

## Product datasheet for **MG202743**

### Fam173a (NM\_145410) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Tag:** TurboGFP  
**Symbol:** Fam173a  
**Synonyms:** MGC6974  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**ORF Nucleotide Sequence:** >MG202743 representing NM\_145410  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGATCAGGACGACCCAGCCGAAGCGTTGACTGAGCTACGCGAGAAGCGGCTGGGCTTGCTGGAGATAG  
TGCAAGCGGCGGCAGGCTCGGGATTGGCCGTCTATACTATATGGGCGCTGCTGCTGCAGCCGGGCTTCCG  
CCGGGTGCCTCTGAGGCTGCAGGTGCCCTACGTTGGCGCAGTGCCCGGCAGGTTGAGAACGTGCTGTCA  
CTGTTGCGAGGCCCCCTGGAAAAATGGTGGATCTAGGCTCTGGTGATGGCAGGATCGTGTGGCGGCC  
ACCAATGTGGTCTCCGTCCAGCTATGGGATATGAGCTGAACCCGTGGCTTGTTGGGACTTGACCGCTGCA  
TGCCCTGGAGAGCCGGTTGTTCTGCGAGTGTCTGCTACCATCGAAAAGATCTCTGGAAGGTGAGCCTCAGG  
GACTGTCACAACGTGTCTGTGTTCTGGCTCCAGTGTCTCCAAGTGTGGAGGACAACTGCAAGCAG  
AGCTCCCTGTGGGGCCCGTGGTATCTGGACGATCCCCCTTCCACCTGGCAGCCTGTAGCTGTGGT  
GGGCGAGGGCACTGACAGATTTGGGCCTATGATGTCCATGGTTCTGGGCAACTGTGTCTTCTTGTGG  
GTGCCATCAAGCCATCCCAGAGTCCAGTTCTACCTTAGTCCCTAGAGCCCCTGTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG202743 representing NM\_145410  
Red=Cloning site Green=Tags(s)

MDQDDPAEALTELREKRLGLLEIVQAAAGSGLAVYTIWALLQPGFRRVPLRLQVPYVGASARQVENVLS  
LLRGRPGKMVDLGSDDGRIVLAAHQCLRPAMGYELNPWLVGLARLHAWRAGCSASVCYHRKDLWKVSLR  
DCHNVSVFLAPSVLQLEDKLAELPVGARVVSGRFPLPTWQPVAVVVGEGETDRVWAYDVHGSPTVSSCG  
VPIKAIPSSSTLVPRAPV

TRTRPLE - GFP Tag - V



**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_145410

**ORF Size:** 687 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:**

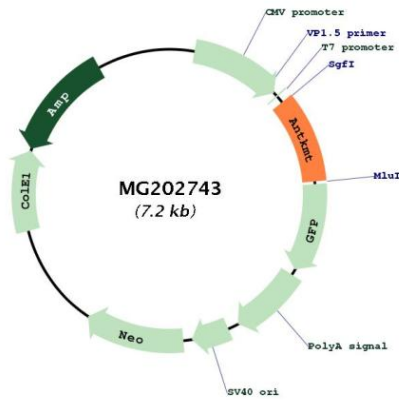
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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\\_145410.4](#), [NP\\_663385.2](#)

RefSeq Size:	817 bp
RefSeq ORF:	690 bp
Locus ID:	214917
UniProt ID:	<a href="#">Q501J2</a>
Cytogenetics:	17 A3.3
Gene Summary:	S-adenosyl-L-methionin-dependent protein-lysine N-methyltransferase.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG202743