

## Product datasheet for **RR205703**

### **Gk (NM\_024381) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Gk (NM_024381) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gk
Synonyms:	ASTP; Gyk
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR205703 representing NM\_024381  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCAGCCGCGAAGAAAGCAGTTCTGGGGCCATTGGTGGGAGCAGTGGACCAGGTACCAGCTCGACAC  
 GTTTTTGGTTTTCAATTCAAAAACAGCTGAACCTCTTAGTCATCATCAAGTAGAAATAAAAACAGGAATT  
 CCCAAGAGAAGGATGGGTAGAACAAGATCCGAAGGAAATCCTGCAGTCTGTTTATGAATGTATAGAGAAA  
 ACATGTGAGAAACTTGGACAGCTCAATATTGATATTTCCAACATCAAAGCTATTGGTGTGAGCAACCAGA  
 GGGAAACCACAGTAGTCTGGGACAAGCTAACTGGAGAGCCGCTCTACAATGCTGTGGTGTGGCTTACCT  
 AAGAACCCTACTGTTGAGAACTTAGTAAAAGAATCCGGGAAATAATAATTTTGTCAAGTCCAAG  
 ACAGGCCCTCCACTTAGCACTTACTTCAGTGCAGTGAACTTCGTTGGCTCCTCGACAATGTAAAAAGG  
 TCCAAGAGGCTGTGAAGAAAATAGAGCTCTTTTGGGACCATTGATTCATGGCTATTTGGAGTTTGAC  
 AGGGGGAATCAATGGCGGTGTTCACTGTACAGATGAACAAATGCAAGCAGGACGATGCTTTTTAACATT  
 CATTCTTTGGAATGGGATAAAGAGCTCTGCGAATTTTTTGGAAATCCAATGGAAATCTTCCCAATGTTT  
 GGAGTTCTTCTGAGATCTATGGCCTAATGAAAGCTGGGGCCTTGAAGGTGTGCCAATATCTGGGTGTT  
 GGGGGACCACTGCTGCTTTGGTGGGACAAATGTGCTTCCAGGATGGACAGGCCAAAAACCGTATGGA  
 ACAGGGTGCTTCTACTGTGTAAACACGGGCCATAAGTGTGTATTTTCTGAACATGGCCTTTTGACAACTG  
 TGGCTTATAAACTTGGCAGAGACAACTGTGTATTATGCATTAGAAGGTTCTGTAGCTATAGCTGGTGC  
 TGTAATCCGCTGGTTAAGAGACAACCTTGAATATTAAGTCCTGAAGAAATGAAAACTTGCTAAA  
 GAAGTAGTACTTCTTATGGCTGCTACTTTGTTCCAGCATTTCAGGGTTATATGCACCTTATTGGGAGC  
 CTAGTGC AAGAGGATCATCTGTGGACTCACTCAGTTCACCAATAAATGCATATCGCTTTTGCTCATT  
 AGAAGCTGTTTTGTTTTCAAACCCGAGAGATTTTGGATGCCATGAACCGTGACTGTGGAATCCCACTCAGC  
 CATTGTCAGGTAGATGGAGGAATGACCAGCAATAAAATCTTATGCAGCTACAAGCAGACATTCTGTATA  
 TTCCAGTAGTGAAGCCCTCCATGCCGAGACAAGTCTAGGAGCTGCCATGGCAGCTGGGGCTGCAGA  
 GGGGGTTGGTGTCTGGAGTCTTGAACCTGAGGATTTGTCAGCTGTCAAAATGGAGCGGTTGCAACCTCAG  
 ATCAATGCTGAAGAAAGTAAATCCGTTACTCCACCTGGAAGAAAGCTGTGATGAAGTCCATTGTTGGG  
 TTACAACCTCAATCTCTGAAAGTGGTATCCCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR205703 representing NM\_024381  
 Red=Cloning site Green=Tags(s)

MAAAKKAVLGPLVGAVDQGTSSSTRFLVFNSKTAELL SHHQVEIKQEFREGWVEQDPKEILQSVYECIEK  
 TCEKLGQLNIDISNIKAIGVSNQRETTVVWDKLTGEPLYNNAVWLDLRTQSTVEKLSKRIPGNNNFVKSK  
 TGLPLSTYFSAVKLRWLLDNVKKVQEAVEENRALFGTIDSWLIWLSLTGGINGGVHCTDVTNASRTMLFNI  
 HSLEWDKELCEFFGIPMEILPNVRSSEIYGLMKAGALEGVPI SGCLGDQSAALVQMCQFQDQAKNTYG  
 TGCFLCNTGHKCVFSEHGLLTTVAYKLRDKPVVYALEGSVAIAGAVIRWLRDNLGIKSSEEIEKLAK  
 EVGTSYGCYFVPAFSGLYAPYWEPSARGIICGLTQFTNKCHIAFAALEAVCFQTREILDAMNRDCGIPLS  
 HLQVDGGMTSNKILMQLQADILYIPVVKPSPMETTALGAAMAAGAAEAGVGVWSLEPEDLSAVTMERFEPQ  
 INAESEIRYSTWKKAVMKSIGWVTTQSPESGIP

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



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

**ACCN:** NM\_024381

**ORF Size:** 1572 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\\_024381.2](#), [NP\\_077357.2](#)
**RefSeq Size:** 4107 bp

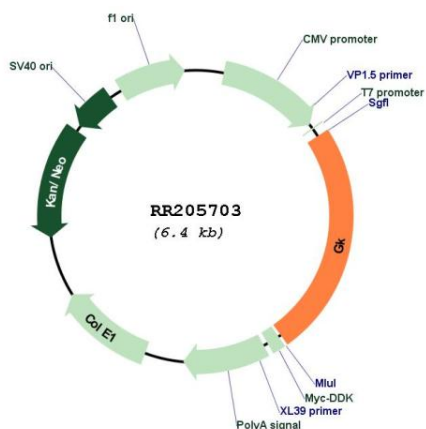
**RefSeq ORF:** 1575 bp

**Locus ID:** 79223

**UniProt ID:** [Q63060](#)

Cytogenetics: Xq21  
 MW: 57.5 kDa  
 Gene Summary: cytosolic protein that increases nuclear binding of activated glucocorticoid receptor [RGD, Feb 2006]

**Product images:**



Circular map for RR205703