

## Product datasheet for **RR201401**

### **Gsk3a (NM\_017344) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Gsk3a (NM_017344) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gsk3a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR201401 representing NM\_017344  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAGCGGCGGGCCCTTCGGGAGGTGGCCCTGGGGCTCGGGCGGGCGGGACCAGCTCGTTTCGCGG  
 AGCCAGGCGGGAGGCGGAGGCGGTGGCGGCGCCCGGGGCTCGGCCTCCGGCCAGGAGGCACTGG  
 CGGCGGAAGGCGTCAGTCGGGGCTATGGTGGGGCGTGGGAGCCTCGAGCTCTGGGGTGGCCCCAGC  
 GGCAGCGGCGGAGGAGGCGGTCGGTGGCCCCGGCGGGCACTAGCTTCCCGCCCGCGGAGTGAAGCTGG  
 GCCGTGACAGCGGAAGGTGACCACAGTGGTAGCCACTTAGGCCAAGGCCAGAGCGTTCCCAAGAGGT  
 GGCTTACACCGACATCAAAGTGATTGGCAATGGCTCATTTCGGAGTAGTGTACCAGGCACGGCTGGCAGAA  
 ACGAGGGAAGTGGTGGCCATCAAGAAGTTCTTCAGGACAAAAGTTCAAGAACCAGAGCTGCAGATTA  
 TCGTAAGCTGGACCACTGCAATATCGTAGGCTGCGGTACTTTTCTACTCCAGTGGGAGAAGAAAGA  
 TGAGCTGTATTTAAATCTGGTGTGGAATATGTGCCCGAGACCGTGTACCGAGTGGCCCGTCACTTTACC  
 AAGGCCAAGTTGATCATCCCTATCATCTATGTCAAGGTGTACATGTACCAGCTTCCCGGAGCTTGGCCT  
 ACATCCACTCCCAAGGTGTGTGTCACCGTGACATCAAGCCCCAGAATTTGCTTGTGGACCCTGACTGTC  
 TGTCTCAAGCTCTGCGACTTTGGCAGTGCAAAGCAGTTGGTTCGGGGGAGCCCAACGTGCTACATC  
 TGTTCCTCGGACTACCGTCTCCGGAGCTCATCTTTGGAGCCACAGATTACACCTCGTCCATCGATGTGT  
 GGTGAGTGGCTGTACTGGCTGAGTCTTCTTGCCAGCCATCTTCCCTGGGGACAGTGGGGTAGA  
 CCAGCTTGTGGAGATCATCAAGTACTAGGACGCCAACCAGGGAGCAAATCCGAGAGATGAACCCTAAC  
 TACACAGAATTCAGTTCCCCAGATCAAAGCTCACCCCTGGACAAAGGTGTTCAAATCTCGGACACCAC  
 CTGAGGCCATCGCACTCTGCTTAGCCTGCTGGAGTACACTCCATCCTCAAGGCTCTCCCACTAGAGGC  
 CTGTGCCACAGTTTCTTTGATGAAGTGCAGTCTCGGAACCCAGCTCCCAACAACCGCCGCTTCCC  
 CCCCTTCTCAACTCAGTCTGTGTAAGTTTCCATCCAACCGTCTCTCAATGCCATTCTCATCCCTCCTC  
 ACTTGAGTCCCATCAGGCCCTGCTACCTCACCTCGTCTCACAAGCTTTAACTGAGACTCAGACTGG  
 CCAAGACTGGCAGGCACCTGATGCCACACCTACCTCACTAACTTTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR201401 representing NM\_017344  
 Red=Cloning site Green=Tags(s)

MSGGGPSGGPGGSGRARTSSFAEPGGGGGGGGPGGSASGPGGTGGGKASVGAMGGVGASSGGGPPS  
 GSGGGSGGPGAGTSFPPPGVKLGRDSGKVTTVVATLGQGPERSQEVAYTDIKVINGSGFVVYQARLAE  
 TRELVAIKKVLQDKRFKNRELQIMRKLHCNIVRLRYFFYSSGEKKDEL YLNLVLEYVPETVYRVARHFT  
 KAKLIIPIIYKVMYQLFRSLAYIHSQVCHRDIKPNLLVDPDAVLKLCDFGSAKQLVRGEPNVSYI  
 CSRYRRAPELIFGATDYTSSIDVWSAGCVLAELLLGQIFPGDSGVDQLVEIIKVLGTPTREREQIREMNP  
 YTEFKFPQIKAHPWTKVFKSRTPEEIALCSSLLEYTPSSRSLPLEACAHSFFDELRSGLTQLPNNRPLP  
 PLFNFSPGELSIQPSLNAILIPPHLRSPSPATLTSSSQALTETQTGDWQAPDATPTLTNNS

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_017344

**ORF Size:** 1449 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:**

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\\_017344.1](#), [NP\\_059040.1](#)

**RefSeq Size:** 2155 bp

**RefSeq ORF:** 1452 bp

**Locus ID:** 50686

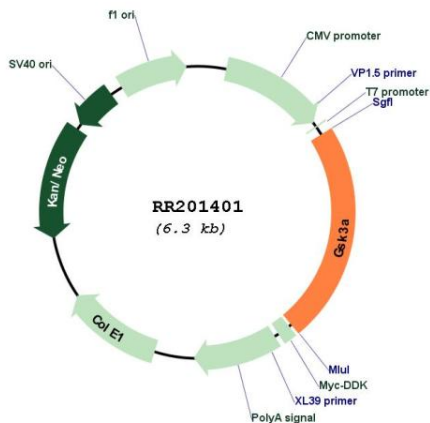
**UniProt ID:** [P18265](#)

**Cytogenetics:** 1q21

MW: 51 kDa

Gene Summary: protein-serine kinase; may mediate hormonal control of several regulatory proteins including glycogen synthase and the transcription factor c-jun [RGD, Feb 2006]

**Product images:**



Circular map for RR201401