

## Product datasheet for **RR207714**

### Gcat (NM\_001024277) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gcat (NM_001024277) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gcat
Synonyms:	MGC109060
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR207714 representing NM_001024277 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGTGGGTCAACTTCTTGTGGCGCGGGCGCTGTCCCCGGCCGCGTGTCACTCAGCGCTGGCTCAGC  
TGCCTGCGTCTGGACCGGAGCTGGAAGGGATCCGCGGAGCCGGCACCTGGAAGAGTGAGCGGGTGAT  
CACGTCCCGCCAGGGACCGTGTATCCGCGTGAAGGCATCTCCGAGGAATCCTCAACTTCTGTGCCAAT  
AACTACCTGGGCCTGAGCAGCCACCTGAGGTGATCCAGGCAGGTCTGCAGGCTCTGGAGGATTTGGAG  
CTGGCCTCATTCTACTCGCTTATATGTGGGACCCAGAGCATCCATAAGAATCTAGAAGCCAAGATAGC  
CCGCTTCCACAGCGGAGGACGCCATCCTCTATCCCAGCTGTTTTGATGCCAACACTGGCCTATTTGAG  
GCTCTGCTGACCCAGAGGATGCAGTTCTGTCAGATGAGCTGAACCACGCTTCCGTCATCGACGGCATCC  
GACTGTGCAAGGCCACAAAGTACCGTTACCGCCACCTGGACATGGCTGACTTGAAGCTAAGCTGAAGGA  
GGCTCAGAAGCACAGGCTGCGCCTGGTGGCCACGGATGGAGCCTTCTCCATGGATGGTGTGCTGCC  
CTACAGGAGATCTGCCGCTTGTGCTCAATATGGTGCCTGGTCTTTGTGGATGAATGCCACGCCACTG  
GCTTTCTTGGGCCACTGGAAGAGGCACAGATGAGCTGCTAGGTGTGATGGACCAGGTACCATCATCAA  
CTCCACTCTGGGAAGGCGCTGGGTGGAGCATCAGGAGGCTACACCACGGGCGCTGAGCCGCTGATCTCC  
CTGATGCGGCAGGTTCTAGGCCCTACCTCTTCTCCAACAGCCTGCCCCCTGCTGTTGTTGGCTGTGCTT  
CTAAGGCCCTGGACCTGCTCATGGAGAGTAATACCATCGTTCAAGTCCATGGCCGCAAGACCCGGCGGTT  
CCGAAGTAAGATGGAAGCCGCGGCTTCACTATCTCAGGAGCTGATCACCCATCTGCTCTGTGATGCTT  
GGTGTGCCCCGCTGTCTCTCAAATGGCTGAGGACATGCTAAAGAAAGGTATCTTTGTCATTGGATTTA  
GCTACCCTGTGGTCCGAAGGGCAAGGCCGGATCCGGGTGCAGATCTCAGCCGTACACAGTGAGGAAGA  
CATCGACCCTGTGTGGAGGCCTTTGTGGAGGTGGGAAGCTGCACGGAGCTCTGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

**Protein Sequence:** >RR207714 representing NM\_001024277  
Red=Cloning site Green=Tags(s)

MWVNFLLWRAALSPGRRRAHSALALRCVLDRELEGIRGAGTWKSERVITSRQGPCIRVEGISGGILNFCAN  
 NYLGLSSHPEVIQAGLQALEEFAGL ISTRFCGTQSIHKNEAKIARFHQREDAILYPSCFDANTGLFE  
 ALLTPEDAVLSDELNHASVIDGIRLCKAHKYRYRHLDMALEAKLKEAQKHRLRLVATDGAFSMDGDVAP  
 LQEICRLAAQYGALVFVDECHATGFLGPTGRGTDELLGVMDQVTIINSTLGKALGGASGGYTTGPEPLIS  
 LMRQRSRPYLFNSLPPAVVGCASKALDLLMESNTIVQSMMAAKTRFRFRSKMEAAGFTISGADHPICPVML  
 GDARLSSQMAEDMLKKGIFVIGFSYPVVPK GKARIRVQISAVHSEEDIDRCVEAFVEVGKLGHALP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

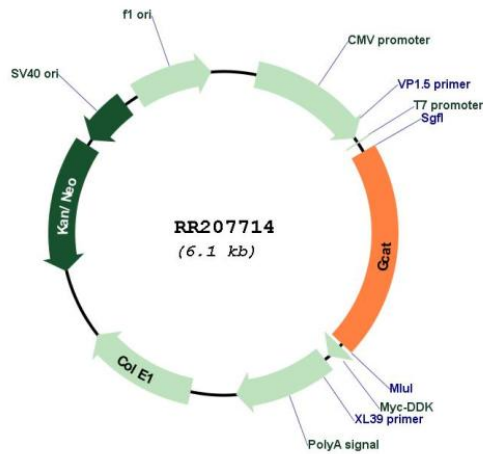
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001024277

<b>ORF Size:</b>	1248 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_001024277.1</a> , <a href="#">NP_001019448.1</a>
<b>RefSeq Size:</b>	1555 bp
<b>RefSeq ORF:</b>	1251 bp
<b>Locus ID:</b>	366959
<b>Cytogenetics:</b>	7q34
<b>MW:</b>	45.2 kDa