

## Product datasheet for **RR203556**

### Gk2 (NM\_001004077) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gk2 (NM_001004077) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gk2
Synonyms:	Gk-rs2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR203556 representing NM\_001004077  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCAGACTCCAAGGAAACCCCTGAGGAGCCGTTGGTGGGAGCGGTGGTCCAGGGAACCAACTCCACTC  
 GCTTTCTGGTTTTCAATCCCAAAACAGCAGAAGTCTAGTCGGCAGTATCAGGTGGAAGTACACAAGAGTA  
 TCCGAAAGAAGGATGGGTGGAGGAAGATCCCAAGGAAATCCTTCAGTCTGTCTATGAATGCATAGCGAAA  
 ACTTGCGAGAACTTACTGAGGCGAACATTGATACTTCCAAGATTAAGCTATCGGCGTGAGTAACCAGC  
 GGGAAACCACTGTGGTCTGGGACAAGTTCACGGGAGAGCCCTATAACAATGCCGTGGTGTGGCTTGTATCT  
 CAGAACCAGTCTACTGTGGAGAGTCTCAATAAGAAAATCCAGGGAATAGCAACTTTGTCAAGTCTAAG  
 ACAGGCCCTCCACTTAGCACTTACTTCAGTGTGTGAAACTGCGGTGGATGCTGGACAACCTAAGACCCA  
 TTCAAAGGCTGTTGAGGAAGACAGAGCCCTATTTGGAACCATCGACTCGTGGCTCATCTGGTGTATGAC  
 CGGAGGAGTCAACGGAGGCATCCACTGTACCGATGTAACAAATGCGAGCAGAACGATGCTTTTCAACATC  
 CACTCTTTGGAATGGGATAAAGAACTCTGTAAATTTTTGAAATTTCCAATGAGCATCCTCCCAAATGTAC  
 GCAGTTCTCCGAGATCTACGGCCAGATGACATCCGGGGCTTTGGAAGGCGTGCCAAATATCCGGATGTT  
 GGGGGATCAGTCTGCTGCTTTAGTGGGACAAATGTGCTTCCAGGAAGGTCAAGCCAAAAACAGTACGGA  
 ACCGGATGTTTTTACTATGCAATACAGGCCAGAAATGTGATTTTTCTGAACATGGCCTTCTGACTACAG  
 TGGCTTACAACTAGGCAAAAATAAGCCAGCTTTTTATGCCTTAGAAGGCTCTGTTGCTATAGCTGGTGC  
 TGTTATTCGCTGGCTAAGAGACAATTCGAAGTATAACGTCCTCGGGGAAGTTGAAGATCTTGAAGA  
 GAGGTAGGCACGGCTACGGCTGCTACTTTGTCCAGCCTTTTCTGGGTGTATGCACCTTACTGGGAAC  
 CCAGTGCAAGAGGATAATCTGTGGTCTCACTCAGTTCACCAACAAATGCCATATTGCCTTTGCTGCATT  
 AGAAGCCGTTTGTTCCAAACCCGAGAGATTGTGGATGCCATGAACCGCGACTGTGGGATCCACTCAGT  
 CATTTCGGGTAGATGGAAGAATGACCAACAACAAGATTCTCATGCAGCTCCAGGAGATATTCTGCACA  
 TTCCGGTAGTTAAATCTGTTATGCCGAAACCACAGCCCTGGGAGCAGCCATGGCAGCCGGAGCTGCAGA  
 AGGGATAGATGTTGGAGTATTGAACCCGAAGACTTGTCTTCAATGTTAATGGAACGATATGAACCACAA  
 ATCCAAGCCACAGAGAGTAAATTCGTTTTTCAACATGGAAGAGAGCAGTATGAAGTCAATGGGTTGGG  
 TTACAGCCAAGGATCCTGAAAGTAAAGTAAACCTGTCTCGCTTGCCTGCCCTTGGGGTTTTTATAGT  
 GAGTAGCATGACGTTATAATTGGAGCAAGGTGTATCTCATACGCTGAAGAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR203556 representing NM\_001004077  
 Red=Cloning site Green=Tags(s)

MADSKETPEEPLVGA VVQGTNSTRFLVFNPKTAE LVGSHQVELTQEYPKEGWVEEDPKEILQSVYECIAK  
 TCEKLTEANIDTSKIKAI GVSNQRETTVVWDKFTGEPL YNAVWLDLRTQSTVESLNKKIPGNSNFVSKS  
 TGLPLSTYFSAVKLRWMLDNL RPIQKAVEEDRALFGTIDSWLIWCMTGGVNGGIHCTDVTNARSMTL FNI  
 HSLEWDKELCKFFEIPMSILPNVRSSSEIYGQMTSGALEGVPI SGCLGDQSAALVGQMCVFQEQAKNTYG  
 TGCFLLCNTGQKCVFSEHGLLTTVAYKLGKNKPAFYALEGSVAIAGAVIRWLRDNFELITSSGEVEDLAR  
 EVGTAYGCFVPAFSGLYAPYWEPSARGIICGLTQFTNKCHIAFAALEAVCFQTR EIVDAMNRDCGIPLS  
 HLRVDGRMTNKKILMQLQADILHIPVVKSVMPETTALGAAMAAGAAEGIDVWSIEPEDLSSMLMERYEPQ  
 IQATESEIRFSTWKRAVMKSMGWVTAKDPE SNANPVFACLPLGFFIVSSMTLLIGARCISYAE E

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001004077

**ORF Size:** 1662 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\\_001004077.1](#), [NP\\_001004077.1](#)

**RefSeq Size:** 1876 bp

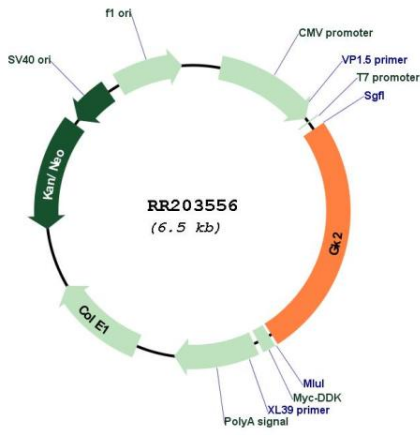
**RefSeq ORF:** 1665 bp

**Locus ID:** 289481

**Cytogenetics:** 14p22

MW: 61 kDa

Product images:



Circular map for RR203556