

Product datasheet for **MR218206**

Guk1 (NM_001159410) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Guk1 (NM_001159410) 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: >MR218206 representing NM_001159410
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGCTGCAACACATCAAGTAGGCATGGCAGGACCTAGGCCAGTAGTGCTGAGCGGGCCGTAGGGG
CAGGGAAGAGCACTCTGCTCAAGAAGCTGTTCCAGGAGCACAGCAGCATCTTCGGCTTCAGCGTGTCTCA
TACTACAAGGAACCCACGACCTGGTGAAGAAGATGGCAAAGATTACTACTTTGTGACCAGGGAGATGATG
CAGCGTGATATTGCAGCAGGGGACTTCATTGAGCATGCTGAGTTCTCAGGGAACCTGTACGGGACAAGCA
AGGAAGCTGTTCCGGCTGTGCAGGCCATGAACCGCATCTGCGTGCTAGATGTCGACCTACAAGGTGTGCG
CAGCATCAAGAAGACTGATCTGTGTCCCATCTACATCTTTGTGCAGCCTCCCTCGCTGGAGCTGCTGGAG
CAACGACTGCGACTGCGCAACACTGAGACTGAGGAGAGTCTGGCAAAGCGGCTGGCAGCTGCACGGACAG
ACATGGAGAGCAGCAAGGAGCCTGGCTTGTGTTGACCTGGTATCATCAATGACGACCTGGATAAAGCCTA
TGCAACCTGAAGCAGGCGCTCTCTGAGGAAATCAAGAAAGCACAGGGAAGTGGCCACGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR218206 representing NM_001159410
Red=Cloning site Green=Tags(s)

MEAATHQVGMAGPRPVVLSGSPGAGKSTLLKKLFQEHSSIFGFSVSHTRNPRPGEEDGKDYFVTREMM
QRDIAAGDFIEHAIEFSGNLYGTSKEAVRAVQAMNRCVLDVLDLQGVRSIKKTDLCPIYIFVQPPSLDYLE
QRLRLRNTETEEESLAKRLAAARTDMESSKEPGLFDLVIINDDLKAYATLKQALSEEIKKAQGTGHA

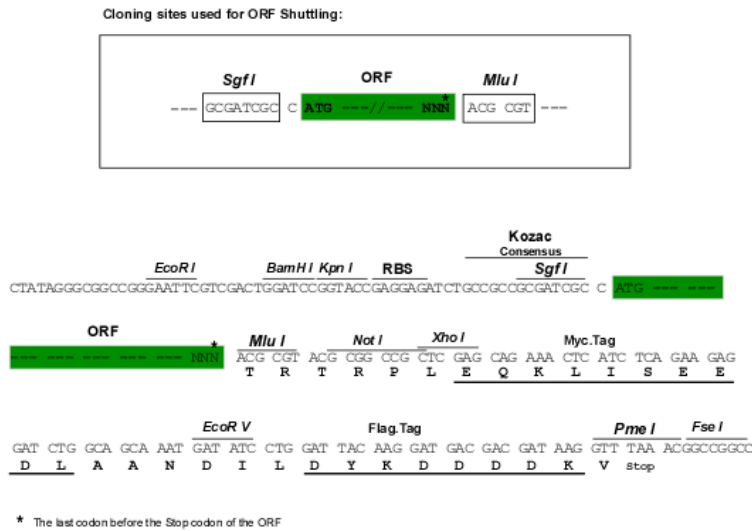
TRTRPLEQKLISEEDLAANDILDYKDDDDKV



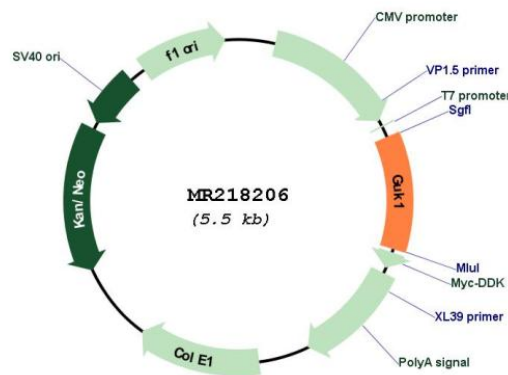
[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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:	<ol style="list-style-type: none">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:	<u>NM_001159410.1</u> , <u>NP_001152882.1</u>
RefSeq Size:	935 bp
RefSeq ORF:	624 bp
Locus ID:	14923
UniProt ID:	<u>Q64520</u>
Cytogenetics:	11 B1.3
MW:	23.3 kDa
Gene Summary:	Essential for recycling GMP and indirectly, cGMP.[UniProtKB/Swiss-Prot Function]