074 bp
<b>Locus ID:</b>	2595
<b>Cytogenetics:</b>	15q15.1
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Galactose metabolism, Metabolic pathways, Starch and sucrose metabolism
<b>MW:</b>	40.7 kDa
<b>Gene Summary:</b>	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]