

Product datasheet for **RG235430**

MT1G (NM_001301267) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MT1G (NM_001301267) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: MT1G
Synonyms: MT1; MT1K
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG235430 representing NM_001301267.
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGACCCCAACTGCTCCTGTGCCGCTGCAGGTGTCTCTGCACCTGCGCCAGCTCCTGCAAGTGCAAA
GAGTGCAAATGCACCTCCTGCAAGAAGAGCTGCTGCTCCTGTGCCCTGTGGGCTGTGCCAAGTGTGCC
CAGGGCTGCATCTGCAAAGGGGCATCGGAGAAGTCAGCTGCTGCGCC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG235430
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MDPNCSCAAAGVSCTCASSCKCKECKTSCCKSCCSCPVGCAKCAQGCICKGASEKSCCA
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: SgfI-MluI



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Cloning Scheme:

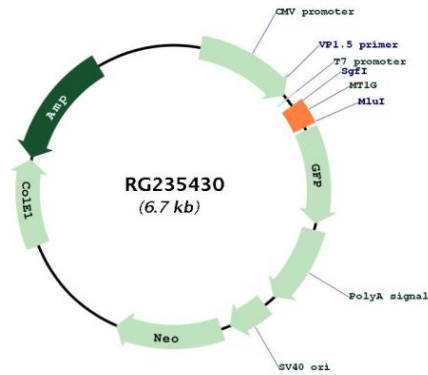

- ACCN:** NM_001301267
- ORF Size:** 186 bp
- OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each 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).
- RefSeq:** [NM_001301267.2](#)
- RefSeq Size:** 423 bp
- RefSeq ORF:** 189 bp
- Locus ID:** 4495
- UniProt ID:** [P13640](#)
- Cytogenetics:** 16q13

Protein Families: Stem cell - Pluripotency

MW: 6.6 kDa

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 RG235430