

Product datasheet for **RC237157**

GANC (NM_001301410) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: GANC (NM_001301410) 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: >RC237157 representing NM_001301410
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGAAGCAGCAGTGAAGAGGAAATAAGTCTTGAAGATGAAGCTGTAGATAAAAAACATTTTCAGAGACT
GTAACAAGATCGCATTTTACAGGCGTCAGAAACAGTGGCTTTCCAAGAAGTCCACCTATCAGGCATTATT
GGATTCAGTCACAACAGATGAAGACAGCACCAGGTTCCAATCATCAATGAAGCAAGTAAGTTCAGGTGC
CAGGACCAGAGCCCAACAACTCTGGATGCCTTCAAAGGCAAGAAACCACAGTCCAGGAGGAGACACAGG
ATCTCAGCACAAGACAGCACCTGGCTCAAAGGAAAGCTGAGGAGCCTGATAAACAAGGACAAATTACCTG
GGACATCAGCAACGTAGCTCCCAAGACTGAGAAGCTTTGAGGACCTTTGGAACTCCATGCTCAGCC
TGTTTGAAGTTTACCAGAGACAACCTTCCAGCAGCTTCTCCGAGGATGCAGGAATATCTCTGAGCA
CCTCTGTGAAGTTACCCCTTGCCTTTCATCTAAGCCTAATGAAAATGAAGCTTTGCCAACCCAGCCACC
TTCTCAGCAGATAAGGCACAACCTACCGCTTATTAGCCAGTACTGTGTCTGCAGAAATGGCCAGGAACAGG
CAGCTAATTTGGAACTGGCCAGACAATCAGAAGCACACCTGGACAGGCCAGTTGTCTTGGGGAACAGG
CCAGTGCCAGCGTGAGGTTGCCAGTATCTTTGTAGAAAATCAGTGCTTGAATAAACCAACTGGCTGC
AACTGTAGAAGGACAATTAGTGTCTACAGCAATTTAATGAAGTATTAGACCATCCTCTGGATCCCGGG
AGGTCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237157 representing NM_001301410
Red=Cloning site Green=Tags(s)

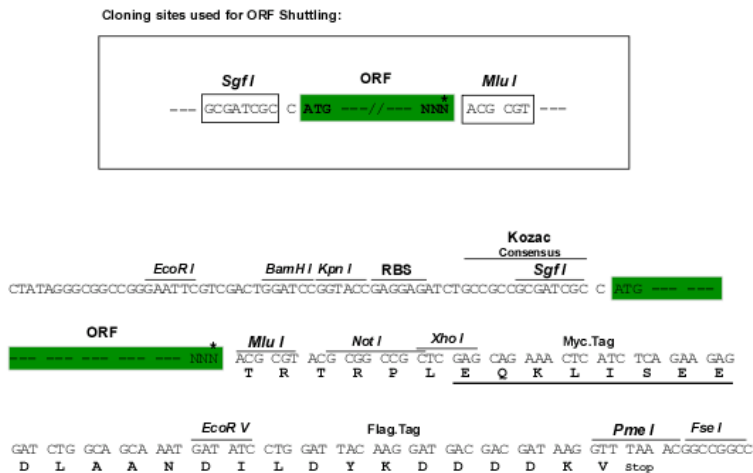
MEAAVKEEISLEDEAVDKNIFRDCNKIAFYRRQKQWL SKKSTYQALLDSVTTDEDSTRFQIINEASKVRC
 QDQSPTTLDAFKGKETTVEETQDLSTRQHLAQKEAEPDKQGQITWDISNVAPKTENFEDLLEQTPCSA
 CLQGFTRDNTSSSFSEDAGISLSTSVKLP LASSSKPNENEALPNQPPSQQIRHNYRLLASTVSAEMARNR
 QLIWELARQSEAHDRPVVLGEQASAREVASILCRKSVLAINQLAATVEGTISVLQQFNELLDHPLDPG
 RS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

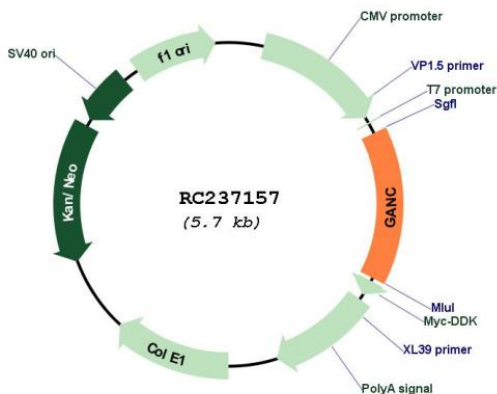
SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001301410

ORF Size:	846 bp
OTI Disclaimer:	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. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	NM_001301410.1 , NP_001288339.1
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
MW:	32 kDa
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]