

Product datasheet for **MG201980**

Guk1 (NM_008193) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Guk1 (NM_008193) 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:	>MG201980 representing NM_008193 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGCGGGCGCCGCTGGTCGGGCTGGCGGTGGCCGCCCTGGTTCGGTCCCCGCGGACGGCATGGCAG
GACCTAGGCCAGTAGTGCTGAGCGGGCCGTCAGGGGCAGGAAGAGCACTCTGCTCAAGAAGCTGTTCCA
GGAGCACAGCAGCATCTTCGGCTCAGCGTGTCTCATACTACAAGGAACCCAGACCTGGTGAAGAAGAT
GGCAAAGATTACTACTTTGTGACCAGGGAGATGATGCAGCGTGATATTGCAGCAGGGGACTTCATTGAGC
ATGCTGAGTTCTCAGGGAACCTGTACGGACAAGCAAGGAAGCTGTTTCGGGCTGTGCAGGCCATGAACCG
CATCTGCGTGCTAGATGTCGACCTACAAGGTGTGCGCAGCATCAAGAAGACTGATCTGTGTCCCATCTAC
ATCTTTGTGCAGCCTCCCTCGCTGGACGTGCTGGAGCAACGACTGCGACTGCGCAACACTGAGACTGAGG
AGAGTCTGGCAAAGCGGCTGGCAGCTGCACGGACAGACATGGAGAGCAGCAAGGAGCCTGGCTTGTTTGA
CCTGGTGATCATCAATGACGACCTGGATAAAGCCTATGCAACCCTGAAGCAGGCGCTCTCTGAGGAAATC
AAGAAAGCACAGGGAAGTGGCCACGCC

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG201980 representing NM_008193
 Red=Cloning site Green=Tags(s)

MLRRPLVGLAVALGRVPADGMAGPRPVVLSGSPGAGKSTLLKKLFQEHSSIFGFVSHTTRNPRPGEED
 GKDYFFVTREMMQRDIAAGDFIEHAEFSGNLYGTSKEAVRAVQAMNRCVLDVDLQGVRSIKKTDLCPIY
 IFVQPPSLDVLEQRLRLRNTETEEESLAKRLAAARTDMESKEPGLFDLVIINDDLKAYATLKQALSEEI
 KKAQGTGHA

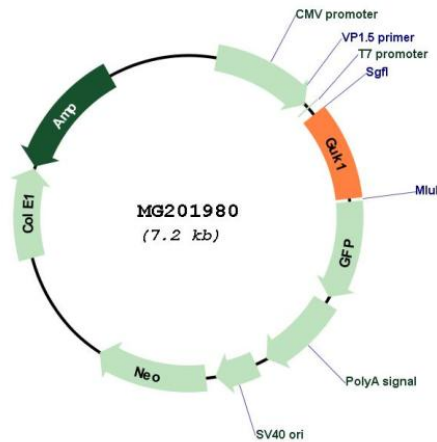
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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:	<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:	NM_008193.3 , NP_032219.2
RefSeq Size:	1098 bp
RefSeq ORF:	660 bp
Locus ID:	14923
UniProt ID:	Q64520
Cytogenetics:	11 B1.3
Gene Summary:	Essential for recycling GMP and indirectly, cGMP.[UniProtKB/Swiss-Prot Function]