

## Product datasheet for **SC333324**

### MT1G (NM\_001301267) Human Untagged Clone

#### Product data:

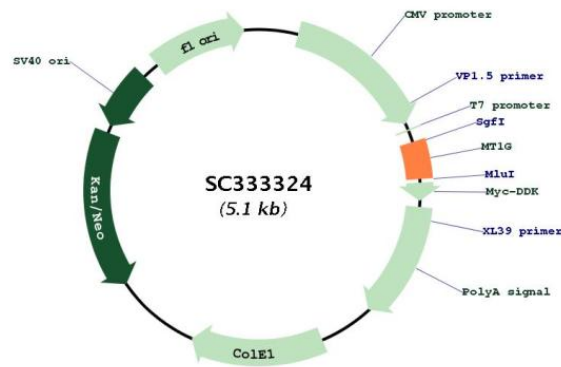
**Product Type:** Expression Plasmids  
**Product Name:** MT1G (NM\_001301267) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** MT1G  
**Synonyms:** MT1; MT1K  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Fully Sequenced ORF:** >SC333324 representing NM\_001301267.  
**Blue**=Insert sequence **Red**=Cloning site **Green**=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGACCCCAACTGCTCCTGTGCCGCTGCAGGTGTCTCCTGCACCTGCGCCAGCTCCTGCAAGTGCAAA
GAGTGCAAATGCACCTCCTGCAAGAAGAGCTGCTGCTCCTGTGCCCTGTGGGCTGTGCCAAGTGTGCC
CAGGGTGCATCTGCAAGGGGCATCGGAGAAGTGCAGCTGCTGCGCCTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

**Restriction Sites:** Sgfl-Mlul



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**Plasmid Map:**


**ACCN:** NM\_001301267

**Insert Size:** 189 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10µg 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\\_001301267.1](#)

**RefSeq Size:** 423 bp

**RefSeq ORF:** 189 bp

**Locus ID:** 4495

**UniProt ID:** [P13640](#)

**Cytogenetics:** 16q13

**Protein Families:** Stem cell - Pluripotency

**MW:** 6.1 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]  
Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 5' coding region, compared to variant 1. The resulting isoform (2) is one aa longer than isoform 1.