

## Product datasheet for **MG201730**

### **Gins2 (NM\_178856) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Tag:** TurboGFP  
**Symbol:** Gins2  
**Synonyms:** 2210013I18Rik; 4833427B12Rik; AI323585; Pfs2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**ORF Nucleotide Sequence:** >MG201730 representing NM\_178856  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGATGCGGCCGAGGTGGAGTTTTGGCCGAAAAGGAGTTGGTGACTATCATCCCGAACTTCAGTCTGG  
ACAAGATCTACCTGATCGGGGGGACCTGGGGCCCTTCAACCCCGGCTTACCCGTGGACGTGCCCTGTG  
GCTGGCCATTAACCTGAAACAGAGACAGAAGTGCCGCCTGTACCTCCGGAATGGATGGATGTGGAGAAA  
CTGGAACAGATGCGTGATGAGGAGCGGAAGGAGGAGACATTACCCAGTGCCAGCCCGCACTACATGG  
AGATCACGAAAGCTCCTGCTGAATCATGCTTCTGACAACATCCCAAAGCAGACACCATCCGGACTGAT  
CAAAGACCTGTGGACACACGCATGGCCAAGCTTCGAGTGTCTGCTGACAGTTTTGTGCGGCAGCAAGAG  
GCACATGCCAAGCTGGACAACCTGACCTTGATGGAGATCAGCAGCAGCGGGCCTTCTCACCCAGGCC  
TCAACCACATGTACAAGCTCCGCACAAACCTCCAGCCCTCCGAGAGCACCCAGTCGCAGGACTTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG201730 representing NM\_178856  
Red=Cloning site Green=Tags(s)

MDAAEVEFLAEKELVTIIPNFSLDKIYLIIGDDLGFNPLPVDVPLWLA INLKQRQKCRLLPPEWMDVEK  
LEQMRDEERKEETFTPVSPHYMEITKLLLNHASDNIPKADTIRTLIKDLWDTRMAKLRVSADSFVRQQE  
AHAKLDNLTLMETSSGAFLTQALNHMYKLRNLQPSESTQSQDF

**TR**TRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI



**Cloning Scheme:**


**ACCN:** NM\_178856

**ORF Size:** 555 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_178856.1](#), [NP\\_849187.1](#)

RefSeq Size: 1061 bp

RefSeq ORF: 558 bp

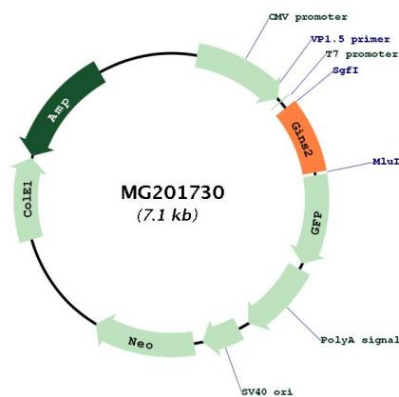
Locus ID: 272551

UniProt ID: [Q9D600](#)

Cytogenetics: 8 E1

**Gene Summary:** The GINS complex plays an essential role in the initiation of DNA replication, and progression of DNA replication forks. GINS complex seems to bind preferentially to single-stranded DNA (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MG201730