

## Product datasheet for **SC100648**

### Mitochondrial Translational Initiation Factor 3 (MTIF3) (NM\_152912) Human Untagged Clone

#### Product data:

|                      |   |
|----------------------|---|
| Product Type:        | Expression Plasmids   |
| Product Name:        | Mitochondrial Translational Initiation Factor 3 (MTIF3) (NM_152912) Human Untagged Clone          |
| Tag:                 | Tag Free  |
| Symbol:              | MTIF3   |
| Synonyms:            | IF3mt   |
| Vector:              | <u>pCMV6-XL4</u>  |
| E. coli Selection:   | Ampicillin (100 ug/mL)  |
| Cell Selection:      | None  |
| Fully Sequenced ORF: | >NCBI ORF sequence for NM_152912, the custom clone sequence may differ by one or more nucleotides |

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ATGGCTGCTCTTTTTCTAAAGAGGTTAACTACTACAACTGTAAGTCTGAAAATAGTTGCATTAGATGTT
TTGGTAAACACATCCTGCAAAAGACAGCACCAGCACAGTTGTCCCCTATTGCTTCTGCCCAAGACTCTC
CTTCCTAATTCATGCAAAAGCCTTTAGTACCGCTGAAGACACCCAGAATGAAGGAAAAAGACAAAAAG
AATAAAACAGCTTTTAGTAACGTTGGAAGAAAAATTAGTCAGCGAGTTATCACTTATTTGATGAGAAGG
GCAATGATTTGGGAAACATGCACCGAGCAAATGTGATTAGACTTATGGATGAGCGAGACCTGCGACTGGT
TCAAAGGAACACCAGCACAGAACCTGCAGAGTATCAGCTCATGACAGGATTGCAGATCCTCCAGGAGCGG
CAGAGGCTGAGGGAGATGGAGAAGGCGAACCCCAAACTGGACCAACCCTGAGAAAGGAAGTATTTTGT
CTTCAAATATTGGACAACATGATTTGGACACAAAGACTAAACAGATTAGCAGTGGATTAAGAAAAACA
CCTAGTCCAGATTACCATAAAGAAAGGAAAAATGTAGACGTGTCAGAAAATGAAATGGAGGAGATTTT
CATCAAATACTCCAGACTATGCCTGGAATAGCTACATTCTCATCTAGGCCACAAGCTGTTCAAGGAGGAA
AAGCTTTAATGTGTGTTCTTCGTGCTTTCAGCAAAAATGAGGAGAAGGCATATAAAGAACTCAAGAGAC
CCAGGAAAGAGACACTTTGAACAAGACCATGGAATGATAAGGAATCAAATGTTCTGCATCAGTAA
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|                                     |   |
|-------------------------------------|---|
| <b>5' Read Nucleotide Sequence:</b> | >OriGene 5' read for NM_152912 unedited<br>AAAAAAANAACANCAACANNGGGCCCGTCCAGCATTGTGCATACGACTCACT<br>ATAGGCGGCCGGAATTCCTCTAAAAAAGATGGCTGCTCTTTTCTAAAGAGGTTAACA<br>CTACAACTGTAAAGTCTGAAAATAGTTGCATTAGATGTTTTGGTAAACACATCCTGCAA<br>AAGACAGCACCAGCACAGTTGTCCCTATTGCTTCTGCCCAAGACTCTCCTTCTAATT<br>CATGCAAAAAGCCTTTAGTACCGCTGAAGACACCCAGAATGAAGGAAAAAGACAAAAAG<br>AATAAAACAGCTTTTAGTAACGTTGAAGAAAAATTAGTCAGCGAGTTATTCATTATTT<br>GATGAGAAGGGCAATGATTTGGGAAACATGCACCGAGCAATGTGATTAGACTTATGGAT<br>GAGCGAGACTGCGACTGGTTCAAAGGAACACCAGCACAGAACCCTGCAGGTATCAGCTC<br>ATGACAGGATTGCAGATCCTCCAGGAGCGGCAGAGGCTGAGGGAGATGGAGAAGGCGAAC<br>CCCANAACGGACCAACCCTGAGAAAGGAACTGATTTTGTCTTCAATATTGGACAACAT<br>GATTTGGACACAAAGACTAAACAGATTCAGCAGTGGATTAAGAAAAACACCTAGTCCAG<br>ATTACCATAAAGAAAGGAAAAATGTAGACGTGCAGAAAATGAAATGGAGGAGATTTT<br>TATCAAATACTCCAGACTATGCCTGGAATACCTACATTCTCATCTAAGCCACAAGCTGTT<br>CAAGGGAGAAAAGCTTTTAAATGTGTGTTCTTCGGGCTTTCCAACAAAATGAGGAGCAGGC<br>CTATTAAGAACTCCAGAGACCCAGGAAAGAGACACTTTGAACAAAGAACCTGGGATGA<br>TAAGGAATCAATGTTCTTGTCTCAATCATTTAAATAAAGACAACCTGCTTCTGAAACCACC<br>AACNCTATCC |
| <b>Restriction Sites:</b>           | NotI-NotI   |
| <b>ACCN:</b>                        | NM_152912   |
| <b>Insert Size:</b>                 | 1100 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>RefSeq:</b>                      | <a href="#">NM_152912.3</a> , <a href="#">NP_690876.2</a>   |
| <b>RefSeq Size:</b>                 | 1018 bp   |
| <b>RefSeq ORF:</b>                  | 837 bp  |
| <b>Locus ID:</b>                    | 219402  |
| <b>UniProt ID:</b>                  | <a href="#">Q9H2K0</a>  |
| <b>Cytogenetics:</b>                | 13q12.2   |
| <b>Domains:</b>                     | IF3_N   |

**Gene Summary:**

This gene encodes a translation initiation factor that is involved in mitochondrial protein synthesis. Polymorphism in this gene is associated with the onset of Parkinson's disease. Alternate splicing results in multiple transcript variants. A pseudogene of this gene is found on chromosome 5. [provided by RefSeq, Oct 2009]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1, 2, 3, and 4 encode the same protein.