

## Product datasheet for **MG218206**

### Guk1 (NM\_001159410) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Guk1 (NM\_001159410) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Guk1  
**Synonyms:** AA409738; AL033299; AL033300; AV026611; Gmk; Guk-1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG218206 representing NM\_001159410  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAGGCTGCAACACATCAAGTAGGCATGGCAGGACCTAGGCCAGTAGTGCTGAGCGGGCCGTAGGGG  
 CAGGGAAGAGCACTCTGCTCAAGAAGCTGTTCCAGGAGCACAGCAGCATCTTCGGCTTCAGCGTGTCTCA  
 TACTACAAGGAACCCACGACCTGGTGAAGAAGATGGCAAAGATTACTACTTTGTGACCAGGGAGATGATG  
 CAGCGTGATATTGCAGCAGGGGACTTCATTGAGCATGCTGAGTTCTCAGGGAACCTGTACGGACAAGCA  
 AGGAAGCTGTTTCGGGCTGTGCAGGCCATGAACCGCATCTGCGTGCTAGATGTCGACCTACAAGGTGTGCG  
 CAGCATCAAGAAGACTGATCTGTGTCCCATCTACATCTTTGTGCAGCCTCCCTCGCTGGAGCTGCTGGAG  
 CAACGACTGCGACTGCGCAACACTGAGACTGAGGAGAGTCTGGCAAAGCGGCTGGCAGCTGCACGGACAG  
 ACATGGAGAGCAGCAAGGAGCCTGGCTTGTGGACCTGGTATCAATGACGACCTGGATAAAGCCTA  
 TGCAACCTGAAGCAGGCGCTCTCTGAGGAAATCAAGAAAGCACAGGGAAGTGGCCACGCC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >MG218206 representing NM\_001159410  
 Red=Cloning site Green=Tags(s)

MEAATHQVGMAGPRPVVLSGSPGAGKSTLLKKLFQEHSSIFGFSVSHTRNPRPGEEDGKDYYFVTREMM  
 QRDIAAGDFIEHAEFSGNLYGTSKEAVRAVQAMNRCVLDVLDLQGVRSIKKTDLCPIYIFVQPPSLDVLE  
 QRLRLRNTETEEESLAKRLAAARTDMESSEKPEGLFDLVIINDDLKAYATLKQALSEEIKKAQGTGHA

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



**Cloning Scheme:**


**ACCN:** NM\_001159410

**ORF Size:** 621 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\\_001159410.1](#), [NP\\_001152882.1](#)

**RefSeq Size:** 935 bp

**RefSeq ORF:** 624 bp

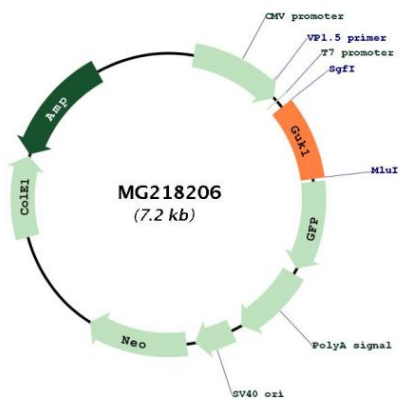
**Locus ID:** 14923

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

**Cytogenetics:** 11 B1.3

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

**Product images:**



Circular map for MG218206