

## Product datasheet for MR202185

### Ict1 (BC028523) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ict1 (BC028523) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Ict1  
**Synonyms:** 1110001A02Rik; 1110002E03Rik; MRP-L58  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR202185 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGCACCGCCTGGGGCCTACGCTGGGGCCTGAGCCGAAGTGAACGTTGTTGCTCGCGCCGCCCGCGC  
 GCTGTGCTCGCCGGGCTCTGCACAGACAGGTAGACGGCACCACGTTCCAGAGCATCTACAGCCTGGACAA  
 GCTGTACCCCGAGTCCAAGGGCGCGGATACCGCTGGAAGGTCCCGGAGCATGCAAAACAAGCCAGCAGT  
 TACATCCCTCTGGATCGGTTAAGCATATCTTACTGTCGGAGCAGCGGTCTGTTGGGCAGAATGTGAACA  
 AAGTGAATTCCAAGGCTGAAGTAAGTTTCACTTGCCAGTGCAGACTGGATTGAGGAGCCCGTGCGCCA  
 GAAGATTGCCCTACGCATAAAAATAAGATCAACAAGGCAGGAGAGCTGGTACTTACCTCTGAGAGCAGC  
 CGGTATCAGTTCCGCAATCTGGCAGAATGCCTACAGAAAATTCGAGACATGATTGCCGAGGCCAGCCAGG  
 TACCCAAAGAGCCATCCAAGGAAGATGCTCGGCTTACAGAGACTCAGGATTGAAAAGATGAATCGGGAAAAG  
 GCTACGACAGAAAAGACTAACTCTGCCCTAAAGACCAGCAGGAGGATGACTATGGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR202185 protein sequence  
 Red=Cloning site Green=Tags(s)

MATAWGLRWGLSRTGTLAPPARCARRALHRQVDGTTTFQSIYSLDKLYPESKGADTAWKVPYEHAKQASS  
 YIPLDRLSISYCRSSGGQNVNKNVNSKAEVRFHLASADWIEEPVRQKIALTHKNKINKAGELVLTSESS  
 RYQFRNLAECLQKIRDMIAEASQVPKESKEDARLQRLRIEKMNRERLRQKRLNSALKTSRRMTMD

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC028523

ORF Size: 618 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).

- 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: [BC028523](#), [AAH28523](#)

RefSeq Size: 879 bp

RefSeq ORF: 620 bp

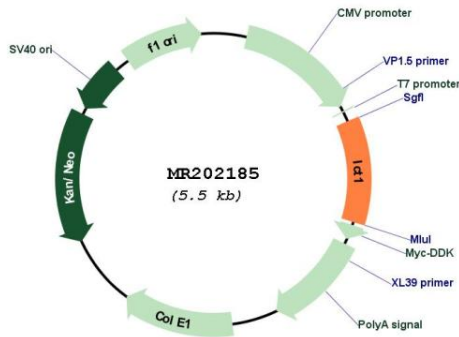
Locus ID: 68572

Cytogenetics: 11 E2

MW: 23.5 kDa

**Gene Summary:** Essential peptidyl-tRNA hydrolase component of the mitochondrial large ribosomal subunit (PubMed:20869366). Acts as a codon-independent translation release factor that has lost all stop codon specificity and directs the termination of translation in mitochondrion, possibly in case of abortive elongation. May be involved in the hydrolysis of peptidyl-tRNAs that have been prematurely terminated and thus in the recycling of stalled mitochondrial ribosomes (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR202185