

Product datasheet for RC217505

GLYATL1 (NM_080661) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GLYATL1 (NM_080661) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GLYATL1
Synonyms:	GATF-C; GNAT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC217505 representing NM_080661 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTCAAACGTGTGTTCAAATAAGATGGTGTCAACAAGAAGGATCTGAAGTGGAGCTTCTAGTATCCCCAG
GAGCGGAAGTGAACACGGAAGGTACCTGCAGGATCCAATTGTGTCCATTGATCTCTCAGAGTGGCTGAG
GATAATAGAGTTTCTTCTCAAGGTCTCAAGGTGTATGGCTCTGTGTATCACATCAATCACGGGAACCCC
TTCAACATGGAGGTGCTGGTGGATTCTGGCCTGAATATCAGATGGTTATTATCCGGCCTCAAAAGCAGG
AGATGACTGATGACATGGATTACATACAAAACGTATATCGTATGTTCTCAAAGAGCCTCAAAAATCAGA
AGAAGTTTTGAAAATTGTGAGATCGTAACTGGAAACAGAGACTCCAAATCCAAGGTCTTCAAGAAAGT
TTAGGTGAGGGGATAAGAGTGGCTACATTTTCAAAGTCAGTGAAAGTAGAGCATTGAGAGCACTCCTCT
TGGTTACGGAAGATATTCTGAAGCTCAATGCCTCCAGTAAAAGCAAGCTTGAAGCTGGGCTGAGACAGG
CCACCCAGATGATGAATTTGAAAGTGAACTCCCAACTTAAAGTATGCCAGCTGGATGTCTCTTATTCT
GGGCTGGTAAATGACAACTGGAAGCGAGGGAAGAATGAGAGGAGCCTGCATTACATCAAGCGCTGCATAG
AAGACCTGCCAGCAGCCTGTATGCTCGGCCAGAGGGAGTCCCGTCTCATGGGTAAACATGGACCCCTC
TTGTGAAGTAGGAATGGCCTACAGCATGGAAGAAATACCGAAGGACAGGCAACATGGCAGCAGTGTGGTG
CGATACATGAAATATCTGCGTCAGAAGAATATTCCATTTTACATCTCTGTGTTGGAAGAAAATGAAGAT
CCGCAGATTTGTGGGGCAGTTTGGTTTCTTTGAGGCCTCTGTGAGTGGCACAATGGACTTGCTACCC
ACAGAATCTAGTTCCATT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC217505 representing NM_080661
Red=Cloning site Green=Tags(s)

MFKLC SNKMVSQEGSEVELLVSPGARSEHG RYLQDPIV SIDLSEWLR IIEFLLQGLKVYGSVYHINHG NP
 FNMEVLVDSWPEYQMVIIRPQKQEMTDDMSYTNVYRMFSKEPQKSEEVLKNCEIVNWKQRLQIQGLQES
 LGEGIRVATFSKSVKVEHSRALLLVTEDILKLNASSKSKLGSWAETGHPDDEFES ETPNFKYAQLDVSYS
 GLVNDNWKRGKNERSLHYIKRCIEDLPAACMLGPEGVPVSWVTMDP SCEVGMAYSMEKYRRTGNMARVMV
 RYMKYLRQKNIPFYISVLEENEDSRRFVGQFGFFEASCEWHQWTCYPQNLVPF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8015_e06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_080661

ORF Size: 999 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.

RefSeq: [NM_080661.4](#), [NP_542392.2](#)

RefSeq Size: 2068 bp

RefSeq ORF: 1002 bp

Locus ID: 92292

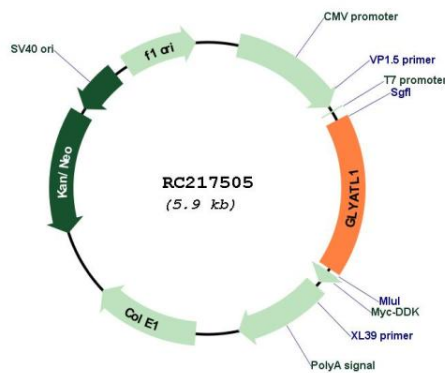
UniProt ID: [Q969I3](#)

Cytogenetics: 11q12.1

MW: 38.5 kDa

Gene Summary: Acyltransferase which transfers an acyl group to the N-terminus of glutamine. Can use phenylacetyl-CoA as an acyl donor.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC217505