

Product datasheet for **RG205043**

GLYATL2 (NM_145016) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GLYATL2 (NM_145016) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GLYATL2
Synonyms:	BXMAS2-10; GATF-B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205043 representing NM_145016 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTTGTGCTTCATAACTCTCAGAAGCTGCAGATTCTGTATAAATCCTTAGAAAAGAGCATCCCTGAAT
CCATAAAGGTATATGGCGCCATTTTCAACATAAAAAGATAAAAACCCTTTCAACATGGAGGTGCTGGTAGA
TGCCTGGCCAGATTACCAGATCGTCATTACCCGGCCTCAGAAACAGGAGATGAAAGATGACCAGGATCAT
TATACCAACACTTACCACATCTTACCAAAGCTCCTGACAAATTAGAGGAAGTCTGTACTACTCCAATG
TAATCAGCTGGGAGCAAACCTTTCAGATCCAAGTTGCCAAGAGGGCTTGGATGAAGCAATAAGAAAGGT
TGCAACTTCAAAATCAGTGCAGGTAGATTACATGAAAACCATCCTCTTTATACCGGAATTACCAAAGAAA
CACAAGACCTCAAGTAATGACAAGATGGAGTTATTTGAAGTGGATGATGATAACAAGGAAGGAACTTTT
CAAACATGTTCTTAGATGCTTACATGCAGGTCTTGTGAATGAACACTGGGCCTTTGGGAAAAATGAGAG
GAGCTTGAATAATTTGAACGCTGCCTCCAGGATTTTCTAGGATTTGGTGTGCTGGGTCCAGAGGGCCAG
CTTGTCTCTTGGATTGTGATGGAACAGTCTGTGAGTTGAGAATGGGTTACTGTCCCCAAATACAGAC
ACCAAGGCAACATGTTGCAAATGGTTATCATCTTGAAAAGTATCTTTCTCAGAAAAGAAATCCCATTTTA
TTTCCATGTGGCAGATAAATGAGAAAAGCCTACAGGCCTGAACAATTTGGGGTTAAGATTTGTCTT
TGTGGCTGGCATCAGTGGAAATGCACCCCAAGAAATATTGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG205043 representing NM_145016
Red=Cloning site Green=Tags(s)

MLVLHNSQKLQILYKSLEKSIPESIKVYGAI FN I K D K N P F N M E V L V D A W P D Y Q I V I T R P Q K Q E M K D D Q D H
 Y T N T Y H I F T K A P D K L E E V L S Y S N V I S W E Q T L Q I Q C Q E G L D E A I R K V A T S K S V Q V D Y M K T I L F I P E L P K K
 H K T S S N D K M E L F E V D D N K E G N F S N M F L D A S H A G L V N E H W A F G K N E R S L K Y I E R C L Q D F L G F G V L G P E G Q
 L V S W I V M E Q S C E L R M G Y T V P K Y R H Q G N M L Q I G Y H L E K Y L S Q K E I P F Y F H V A D N N E K S L Q A L N N L G F K I C P
 C G W H Q W K C T P K K Y C

TRTRPLE - GFP Tag - V

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: 1636 bp

RefSeq ORF: 885 bp

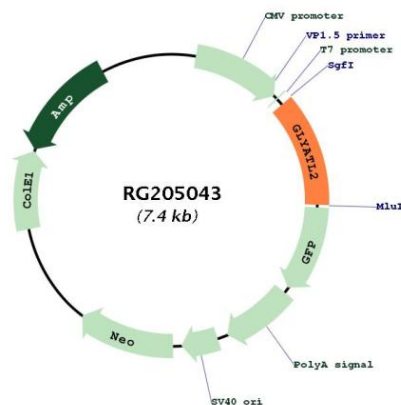
Locus ID: 219970

UniProt ID: [Q8WU03](#)

Cytogenetics: 11q12.1

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 RG205043