

## Product datasheet for **RR208523**

### Gnat1 (NM\_001108780) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gnat1 (NM_001108780) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gnat1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR208523 representing NM_001108780 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGGGGCTGGGGCCAGCGCTGAGGAGAAGCACTCCAGAGAGCTGGAAAAGAAGCTGAAAGAAGACGCTG  
AGAAGGACGCACGACCGTGAAGCTGCTTCTGGGTGCGGGTGAATCCGGGAAAAGCACTATTGTCAA  
GCAGATGAAGATTATCCACCAGGACGGGTATTCGCTGGAAGAATGCCTCGAGTTCATCGCCATCATCTAT  
GGCAACACTCTGCAGTCCATCCTGGCCATCGTGAGGGCTATGACCACGCTCAACATTCAGTATGGAGATT  
CGGCTCGGCAGGACGATGCCCGAAGCTGATGCACATGGCGGATACTATTGAGGAAGGCACAATGCCCAA  
GGAGATGTCAGACATCATTACGCGCCTGTGGAAGGACTCCGGTATCCAAGCTTGCTTTGACCGAGCCTCA  
GAATACCAACTCAATGACTCTGCTGGCTACTACCTTTCAGACCTAGAGCGTCTGGTGACTCCAGGATACG  
TGCCCACTGAGCAGGATGTGTTGCGTTCCTGTGTCAAAACCACTGGTATTATCGAGACTCAATTTTCCTT  
CAAGGACCTCACTTCAGAATGTTTCGATGTGGCGGGCAGCGTTCGAGCGCAAAAAGTGGATCCACTGC  
TTTGAGGGTGTGACGTGCATCATTTTCATCGCTGCGCTGAGCGCTTACGACATGGTGCTGGTGGAGGACG  
ACGAAGTGAACCGAATGCACGAGAGCCTGCACCTGTTCAACAGCATCTGCAATCACCGCTACTTCGCCAC  
GACGTCCATCGTCTCTTCTCAACAAGAAGGAGGTTTTCTCCGAGAAGATAAAAAGGCACACCTCAGC  
ATCTGCTTTCCCGATTACGATGGACCTAACACTTACGACGATGCCGGCAACTACATCAAAGTGCAGTTCC  
TGGAGCTTAACATGCGACGTGATGTGAAGGAGATCTATCCCACATGACCTGCGCTACCGACACACAGAA  
CGTCAAGTTTGTCTTTGACGCCGTACCGACATTATCATCAAGGAGAACCTCAAAGACTGCGGGCTCTTC

**ACGCGT**ACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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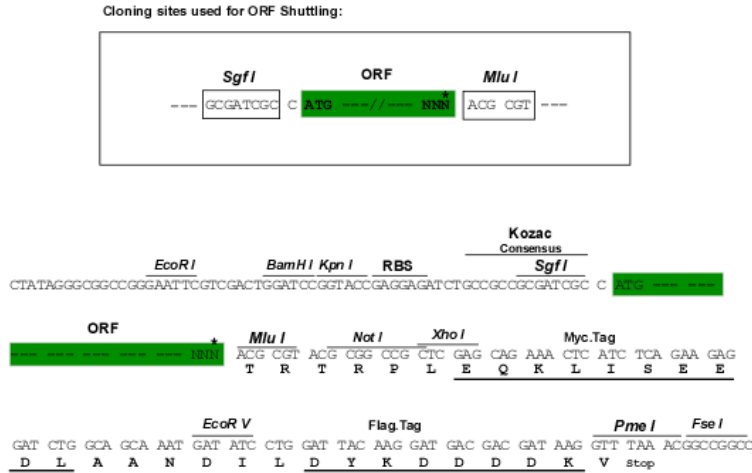
**Protein Sequence:** >RR208523 representing NM\_001108780  
 Red=Cloning site Green=Tags(s)

MGAGASAEKHSRELEKCLKEDAEDARTVKLLLLGAGESGKSTIVKQMKIIHQDGYSLEECLEFIAIY  
 GNTLQSI LAIVRAMTTLNIQYGD SARQDDARKLMHMADTIEEGTMPKEMSDIIQRLWKDSGIQACFDRAS  
 EYQLNDSAGYYLSDLERLVTGPYVPT EQDVLRSRVKTTGIIETQFSFKDLNFRMFDVGGQSRERKKWIHC  
 FEGVTCIIFIAALSAYDMVLVEDDEVNRMHESLHLFNSICNHRYPATTSIVLFLNKKDVFSEKIKKAHLS  
 ICFPDYDGPNTYDDAGNYIKVQFLELNMRRDVKEIYSHMTCATDQTQNVKVFVDAVTDIIKENLKDCGLF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

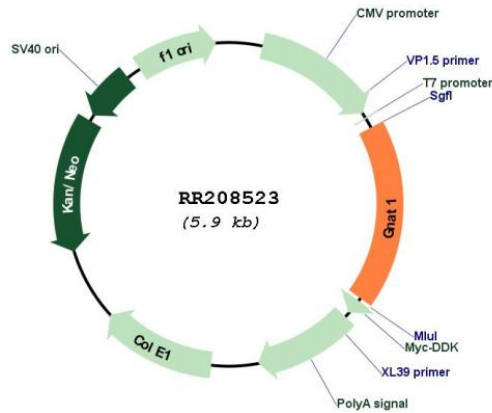
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

**Plasmid Map:**



**ACCN:** NM\_001108780

ORF Size:	1050 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. <a href="#">More info</a>
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:	<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>
RefSeq:	<a href="#">NM_001108780.2</a> , <a href="#">NP_001102250.2</a>
RefSeq Size:	2169 bp
RefSeq ORF:	1053 bp
Locus ID:	363143
Cytogenetics:	8q32
MW:	40 kDa