

## Product datasheet for **MC201077**

### Glyat (NM\_145935) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Glyat (NM\_145935) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Glyat  
**Synonyms:** A330009E03Rik; ACGNAT; AI195249; AI315345; CAT; GAT  
**Mammalian Cell Selection:** Neomycin  
**Vector:** PCMV6-Kan/Neo (PCMV6KN)  
**E. coli Selection:** Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >BC010799 sequence for NM\_145935  
 CACCAAGCCTGCTGTATCAGACTTTCATCTCTCAGAAGTCCATTTTTACGAAGATTGCTGAGACAGCTTT  
 CCAGGCTAAAGTGTCTCATGATTGTTCCATTACAAGGTGCACAGATGCTACAAATGTTGGAGAAATCCT  
 TGAGGAAGTACCTTCTGAATCCTTAAAGTTTTATGGGACCGTCTATCACATGATCCATGGAACCCATT  
 CAACCTAAAAGCCCTAGTTGACAAGTGGCCTGATTTTAAACACAGTGGTTGTCCGCCCTCAAGAACAGGAG  
 ATGACAGATGACCTTGATTTCTACATCAATACTTACCAGGTCTACTCCAAAGACCCCAAGACTGTCAGG  
 AATTCTGGAGTCTCAGAAGTCATTAAGTGAACAACATTTGCAGATTCAAAGTTCACAGTCCCACCT  
 GAATAAGACGATACAAAATCTTGAAGCATCCAATCTTTTCAAATCAAACATTCAGAAAACATCCTCTAT  
 GTATCATCAGAGACAATCAAGAACTGTTCCCTTCCCTGCTGGATACAAAGAATTTATCGACAGGAAGTG  
 GCAAGCCCAAGGCCATTGATCAAGACAAGTTAACTTTTATCCTTGGATGTTGCCATGCTGCCTTGGT  
 GAATAAATCTGGCTTTTTGGTGGCAATGAGAGGAGCCAGAGATTCATTGAACGCTGCATAAAGAATTC  
 CCAAGTTCCTGTGCTCCTGGGCTGAGGGAACCCCTGCATCTTGGACTCTAATGGACCAAATGGAGAGA  
 TCGAATGGGAGGCACTATGCCTGAGTACCGGCTCCAAGGCTTTGTCTCCTTTGTGTCCATTCACAAGA  
 CCAGATTATGACAAAGCGTGGTTATCCTGTTTATTCTCACACGGAGAAAAGTAATATCGCTATGCAAAAA  
 ATGAGTTACACTGCAGCATCTCCCCATGCCCTGTGCCCTGGAACCAATGGAAGTGCATGCCTATGTGAA  
 GCTGGACTCAAACAGAAGCTGGTGTGAGTGGGCCAGGGATGTAAGTGGTGGACAAAGAGTGAAGA  
 TTAAGTAAAAGATAGAATAAATGGCAACTAGCTGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_145935

**Insert Size:** 891 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).



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<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">BC010799</a></u> , <u><a href="#">AAH10799</a></u>
<b>RefSeq Size:</b>	1120 bp
<b>RefSeq ORF:</b>	891 bp
<b>Locus ID:</b>	107146
<b>UniProt ID:</b>	<u><a href="#">Q91XE0</a></u>
<b>Cytogenetics:</b>	19 A
<b>Gene Summary:</b>	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]