

Product datasheet for **MG200048**

Nop10 (NM_025403) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Tag: TurboGFP
Symbol: Nop10
Synonyms: I110036B12Rik; Nola3; NOP10P
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG200048 representing NM_025403
Red=Cloning site Blue=ORF Green=Tags(s)

GACGTTGTATACGACTCCTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGGCGCGCC

ATGTTTCTCCAATATTACCTCAACGAGCAGGGCGATCGCGTTTATACGCTGAAGAAATTTGACCCTATGG
GACAACAGACTTGCTCCGCCATCCTGCTCGGTTCTCCCCAGATGACAAATATTCAAGACACCGAATCAC
CATCAAGAAACGTTCAAGGTGCTCATGACCCAGCAACCGCGTCTGTCCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG200048 representing NM_025403
Red=Cloning site Green=Tags(s)

MFLQYYLNEQGDRVYTLKFDPMGQQTCSAHPARFSPDDKYSRHRITIKRKFVLMTQQPRPVL

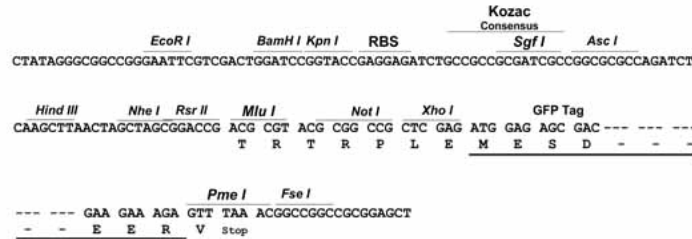
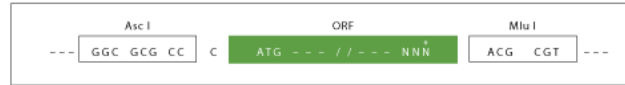
TRTRPLE - GFP Tag - V

Restriction Sites: AscI-MluI



Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_025403

ORF Size: 192 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_025403.4, NP_079679.1</u>
RefSeq Size:	695 bp
RefSeq ORF:	195 bp
Locus ID:	66181
UniProt ID:	<u>Q9CQS2</u>
Cytogenetics:	2 E3
Gene Summary:	Required for ribosome biogenesis and telomere maintenance. Part of the H/ACA small nucleolar ribonucleoprotein (H/ACA snoRNP) complex, which catalyzes pseudouridylation of rRNA. This involves the isomerization of uridine such that the ribose is subsequently attached to C5, instead of the normal N1. Each rRNA can contain up to 100 pseudouridine ("psi") residues, which may serve to stabilize the conformation of rRNAs. May also be required for correct processing or intranuclear trafficking of TERC, the RNA component of the telomerase reverse transcriptase (TERT) holoenzyme (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG200048