

## Product datasheet for **SC101172**

### MT ND1 (ND1) (NM\_173708) Human Untagged Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | MT ND1 (ND1) (NM_173708) Human Untagged Clone   |
| Tag:                      | Tag Free  |
| Symbol:                   | MT ND1  |
| Mammalian Cell Selection: | None  |
| Vector:                   | <u>pCMV6-XL4</u>  |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| Fully Sequenced ORF:      | >OriGene ORF within SC101172 sequence for NM_173708 edited (data generated by NextGen Sequencing) |

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ATACCCATGGCCAACCTCCTACTCCTCATTGTACCCATTCTAATCGCAATGGCATTCCCTA
ATGCTTACCGAACGAAAAATTCTAGGCTATATACTACGCAAAGGCCCAACGTTGTA
GGCCCCACGGGCTACTACAACCTTCGCTGACGCCATAAACTCTTACCAAAGAGCCC
CTAAAACCGCCACATCTACCATCACCTCTACATCACCGCCCGACCTTAGCTCTCACC
ATCGCTTCTACTATGAACCCCTCCCATACCCAACCCCTGGTCAACCTCAACCTA
GGCCTCTATTTATTCTAGCCACCTCTAGCCTAGCCGTTACTCAATCCTCTGATCAGGG
TGAGCATCAAACCTCAAACCTACGCCCTGATCGGCGCACTGCGAGCAGTAGCCAAACAATC
TCATATGAAGTCACCCTAGCCATCATTCTACTATCAACATTACTAATAAGTGGCTCCTTT
AACCTCTCCACCCTTATCACAACACAAGAACACCTCTGATTACTCCTGCCATCATGACCC
TTGGCCATAATATGATTTATCTCCACACTAGCAGAGACCAACCGAACCCCTTCGACCTT
GCCGAAGGGGAGTCCGAAGTCTCAGGCTTCAACATCGAATACGCCGAGGCCCTTC
GCCCTATTCTTAGCCGAATACACAAACATTATTATAATAAACACCCTCACCCTACA
ATCTTCTAGGAACAACATATGACGCACTCTCCCTGAACTCTACACAACATATTTGTC
ACCAAGACCCTACTTCTAACCTCCCTGTTCTTATGAATTCGAACAGCATAACCCCGATT
CGCTACGACCAACTCATAACCTCCTATGAAAAAATTCTACCCTCACCCTAGCATT
CTTATATGATATGTCTCCATACCCATTACAATCTCCAGCATTCCCCTCAAACCTAA
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Clone variation with respect to NM\_173708.1



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|                                     |   |
|-------------------------------------|---|
| <b>5' Read Nucleotide Sequence:</b> | >OriGene 5' read for NM_173708 unedited<br>ACGAGGTA AAAACTTAAAACCTTACAGTCAGNGGTTCAATTCTCTTCTTAAACAACATACC<br>CATGGCCAACCTCCTACTCCTCATTGTACCCATTCTAATCGCAATGGCATTCTAATGCT<br>TACCGAACGAAAAATTCTAGGCTATATACAACTACGCAAAGGCCCAACGTTGTAGGCC<br>CTACGGGCTACTACAACCTTCGCTGACGCCATAAACTCTTACCAAAGAGCCCCTAAA<br>ACCGCCACATCTACCATCACCTCTACATCACCGCCCCGACCTTAGCTCTCACCATCGC<br>TCTTCTACTATGAACCCCTCCCATACCCAACCCCTGGTCAACCTCAACCTAGGCCT<br>CCTATTTATTCTAGCCACCTCTAGCCTAGCCGTTTACTCAATCCTCTGATCAGGGTGAGC<br>ATCAAACCTCAAACCTACGCCCTGATCGGGCACTGCGAGCAGTAGCCAAACAATCTCATA<br>TGAAGTACCCTAGCCATCATTCTACTATCAACATTACTAATAAGTGGCTCCTTTAACCT<br>CTCCACCCTTATCACAACACAAGAACACCTCTGATTACTCCTGCCATCATGACCCTTGGC<br>CATAATATGATTATCTCCACACTAGCAGAGACCAACCGAACCCTTTTCGACCTTGGC<br>GAAAGGGGAGTCCGAAGTCTCANGGCTTCAACATCGAATACGCCGCANGCCCTTCG<br>CCCTATTTTTTATAGCCGAATACACAAACATTATTATAATAAAACACCCTCACCCTACA<br>ATCTTNTANGAACACATATGGACGCACTTCTCCCTGGAACCTACACAACATATTTT<br>G |
| <b>Restriction Sites:</b>           | NotI-NotI   |
| <b>ACCN:</b>                        | NM_173708   |
| <b>Insert Size:</b>                 | 957 bp  |
| <b>OTI Disclaimer:</b>              | 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).  |
| <b>Components:</b>                  | 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).  |
| <b>Reconstitution Method:</b>       | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>   |
| <b>Note:</b>                        | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.  |
| <b>RefSeq:</b>                      | <u><a href="#">NM_173708.1</a></u> , <u><a href="#">NP_776056.1</a></u>   |
| <b>RefSeq Size:</b>                 | 959 bp  |
| <b>RefSeq ORF:</b>                  | 957 bp  |
| <b>Locus ID:</b>                    | 4535  |
| <b>Protein Families:</b>            | Transmembrane   |
| <b>Protein Pathways:</b>            | Metabolic pathways, Oxidative phosphorylation, Parkinson's disease  |