

Product datasheet for **MR204089**

Glyat (NM_145935) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glyat (NM_145935) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Glyat
Synonyms:	A330009E03Rik; ACGNAT; AI195249; AI315345; CAT; GAT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204089 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGATTGTTCCATTACAAGGTGCACAGATGCTACAAATGTTGGAGAAATCCTTGAGGAAGTACCTTCCTG
 AATCCTTAAAGTTTATGGGACCGTCTATCACATGATCCATGGAAACCCATTCAACCTAAAAGCCCTAGT
 TGACAAGTGGCCTGATTTTAACACAGTGGTTGTCCGCCCTCAAGAACAGGAGATGACAGATGACCTTGAT
 TTCTACATCAATACTTACCAGGTCTACTCAAAGACCCCCAGAACTGTCAGGAATTCCTGGAGTCCCTCAG
 AAGTCATTAAGTGAACAACATTTGCAGATTCAAAGTCCCAGTCCCACCTGAATAAGACGATACAAAA
 TCTTGCAAGCATCCAATCTTTCAAATCAAACATTCAGAAAACATCCTCTATGTATCATCAGAGACAATC
 AAGAACTGTTCCCTTCCTGCTGGATACAAAGAATTTATCGACAGGAAGTGGCAAGCCCAAGGCCATTG
 ATCAAGACAAGTTTAACTTTTCCTTGGATGTTGTCCATGCTGCCTTGGTGAATAAATCTGGCTTTT
 TGGTGGCAATGAGAGGAGCCAGAGATTCATTGAACGCTGCATAAAGAAGTCCCAAGTTCCTGTGCCTG
 GGGCCTGAGGGAACCCCTGCATCTTGGACTCTAATGGACCAAAGTGGAGAGATGCGAATGGGAGGCACTA
 TGCCTGAGTACCGGCTCCAAGTCTTGTCTCCTTTGTTGTCCATTACAAGACCAGATTATGACAAAGCG
 TGGTTATCCTGTTTATTCTCACCGGAGAAAAGTAATATCGCTATGCAAAAAATGAGTTACACACTGCAG
 CATCTCCCATGCCCTGTGCCTGGAACCAATGGAAGTGCATGCCTATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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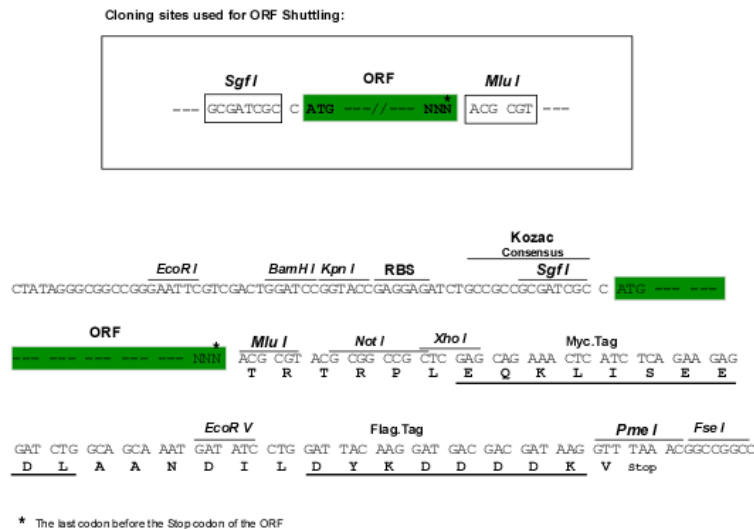
Protein Sequence: >MR204089 protein sequence
 Red=Cloning site Green=Tags(s)

MIVPLQGAQMLQMLEKSLRKYLPESLKVYGTVYHMIHGNPFNLKALVDKWPDFNTVVVRPQEQEMTDDL
 FYINTYQVYSKDPQNCQEFLESSEVINWKQHLQIQSSQSHLNKTIQNLASIQSFQIKHSENILYVSSETI
 KKLFPSLDDTKNLSTGSGKPKAIDQDKFKLSSLDVVHAALVNKFWLFGGNERSQRFIERCIKNFPSSCVL
 GPEGTPASWTLMDQTGEMRMGGTMPEYRLQGLVSFVHSQDQIMTKRGYPVYSHTEKSNIAMQKMSYTLQ
 HLPMPCAWNQWKCPM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_145935

ORF Size: 888 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_145935.3](#)

RefSeq Size: 1310 bp

RefSeq ORF: 891 bp

Locus ID: 107146

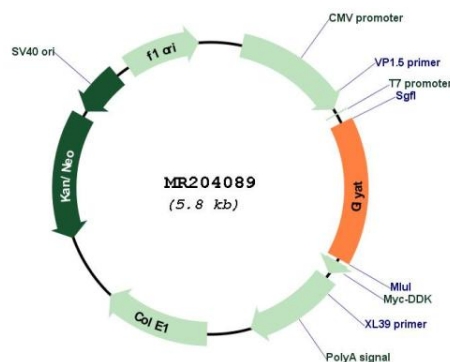
UniProt ID: [Q91XE0](#)

Cytogenetics: 19 A

MW: 34.1 kDa

Gene Summary: Mitochondrial acyltransferase which transfers an acyl group to the N-terminus of glycine and glutamine, although much less efficiently. Can conjugate a multitude of substrates to form a variety of N-acylglycines, thereby detoxify xenobiotics, such as benzoic acid or salicylic acid, and endogenous organic acids, such as isovaleric acid.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204089