

Product datasheet for **RG206547**

GNA14 (NM_004297) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	GNA14
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG206547 representing NM_004297
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGC**

ATGGCCGGCTGCTGCTGCCTGTCCGCGGAGGAGAAGGAGTCGCAGCGCATCAGCGGGAGATCGAGCGAC
AGCTTCGTCGGGACAAGAAGGACGCGCCGTGAGCTTAAGCTGCTGCTGGGAAGTGGTAAAGTGG
GAAAAGCACCTTTATCAAGCAGATGAGAATTATCCATGGGTCTGGTTACAGCGACGAAGACAGAAAGGG
TTCACGAAGCTGGTTTACAAAACATATTCACCGCCATGCAAGCCATGATCAGAGCGATGGACACGCTAA
GGATACAGTATGTGTGAACAGAATAAGGAAATGCCAGATAATCAGAGAAGTGGAAAGTGGACAAGGT
CTCCATGCTCTCCAGGGAGCAGGTGGAGGCCATCAAGCAGCTCTGGCAAGATCCAGGCATCCAGGAGTGT
TACGACAGGAGGAGGAGTACCAGCTGTCCGACTCTGCCAAATATTACCTGACTGACATTGACCGCATCG
CCACACCATCATTCGTGCCTACCCAACAAGATGTGCTTCGCGTCCGAGTGCCCAACCGGCATCATTGA
GTATCCATTTGACTTGAAAAACATCATCTTCGGATGGTGGATGTTGGTGGCCAACGATCGGAAAGACGG
AAGTGGATTCAGTCTTTGAGAGTGTACCTCCATTATTTCTTGGTTGCTCTGAGTGAATATGACCAGG
TCCTGGCTGAGTGTGACAACGAGAATCGCATGGAAGAGAGCAAAGCCTTATTTAAACCATCATCACCTA
CCCCTGGTTTCTGAATTCGTCTGTGATTTTATTCTTGAACAAGAAGGATCTTTTGAAGAGAAAAATCATG
TACTCTCATCTAATTAGCTATTTCCAGAATACACAGGACCGAAACAGGATGTCAGAGCTGCCAGAGACT
TTATCTGAAGCTTTACCAAGATCAGAATCCTGACAAAGAGAAAGTCATCTACTCTCACTTCACATGTGC
TACAGATACAGACAATTCGCTTTGTGTTGCTGCTGCAAGACACAATTCTACAGCTAAACCTAAGG
GAATTCAACCTTGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



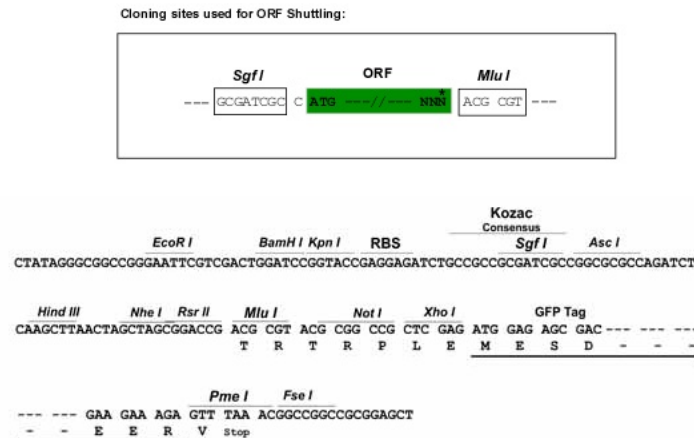
Protein Sequence: >RG206547 representing NM_004297
Red=Cloning site Green=Tags(s)

MAGCCCLSAEEKESQRISAEIERQLRRDKKDARRELKLLLLGTGESGKSTFIKQMRIIHGSGYSDedrKG
FTKLvYQNIFTAMQAMIRAMDTLRIQYVCEQNKENAQIIREVEVDKVSMLSREQVEAIKQLWQDPGIQEC
YDRRREYQLSDSAKYLLTDIDRIATPSFVPTQQDVLVRVPTTGIIIEYFDLENIIFRMVDVGGQRSErr
KWIHCFESVTSIIIFLVALSEYDQVLAECNENRMEESKALFKTIITYPWF LNSSVILFLNKKDLLEEKIM
YSHLISYFPEYTGPKQDVRAARDFILKLYQDQNPDKKVIYSHFTCATD TDNIRVFVAAVKDTILQLNLR
EFNLV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004297

ORF Size: 1065 bp

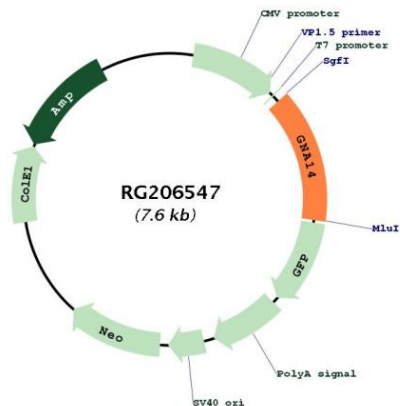
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_004297.4
RefSeq Size:	1953 bp
RefSeq ORF:	1068 bp
Locus ID:	9630
UniProt ID:	O95837
Cytogenetics:	9q21.2
Protein Families:	Druggable Genome
Protein Pathways:	Calcium signaling pathway
Gene Summary:	This gene encodes a member of the guanine nucleotide-binding, or G protein family. G proteins are heterotrimers consisting of alpha, beta and gamma subunits. The encoded protein is a member of the alpha family of G proteins, more specifically the alpha q subfamily of G proteins. The encoded protein may play a role in pertussis-toxin resistant activation of phospholipase C-beta and its downstream effectors.[provided by RefSeq, Feb 2009]

Product images:



Circular map for RG206547