

# **Product datasheet for MG225218**

## Ost4 (NM\_024460) Mouse Tagged ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

**Product Name:** Ost4 (NM\_024460) Mouse Tagged ORF Clone

Tag: TurboGFP

Symbol: Ost4

Synonyms: 2310016E02Rik

Mammalian Cell Neomycin

Selection:

**Vector:** pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >MG225218 representing NM\_024460

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

TCTATCACTACGTGGCAGTAAACAACCCCAAGAAGCAGGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG225218 representing NM\_024460

Red=Cloning site Green=Tags(s)

MITDVQLAIFANMLGVSLFLLVVLYHYVAVNNPKKQE

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-Mlul



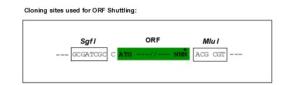
**OriGene Technologies, Inc.** 9620 Medical Center Drive, Ste 200

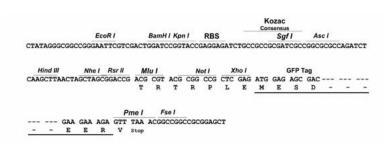
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

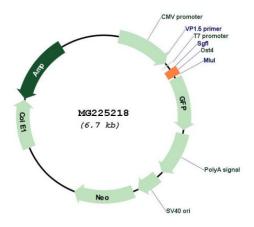


### **Cloning Scheme:**





#### Plasmid Map:



**ACCN:** NM\_024460

ORF Size: 111 bp



#### Ost4 (NM\_024460) Mouse Tagged ORF Clone - MG225218

**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 024460.4, NP 077780.3

RefSeq Size: 528 bp
RefSeq ORF: 114 bp
Locus ID: 67695
UniProt ID: Q99LX8
Cytogenetics: 5 B1

**Gene Summary:** Subunit of the oligosaccharyl transferase (OST) complex that catalyzes the initial transfer of a

defined glycan (Glc(3)Man(9)GlcNAc(2) in eukaryotes) from the lipid carrier dolichol-

pyrophosphate to an asparagine residue within an Asn-X-Ser/Thr consensus motif in nascent

polypeptide chains, the first step in protein N-glycosylation. N-glycosylation occurs

cotranslationally and the complex associates with the Sec61 complex at the channel-forming translocon complex that mediates protein translocation across the endoplasmic reticulum (ER). All subunits are required for a maximal enzyme activity. Specifically involved in

maintaining stability of STT3A-containing OST complexes.[UniProtKB/Swiss-Prot Function]