

## Product datasheet for **MG218051**

### Gcat (NM\_001161712) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gcat (NM_001161712) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gcat
Synonyms:	A1526977; Kbl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG218051 representing NM_001161712 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTGGGCCAGTTCATGTGGCACGGGGCGCTGTCCCCTGGCCGCCGCGCACATTCAGCGCTGGCTCAGT  
TGCGCTGCATCCTGGACAGCGAACTGGAAGGGATCCGCGGAGCCGGCACCTGGAAGAGTGAGCGTGTGAT  
CACGTCCCAGGGACCGAGCATCCGCGTGGACGGCATCTCGGGAGGAATCCTCAACTTCTGTGCCAAT  
AACTACCTGGCCTGAGCAGCCACCCTGCAGTGATCCAGGCAGGTCTGCAGACTCTGGAGGAGTTTGGAG  
CTGGACTCAGTTCTACTCGATTTATCTGTGGACCCAGAGCATCCATAAGAATCTAGAAGCCAAGATAGC  
CCACTTCCACCAGCGTGAGGACGCCATCCTCTATCCCAGCTGTTTCGATGCCAACGCTGGCCTATTTGAG  
GCTTTGCTGACCCAGAGGATGCGGTTCTGTCAGATGAGCTGAACCATGCTTCCATCATTGACGGCATCC  
GACTGTGCAAGGCCACAAAGTACCGTTACCGCCACCTGGACATGGCTGACCTGGAAGCCAAGCTGAAGGA  
GGCTCAGAAGCACAGGCTGCGCCTGGTGGCCACAGATGGAGCTTTCTCCATGGATGGTGACATCGCTCCC  
CTACAGGACATCTGCCGCTTGGCCGCAATATGGTGCCTGGTCTTTGTGGATGAATGCCATGCCACTG  
GCTTTCTGGGCCACAGGACGGGGCACAGATGAGCTGCTAGGTGTCATGGACCAGGTACCATCATCAA  
CTCCACCCTGGGAAGGCGCTGGTGGAGCATCAGGGGATATACCACCGGCCCTGAGCCACTGGTGTCC  
CTGCTACGGCAGGTTCTCGGCCCTACCTTTCTCCAACAGCCTGCCCTGCTGTAGTCCGCTGTGCTT  
CTAAGGCCTGGACCTGCTCATGGAGAGCAATGCCATCATCCAGTCTATGGCTGCCAAGACCCGGCGGTT  
CCGAGTAAGATGGAAGCTGCTGGTTTTACTGTCTCAGGAGCCGATCACCCCATCTGCCCTGTGATGCTG  
GGAGATGCACGGTTGTCTTCTCAAATGGCAGATGACATGTTAAAGAAAGGAAAATGGCTGACATCCAGAA  
CATTTGCTGGACAGCCAGGGAGCG

**ACCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG218051 representing NM\_001161712  
 Red=Cloning site Green=Tags(s)

MWASFMWHGALSPGRRASALALRCILDSELEGIRGAGTWKSERVITSRQGPSIRVDGISGGILNFCAN  
 NYLGLSSHPIVIAQLQTLEEFAGLSSSTRFICGTQSIHKNEAKIAHFHQREDAILYPSCFDANAGLFE  
 ALLTPEDAVLSDELNHASIIDGIRLCKAHKYRYRHLDMADLEAKLKEAQKHRLRLVATDGAFSMDGDIAP  
 LQDICRLAAQYGALVFVDECHATGFLGPTGRGTDELLGVMDQVTIINSTLGKALGGASGGYTTGPEPLVS  
 LLRQRSRPYLFNSLPPAVVGCASKALDLLMESNAIIQSM AAKTRRRFRSKMEAAAGFTVSGADHPICPVML  
 GDARLSSQMADDMLKKGKWLTSRTFRWTAQGA

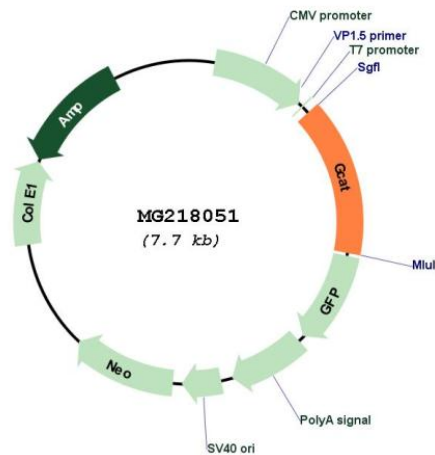
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001161712

<b>ORF Size:</b>	1146 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_001161712.1</a> , <a href="#">NP_001155184.1</a>
<b>RefSeq Size:</b>	1763 bp
<b>RefSeq ORF:</b>	1149 bp
<b>Locus ID:</b>	26912
<b>Cytogenetics:</b>	15 37.7 cM