

## Product datasheet for **RG209301**

### **GANC (NM\_198141) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GANC (NM_198141) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GANC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG209301 representing NM\_198141  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAAGCAGCAGTGAAGAGGAAATAAGTGTGAAGATGAAGCTGTAGATAAAAAACATTTTCAGAGACT  
 GTAACAAGATCGCATTTTACAGGCGTCAGAAACAGTGGCTTTC AAGAAGTCCACCTATCGGGCATTATT  
 GGATTCAGTCACAACAGATGAAGACAGCACCAGGTTCCAATCATCAATGAAGCAAGTAAGTTCCTCTC  
 CTGGCTGAAATTTATGGTATAGAAGGAAACATTTTCAGGCTTAAAATTAACGAAGAGACTCCTCTAAAC  
 CCAGATTTGAAGTTCGGATGTCCTCACAAGCAAGCCAAGCACTGTAAAGGCTGATTTTCATGCTCTGGGA  
 CACAGGCAGTCTGATATTGGCAGATGAAAAGGAGACCTGAAGTGCCATATCACAGCAAACCCATTCAAG  
 GTAGACTTGGTGTCTGAAGAAGAGGTTGTGATTAGCATAAATCCCTGGGCAATTATACTTTGAGCATC  
 TACAGATTTCTCACAAACAAGAGCTGCTAAAGAAAATGAGGAGGAGACATCAGTGGACACCTCTCAGGA  
 AAATCAAGAAGATCTGGGCTGTGGGAAGAGAAAATTTGGAAAATTTGTGGATATCAAAGCTAATGGCCCT  
 TCTTCTATTGGTTGGATTTCTCCTTGCATGGATTTGAGCATCTTTATGGGATCCCAACAATGCAGAAT  
 CACACCACTTAAAAATACTGGTGTAGGAGATGCTTACCGTCTTTATAACCTGGATGTCTATGGATACCA  
 AATATATGATAAAATGGGCATTTATGGTTCAGTACCTTATCTCCTGGCCACAACTGGGCGAAGTATA  
 GGTATTTTCTGGCTGAATGCCTCGGAAACACTGGTGGAGATCAATACAGAGCCTGCAGTAGAGTACACAC  
 TGACCCAGATGGGCCAGTTGCTGCTAAACAAAAGGTCAGATCTCGCACTCATGTGCACTGGATGTCAGA  
 GAGTGGCATCATTGATGTTTTCTGCTGACAGGACCTACACCTTCTGATGCTTCAAACAGTACTCACAC  
 CTTACAGGCACACAAGCCATGCCCTCTTTTCTTTGGGATACCACCAGTCCCGCTGGAACATGAAG  
 ATGAGCAGGATGTAAAAGCAGTGGATGAGGTTTGTGATGAGCATGACATTCCTTATGATGCCATGTGGCT  
 GGACATAGAGCACACTGAGGGCAAGAGGTACTTACCTGGGACAAAAACAGATTCCCAACCCCAAGAGG  
 ATGCAAGAGCTGCTCAGGAGCAAAAAGCGTAAGCTTGTGGTCATCAGTGATCCCCACATCAAGATTGATC  
 CTGACTACTCAGTATATGTGAAGGCCAAAGATCAGGGCTTCTTTGTGAAGAATCAGGAAGGGGAAGACTT  
 TGAAGGGGTGTGGCCAGGTCTCTCCTTACCTGGATTTACCAATCCCAAGGTCAGAGAGTGGTAT  
 TCAAGTCTTTTGTCTTCCCTGTTTATCAGGGATCTACGGACATCCTCTTCTTTGGAATGACATGAATG  
 AGCCTTCTGTCTTAGAGGGCCAGAGCAAACATGCAGAAGAATGCCATTCATCATGGCAATTGGGAGCA  
 CAGAGAGCTCCACAACATCTACGGTTTTATCATCAAATGGCTACTGCAGAAGGACTGATAAAACGATCT  
 AAAGGGAAGGAGAGACCCTTTGTTCTTACAGTCTTTCTTTGCTGGATCACAAAAGTATGGTGGCCTGT  
 GGACAGGCGACAACACAGCAGAATGGAGCAACTTGAAAATTTCTATCCCAATGTTACTACTCTCAGCAT  
 TACTGGGATCTCTTTTGCAGGAGCTGACATAGGCGGGTTCATTGGGAATCCAGAGACAGAGCTGCTAGTG  
 CGTTGGTACCAGGCTGGAGCCTACCAGCCCTTCTCCGTGGCCATGCCACCATGAACACCAAGCGCAGAG  
 AGCCCTGGCTCTTTGGGGAGGAACACACCCGACTCATCCGAGAAGCCATCAGAGAGCGCTATGGCCTCCT  
 GCCATATTGGTATTCTCTGTTCTACCATGCACACGTGGCTTCCCAACCTGTATGAGGCCTCTGTGGGTA  
 GAGTTCCTGTGAACTAAAGACTTTTGATATGGAAGATGAATACATGCTGGGGAGTGCATTATTGGTTC  
 ATCCAGTCACAGAACAAAAGCCACCACAGTTGATGTGTTTCTCCAGGATCAAATGAGGCTGGTATGA  
 CTATAAGACATTTGCTCATTGGGAAGGAGGGTACTGTAAGATCCCAGTAGCCTTGACACTATTCCA  
 GTGTTTACAGCGAGGTGGAAGTGTGATACCAATAAAGACAAGTGTAGGAAAATCCACAGGCTGGATGACTG  
 AATCCTCTATGACTCCGGTGTCTAAGCACTAAGGGTCTTTCAGTGGGTGAGTTATATCTTGATGA  
 TGGCCATTCAATCAATACCTCCACCAGAAGCAATTTTGCACAGGAAGTTTTCATTCTGTTCCAGTGT  
 CTGATCAATAGTTTTGCTGACCAGAGGGTCAATATCCAGCAAGTGTGTGGTGGAGAAGATCTTGGTCT  
 TAGGCTTCAGGAAGGAGCCATCTCTGTGACTACCACTCATCTGATGGTAAAGATCAGCCTGTGGCTTT  
 TACGTATTGTGCCAAAACATCCATCCTGAGCCTGGAGAAGCTCTCACTCAACATTGCCACTGACTGGGAG  
 GTCCGCATCATA

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG209301 representing NM\_198141  
 Red=Cloning site Green=Tags(s)

MEAAVKEEISVEDEAVDKNIFRDCNKIAFYRRQKQWLSKKSTYRALLDSVTTDEDSTRFQIINEASKVPL  
 LAEYIGIEGNIIFRLKINEETPLKPRFEVPDVLTSKPSTVRLISCSGDTGSLILADGKGLKCHITANPFK  
 VDLVSEEEVVVISINSLGQLYFEHLQILHKQRAAKENEEETSVDTSQENQEDLGLWEEKFGKFVDIKANGP  
 SSIGLDFSLHGFEHLYGIPQHAESHQLKNTGDGDAYRLYNLDVYGYQIYDKMGIYGSVPYLLAHKLGRTI  
 GIFWLNASETLVEINTEPAVEYTLTQMGPVAAKQKVRSRTHVHMWSESGIIDVFLLTGPTPSDVFQYSH  
 LTGTQAMPPLFSLGYHQCRWNYEDEQDVKAVDAGFDEHDIPYDAMWLDIEHTEGKRYFTWDKNRFPNPKR  
 MQELLRSKKRKLVVISDPHIKIDPDYSVYVKAQDQGFVKNQEGEDFEGVCWPGLSSYLDFTNPKVREWY  
 SSLFAFPVYQGSTDILFLWDMNEPSVFRGPEQTMQKNAIHHGNWEHRELHNIYGFYHQMATAEGLIKRS  
 KGKERPFVLRTRFFAGSQKYGAVWTGDNTAEWSNLKISIPMLLTLSITGISFCGADIGGFIGNPETELLV  
 RWYQAGAYQPFRRGHATMNTKRREPWLFGEHTRLIREAIRERYGLLPYWYSLFYHAHVASQPVMRPLWV  
 EFPDELKTFDMEDEYMLGSALLVHPVTEPKATTVDVFLPGSNEVWYDYKTFAHWEGGCTVKIPVALDTIP  
 VFQRGGSVPIKTTVGKSTGWMTESSYGLRVALSTKGSSVYGLYLDGHSFQYLHQKQLHRKFSFCSSV  
 LINSFADQRGHYPSKCVVEKILVLGFRKEPSSVTHSSDGKDQPVAFYCAKTSILSLEKLSLNIATDWE  
 VRII

TRTRPLE – GFP Tag – V

**Restriction Sites:**

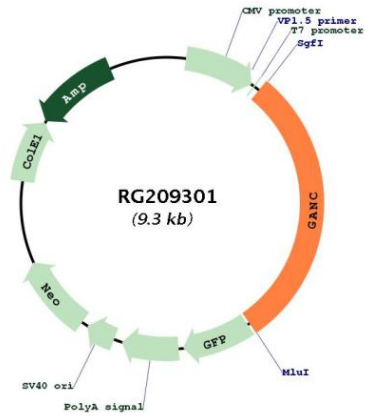
SgfI-MluI

**Cloning Scheme:**



<b>ACCN:</b>	NM_198141
<b>ORF Size:</b>	2742 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_198141.1</a>
<b>RefSeq Size:</b>	4603 bp
<b>RefSeq ORF:</b>	2745 bp
<b>Locus ID:</b>	2595
<b>UniProt ID:</b>	<a href="#">Q8TET4</a>
<b>Cytogenetics:</b>	15q15.1
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Galactose metabolism, Metabolic pathways, Starch and sucrose metabolism
<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]

Product images:



Circular map for RG209301