

Product datasheet for **MG202185**

Ict1 (BC028523) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ict1 (BC028523) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Ict1
Synonyms: 1110001A02Rik; 1110002E03Rik; MRP-L58
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG202185 representing BC028523
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGACCGCTGGGGCTACGCTGGGGCTGAGCCGAAGTGAACGTTGTTGCTCGCGCCGCCCGCGC
 GCTGTGCTCGCCGGGCTCTGCACAGACAGGTAGACGGCACCACGTTCCAGAGCATCTACAGCCTGGCAA
 GCTGTACCCCGAGTCCAAGGGCGCGGATACCGCTGGAAGGTCCCGGAGCATGCAAACAAGCCAGCAGT
 TACATCCCTCTGGATCGGTTAAGCATATCTTACTGTGGAGCAGCGGTCTGGTGGGCAGAATGTGAACA
 AAGTGAATTCCAAGGCTGAAGTAAGGTTTCACTTGCCAGTGCAGACTGGATTGAGGAGCCCGTGCGCCA
 GAAGATTGCCCTACGCATAAAAATAAGATCAACAAGGCAGGAGAGCTGGTACTTACCTCTGAGAGCAGC
 CGGTATCAGTTCCGCAATCTGGCAGAATGCCTACAGAAAATTCGAGACATGATTGCCGAGGCCAGCCAGG
 TACCCAAAGAGCCATCCAAGGAAGATGCTCGGCTTACAGAGACTCAGGATTGAAAAGATGAATCGGGAAAAG
 GCTACGACAGAAAAGACTAACTCTGCCCTAAAGACCAGCAGGAGGATGACTATGGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG202185 representing BC028523
 Red=Cloning site Green=Tags(s)

MATAWGLRWLSRTGTLALLAPPARCARRALHRQVDGTTFQSIYSLDKLYPESKGADTAWKVPEHAKQASS
 YIPLDRLSISYCRSSPGGQNVNKNVNSKAEVRFHLASADWIEEPVRQKIALTHKNKINKAGELVLTSESS
 RYQFRNLAECLQKIRDMAEASQVPKESKEDARLQRLRIEKMNRERLRQKRLNSALKTSRRMTMD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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

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]