

Product datasheet for **RC205043**

GLYATL2 (NM_145016) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GLYATL2 (NM_145016) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GLYATL2
Synonyms:	BXMAS2-10; GATF-B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC205043 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTTGTGCTTCATAACTCTCAGAAGCTGCAGATTCTGTATAAATCCTTAGAAAAGAGCATCCCTGAAT
CCATAAAGGTATATGGCGCCATTTTCAACATAAAAAGATAAAAACCCTTTCAACATGGAGGTGCTGGTAGA
TGCCTGGCCAGATTACCAGATCGTCATTACCCGGCCTCAGAAACAGGAGATGAAAGATGACCAGGATCAT
TATACCAACACTTACCACATCTTACCAAAGCTCCTGACAAATTAGAGGAAGTCTGTACTACTCCAATG
TAATCAGCTGGGAGCAAACCTTTCAGATCCAAGTTGCCAAGAGGGCTTGGATGAAGCAATAAGAAAGGT
TGCAACTTCAAAATCAGTGCAGGTAGATTACATGAAAACCATCCTTTTATACCGGAATTACCAAAGAAA
CACAAGACCTCAAGTAATGACAAGATGGAGTTATTTGAAGTGGATGATGATAACAAGGAAGGAACTTTT
CAAACATGTTCTTAGATGCTTACATGCAGGTCTTGTGAATGAACACTGGGCCTTTGGGAAAAATGAGAG
GAGCTTGAATAATATTGAACGCTGCCTCCAGGATTTTCTAGGATTTGGTGTGCTGGGTCCAGAGGGCCAG
CTTGTCTCTTGGATTGTGATGGAACAGTCTGTGAGTTGAGAATGGGTTACTGTCCCCAAATACAGAC
ACCAAGGCAACATGTTGCAAATGGTTATCATCTTGAAAAGTATCTTTCTCAGAAAGAAATCCCATTTTA
TTTCCATGTGGCAGATAAATGAGAAAAGCCTACAGGCACTGAACAATTTGGGGTTAAGATTTGTCTT
TGTGGCTGGCATCAGTGGAAATGCACCCCAAGAAATATTGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC205043 protein sequence
Red=Cloning site Green=Tags(s)

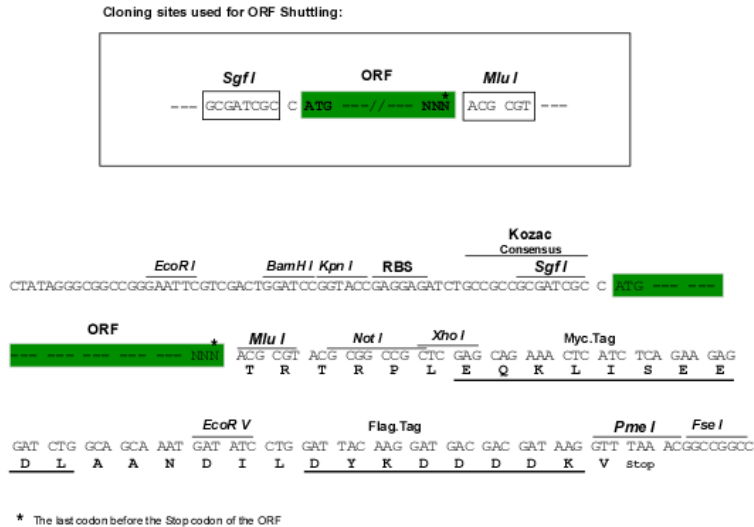
MLVLHNSQKLQILYKSLEKSIPESIKVYGAI FN IKDKNPFNMEVLVDAWPDYQIVITRPQKQEMKDDQDH
 YTNTYHIFTKAPDKLEEVLSYSNVISWEQTLQIQGCQEGLEAIRKVATSKSVQVDYMKTILFIPELPKK
 HKTSSNDKMELFEVDDDNKEGNFSNMFLDASHAGLVNEHWAFGKNERSLKYIERCLQDFLGFGLGPEGQ
 L VSWIVMEQSCELRMGYTVPKYRHQGNMLQIGYHLEKYL S QKEIPFYFHVADNNEKSLQALNNLGFKICP
 CGWHQWKCTPKKYC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6580_e05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_145016

ORF Size: 882 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_145016.4](#)

RefSeq Size: 1386 bp

RefSeq ORF: 885 bp

Locus ID: 219970

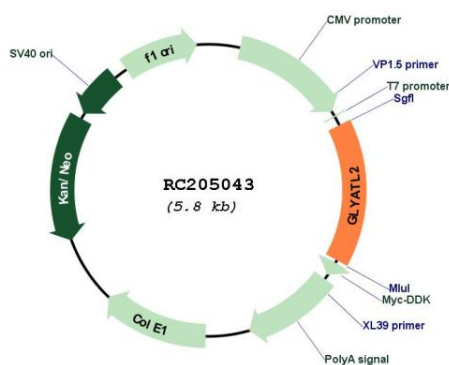
UniProt ID: [Q8WU03](#)

Cytogenetics: 11q12.1

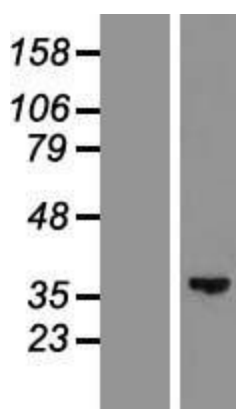
MW: 34.3 kDa

Gene Summary: Mitochondrial acyltransferase which transfers the acyl group to the N-terminus of glycine. Conjugates numerous substrates, such as arachidonoyl-CoA and saturated medium and long-chain acyl-CoAs ranging from chain-length C8:0-CoA to C18:0-CoA, to form a variety of N-acylglycines. Shows a preference for monounsaturated fatty acid oleoyl-CoA (C18:1-CoA) as an acyl donor. Does not exhibit any activity toward C22:6-CoA and chenodeoxycholoyl-CoA, nor toward serine or alanine.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC205043



Western blot validation of overexpression lysate (Cat# [LY408078]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205043 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).