

## Product datasheet for **SC119199**

### ICT1 (MRPL58) (NM\_001545) Human Untagged Clone

#### Product data:

|                      |   |
|----------------------|---|
| Product Type:        | Expression Plasmids   |
| Product Name:        | ICT1 (MRPL58) (NM_001545) Human Untagged Clone  |
| Tag:                 | Tag Free  |
| Symbol:              | MRPL58  |
| Synonyms:            | DS-1; DS1; ICT1; MRP-L58  |
| Vector:              | <u>pCMV6-XL5</u>  |
| E. coli Selection:   | Ampicillin (100 ug/mL)  |
| Cell Selection:      | None  |
| Fully Sequenced ORF: | >NCBI ORF sequence for NM_001545, the custom clone sequence may differ by one or more nucleotides |

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ATGGCGGCCACCAGGTGCCTGCGCTGGGGCCTGAGCCGAGCCGGAGTCTGGCTGCTCCCACCGCCCGCAC
GGTGCCCACGCCGGCGCTGCACAAGCAGAAAGACGGCACTGAGTTCAAGAGCATCTACAGCCTGGACAA
GCTCTACCCCGAATCTCAGGGCTCGGACACCGCCTGGAGGGTCCCGAATGGTGCAAAGCAAGCCGACAGT
GACATCCCTCTAGATCGCTTGACAATATCTTATTGTCCGAGTAGTGGTCTGGGGGCAGAATGTGAACA
AAGTGAATTCCAAGGCAGAAGTCAGGTTCCATTTGGCAACTGCCGAGTGGATCGCGGAGCCCGTCCGGCA
GAAGATAGCCATCACGCATAAAAACAAGATCAACAGGTTAGGAGAGTTGATCCTTACCTCTGAGAGCAGC
CGCTATCAGTTCGGAAATCTGGCAGATTGCCTGCAGAAAATTCGAGACATGATCACTGAGGCCAGCCAGA
CACCGAAGGAGCCAACAAAAGAAGATGTTAACTTCATAGAATCAGGATAGAAAACATGAATCGGGAAAG
GCTGAGACAAAAGAGAATTCTTCTGCTGTAAGACAAGCAGGAGGGTCGACATGGACTGA
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|                                     |   |
|-------------------------------------|---|
| <b>5' Read Nucleotide Sequence:</b> | >OriGene 5' read for NM_001545 unedited<br>CATACGTCGCACTATAGGGCGGCCGCAATTCGGCACGAGGGGTGCCTTTGCTGGGGCCT<br>GAGCCGAGCCGGAGTCTGGCTGCTCCCACCGCCCGCACGGTGCCACGCCGGGCGCTGCA<br>CAAGCAGAAAGACGGCACTGAGTTCAAGAGCATCTACAGCCTGGACAAGCTCTACCCCGA<br>ATCTCAGGGCTCGGACACCGCTGGAGGGTCCCGAATGGTGCAAAGCAAGCCGACAGTGA<br>CATCCCTCTAGATCGCTTGACAATATCTTATTGTGGAGTAATGGTCTGGGGGCGAGAA<br>TGTGACATAGTAAATCAAGGAGAAGTCAAGTTCCTTTGCAACCGCCGAGGGATCCG<br>GAGCCCGCGGCAAAAAAACCTTCCCTTAAAACCAAAAAACAGGGTTGGGAGATTGTC<br>CCTTCCCTTTGGAGAACCCTTTTAAATCCCGAAAATTGGGAAAAGTCCCGCAAAAAATTTA<br>AAAATTTCCCTGGGCCCCCCCCCCCGGGGGCCCAAAAAAGAGTTCCCTTTTTCAC<br>CGGGGAAAAACAATTGGGGGGGGGCAAAAAAAAATTTTTTTTTTAAACAAAA<br>GGGGGGGGGAAAAAAAACCCCTTCTGGGGGGGGTTTTTTTCCGCCCGGCCCC<br>CCTAAAACCCCCCCCAAGAAGGGGGTTTTTTTTTTTTGGGGGGGGGGGTCT<br>TCCCCCACCCTTCCACCCCTCCCCCGGTTCCCTTCTTTAAAAAAA<br>AAG  |
| <b>3' Read Nucleotide Sequence:</b> | >OriGene 3' read for NM_001545 unedited<br>CCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTATGAGTTCTGATTTTTAT<br>TGTGACTAATACATGAGGTGCATTATTAAGTTTGACAACATGGTGACTGCCTATAAAGA<br>CGTCTGCAACCAGTGCCTGCAGCCTTCAATCCTTGAACATTCTGTGATGGCTCCAAT<br>GTTATAGACAAGCATTAAACAGCCAAAAAGAAAAACAGAAATCTCCTTATGGTGTGAAAGT<br>CCTCTCAGCTGCAGCTGCCCGGACGCCAGAAGAGCCCTCCAGCTGCAGAGGGTGATT<br>CAGTCCATGTCGACCCTCTGCTGTCTTTACAGCAGAATGAATTCTCTTTGTCTCAGC<br>CTTTCCGATTATGTTTTCTATCCTGATTCTATGAAGTTAACATCTCTTTTGTGGC<br>TCCTTCGGTGTCTGGCTGGCCTCAGTGATCATGTCTCGAATTTCTGCAGCAATCTGCC<br>AGATTCGGAACTGATAGCGGCTGCTCTCAGAGGTAAGGATCAACTCTCCTAACCTGTTG<br>ATCTTGCTTTTATGCGTGATGGCTATCTTCTGCCACGGCCTCCGCGATCCACTCGCAGT<br>TGCCAAATGGAACCTGACTTCTGCCTTGAATACACTTTGTTACATTCTGACCACCAAG<br>ACCACTACTTCGACAATAACAATTGCCAGCGATCTAAAGGGATGTCCCTGCCGGCTTTG<br>CCTTGCAACATTCCGGACCTTCCAGCGGTGACCAACCCCGAGATTCGGGGCAAAACCT<br>GCCACCTGCANAAGCTCTGAACCATGCCGTTTTCTGTTTGAACGCCCGGCGTGG<br>CACCGTCCGGGCGGGGAGCAACCCACCCCGGCTCGGCTTAAGGCCACCGCCAGGCC<br>CCCTTGCCCGAATTCGGGCCCCCTTAGGGAGACGCTTACACAATTGGAACGGTCCGTA<br>AAG |
| <b>Restriction Sites:</b>           | NotI-NotI   |
| <b>ACCN:</b>                        | NM_001545   |
| <b>Insert Size:</b>                 | 940 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>RefSeq:</b>                      | <a href="#">NM_001545.1</a> , <a href="#">NP_001536.1</a>   |
| <b>RefSeq Size:</b>                 | 888 bp  |
| <b>RefSeq ORF:</b>                  | 621 bp  |
| <b>Locus ID:</b>                    | 3396  |

UniProt ID: [Q14197](#)

**Gene Summary:** The protein encoded by this gene is a peptidyl-tRNA hydrolase and a vital component of the large mitochondrial ribosome. The encoded protein serves as a ribosome release factor for this ribosome, which translates mitochondrial genes. This protein may be responsible for degrading prematurely-terminated polypeptides and for reusing stalled ribosomes. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2014]

Transcript Variant: This variant (1) represents the longer transcript and encodes the predominant isoform (1).