

Product datasheet for RR212629

Gnat2 (NM_001108950) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gnat2 (NM_001108950) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gnat2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR212629 representing NM_001108950 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGAGTGGCATCAGTGTGAGGACAAAGAAGCTTGCCAAGAGGTCCAGGGAGCTGAAAAAGAAGCTGC
AGGAGGATGCTGACAAGGAAGCCAAGACTGTCAAGCTGCTGCTTGGTGCGGGAGAGTCAGGGAAGAG
CACGATCGTCAAACAAATGAAGATCATTACCAGGATGGCTACTACCCGAAGAATGCCTAGAATTCAA
TCTGTCTATGGAACGTGTTGCAGTCCATCCTGGCTATCATCAGAGCCATGTCCACACTAGGCATTG
ACTATGCTGAACCAAGCTGTGCGGAAGCGGGAGACAGCTCAACAACCTGGCTGACTCCACCGAGGAGGG
GACCATGCCTTCCGAGCTGGTGGAGTCAACAGAAAGTTGTGGAAGGACGGTGGAGTTCAAGCCTGCTTT
GACAGAGCCGAGAGTCCAGCTCAATGACTCGGCATCTTATTACCTGAACCAGCTGGACCGGATTACAG
ACCCTGACTACCTCCCTAATGAGCAAGACGTGCTTCGATCCAGAGTCAAGACAACAGGCATCATCGAGAC
CAAGTTTTCTGTAAAAGATTTGAATTTTAGGATGTTTGACGTGGGAGGGCAGAGATCAGAGAGGAAGAAA
TGGATCCACTGCTTTGAGGGAGTCACTGCATCATTTTCTGTGCTGCTCTTAGCGCCTATGACATGGTGC
TGGTGGAGGATGACGAGGTGAATCGCATGCATGAGTCTCTACATCTGTTCAACAGCATCTGTAACCACAA
GTTCTTTGCGGCTACTTCCATTGTTCTCTTCTCAACAAGAAGGACCTCTTTGAGAAAAAATTAAGAAA
GTCCACCTCAGTATCTGTTTCCCGGAGTATGACGGCAACAATTCCTATGAGGATGCCGGGAATTACATCA
AGAGTCAGTTCCTTGACCTCAACATGAGGAAAGATGTCAAAGAGATCTACAGCCACATGACTTGTGCTAC
GGACACACAGACGTCAAATTTGTGTTTGTATGCAGTCACAGACATTATCATCAAGAAAACCTCAAGGAC
TGTGGGCTCTTT

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR212629 representing NM_001108950
 Red=Cloning site Green=Tags(s)

MGSGISAEDKELAKRSRELEKQLQEDADKEAKTVKLLLLGAGESGKSTIVKQMKIIHQDGSPEECLEFK
 SVIYGNVLQSILAIIRAMSTLGIDYAEPSCAAGRQLNLDSTEEGTMPSSELVEVIRKLWKDGGVQACF
 DRAAEFQLNDSASYLNLQDRITDPDYL PNEQDVLRSRVKTTGI IETKFSVKDLNFRMFDVGGQRSERKK
 WIHCFEGVTCIIFCAALSAYDMVLVEDDEVNRMHESLHLFNSICNHKFFAATSIVLFLNKKDLFEKIKK
 VHL S ICFPEYDGNNSYEDAGNYIKSQFLDLNMRKDVKEIYSHMTCATDTQNVKVFVDAVTDIIKENLKD
 CGLF

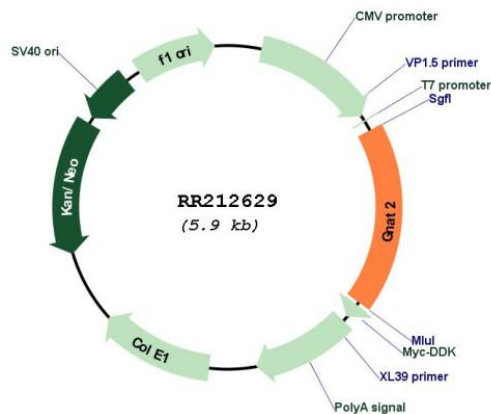
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001108950

ORF Size:	1062 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:	<ol style="list-style-type: none"> 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.
RefSeq:	NM_001108950.2 , NP_001102420.2
RefSeq Size:	1525 bp
RefSeq ORF:	1065 bp
Locus ID:	365901
Cytogenetics:	2q34
MW:	40.1 kDa