

## Product datasheet for **MR201980**

### Guk1 (NM\_008193) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Guk1 (NM\_008193) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Guk1  
**Synonyms:** AA409738; AL033299; AL033300; AV026611; Gmk; Guk-1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR201980 representing NM\_008193  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGCGGGCGCCGCTGGTCGGGCTGGCGGTGGCCGCCCTGGTTCGGTCCCCGCGGACGGCATGGCAG  
GACCTAGGCCAGTAGTGCTGAGCGGGCCGTAGGGGCAGGAAGAGCACTCTGCTCAAGAAGCTGTTCCA  
GGAGCACAGCAGCATCTTCGGCTTCAGCGTGTCTCATACTACAAGGAACCCAGACCTGGTGAAGAAGAT  
GGCAAAGATTACTACTTTGTGACCAGGGAGATGATGCAGCGTGATATTGCAGCAGGGGACTTCATTGAGC  
ATGCTGAGTTCTCAGGGAACCTGTACGGACAAGCAAGGAAGCTGTTTCGGGCTGTGCAGGCCATGAACCG  
CATCTGCGTGCTAGATGTCGACCTACAAGGTGTGCGCAGCATCAAGAAGACTGATCTGTGTCCCATCTAC  
ATCTTTGTGCAGCCTCCCTCGCTGGACGTGCTGGAGCAACGACTGCGACTGCGCAACACTGAGACTGAGG  
AGAGTCTGGCAAAGCGGCTGGCAGCTGCACGGACAGACATGGAGAGCAGCAAGGAGCCTGGCTTGTTTGA  
CCTGGTGATCATCAATGACGACCTGGATAAAGCCTATGCAACCCTGAAGCAGGCGCTCTCTGAGGAAATC  
AAGAAAGCACAGGGAAGTGGCCACGCC

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR201980 representing NM\_008193  
Red=Cloning site Green=Tags(s)

```
MLRRPLVGLAVAALGRVPADGMAGPRPVVLSGSPGAGKSTLLKKLFQEHSSIFGFVSHTTRNPRPGEED
GKDYFFVTREMMQRDIAAGDFIEHAEFSGNLYGTSKEAVRAVQAMNRCVLDVDLQGVRSIKKTDLCPYI
IFVQPPSLDVLQRLRLRNTETEEESLAKRLAAARTDMESKEPGLFDLVIINDDLDKAYATLKQALSEEI
KKAQGTGHA
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9088\\_h04.zip](https://cdn.origene.com/chromatograms/mm9088_h04.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_008193

**ORF Size:** 657 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\\_008193.3](#), [NP\\_032219.2](#)

**RefSeq Size:** 1098 bp

**RefSeq ORF:** 660 bp

**Locus ID:** 14923

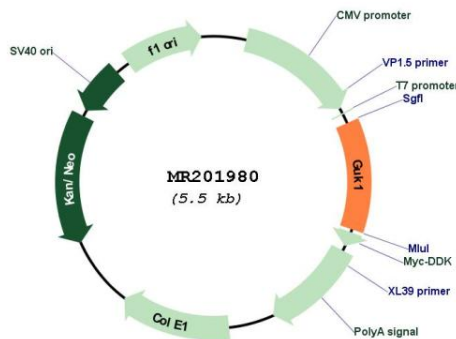
**UniProt ID:** [Q64520](#)

**Cytogenetics:** 11 B1.3

**MW:** 24 kDa

**Gene Summary:** Essential for recycling GMP and indirectly, cGMP.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR201980