

Product datasheet for **RG237157**

GANC (NM_001301410) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GANC (NM_001301410) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GANC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237157 representing NM_001301410. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAAGCAGCAGTAAAAGAGGAAATAAGTCTTGAAGATGAAGCTGTAGATAAAAAACATTTTCAGAGAC
TGTAACAAGATCGCATTTTACAGGCGTCAGAAACAGTGGCTTTCCAAGAAGTCCACCTATCAGGCATTA
TTGGATTCAGTCACAACAGATGAAGACAGCACCAGGTTCCAAATCATCAATGAAGCAAGTAAGGTCAGG
TGCCAGGACCAGAGCCCAACACTCTGGATGCCTTCAAAGGCAAAGAAACCACAGTCCAGGAGGAGACA
CAGGATCTCAGCACAAGACAGCACCTGGCTCAAAGGAAGCTGAGGAGCCTGATAAACAAGGACAAATT
ACCTGGGACATCAGCAACGTAGCTCCCAAGACTGAGAACTTTGGAGACCTTTGGAACAAACTCCATGC
TCAGCCTGTTTGCAAGGTTTACCAGAGACAACACTTCCAGCAGCTTCTCCGAGGATGCAGGAATATCT
CTGAGCACCTCTGTGAAGTTACCCCTTGCCCTTTCATCTAAGCCTAATGAAAATGAAGCTTTGCCAAC
CAGCCACCTTCTCAGCAGATAAGGCACAACCTACCGCTTATTAGCCAGTACTGTGTCTGCAGAAATGGCC
AGGAACAGGCAGCTAATTTGGGAACTGGCCAGACAATCAGAAGCACACCTGGACAGGCCAGTTGTCTT
GGGGAACAGGCCAGTGCCAGCGTGAGGTTGCCAGTATTCTTTGTAGAAAATCAGTGCTTGAATAAAC
CAACTGGCTGCAACTGTAGAAGGACAATTAGTGTCTACAGCAATTTAATGAATTATTAGACCATCCT
CTGGATCCCGGGAGGTCT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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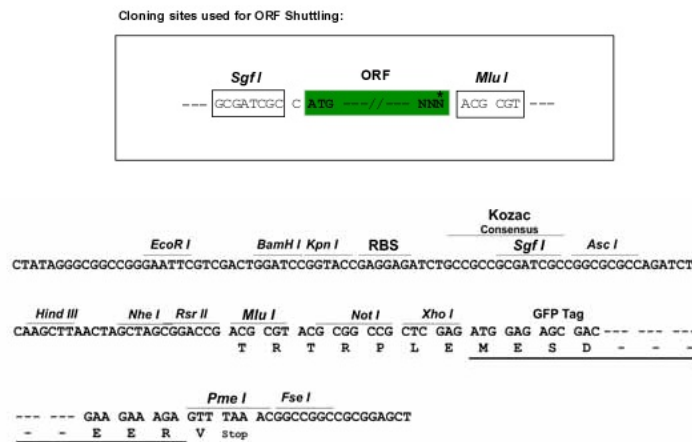
[View online »](#)

Protein Sequence: >Peptide sequence encoded by RG237157
 Blue=ORF Red=Cloning site Green=Tag(s)

MEAAVKEEISLEDEAVDKNIFRDCNKIAFYRRQKQWLSKKSTYQALLDSVTTDEDSTRFQIINEASKVR
 CQDQSPPTLDAFKGKETTQEE TQDLSTRQHLAQKEAEEPDKQGQITWDISNVAPKTENFEDLLEQTPC
 SACLQGFTRDNTSSSFSEDAGISLSTSVKLPLASSKPNENEALPNQPPSQQIRHNYRLLASTVSAEMA
 RNRQLIWELARQSEAHLD RPVVLGEQASAREVASILCRKSVLAINQLAATVEGTISVLQFNNELLDHP
 LDPGRS
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIIRSNAVHHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



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.

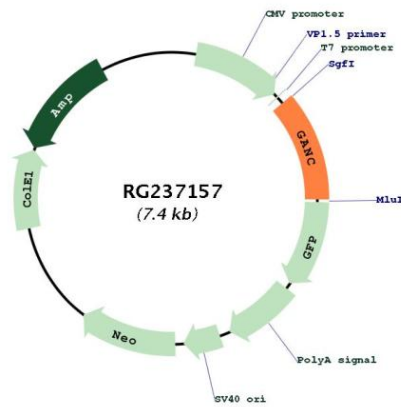
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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]

Product images:



Circular map for RG237157