

Product datasheet for **RG205931**

MT1F (NM_005949) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MT1F (NM_005949) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: MT1F

Synonyms: MT1

Mammalian Cell Selection: Neomycin

Vector: pCMV6-AC-GFP (PS100010)

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

ORF Nucleotide Sequence: >RG205931 representing NM_005949
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACCCCAACTGCTCCTGCGCCGCTGGTGTCTCCTGCACCTGCGCTGGTTCTGCAAGTGCAAAGAGT
GCAAATGCACCTCCTGCAAGAAGAGCTGCTGCTCCTGCTGCCCGTGGGCTGTAGCAAGTGTGCCAGGG
CTGTGTTTGCAAAGGGCGTCAGAGAAGTCAGCTGCTGCGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG205931 representing NM_005949
Red=Cloning site Green=Tags(s)

MDPNCSCAAGVSCTCAGSCKCKECKTSCKKSCCSCCPVGCSCKAQGCVCKGASEKCSCCD

TRTRPLE - GFP Tag - V

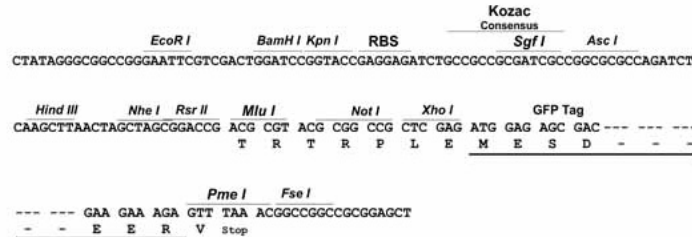
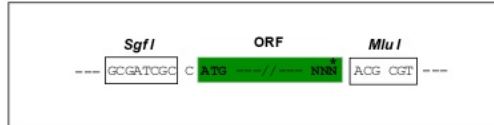
Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Cloning sites used for ORF Shutting:


ACCN: NM_005949

ORF Size: 183 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:

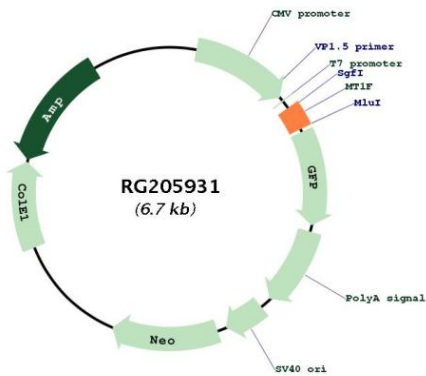
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_005949.4](#)

RefSeq Size: 468 bp
 RefSeq ORF: 186 bp
 Locus ID: 4494
 UniProt ID: [P04733](#)
 Cytogenetics: 16q13

Gene Summary: Metallothioneins have a high content of cysteine residues that bind various heavy metals; these proteins are transcriptionally regulated by both heavy metals and glucocorticoids. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG205931