

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: lct1

Synonyms: 1110001A02Rik; 1110002E03Rik; MRP-L58

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >MG202185 representing BC028523

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

GCTACGACAGAAAAGACTAAACTCTGCCCTAAAGACCAGCAGGAGGATGACTATGGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG202185 representing BC028523

Red=Cloning site Green=Tags(s)

MATAWGLRWGLSRTGTLLLAPPARCARRALHRQVDGTTFQSIYSLDKLYPESKGADTAWKVPEHAKQASS YIPLDRLSISYCRSSGPGGQNVNKVNSKAEVRFHLASADWIEEPVRQKIALTHKNKINKAGELVLTSESS RYQFRNLAECLQKIRDMIAEASQVPKEPSKEDARLQRLRIEKMNRERLRQKRLNSALKTSRRMTMD

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



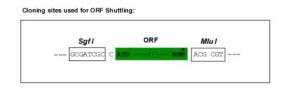
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

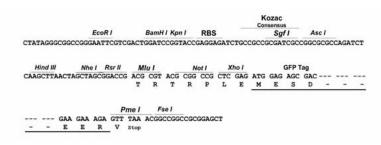
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

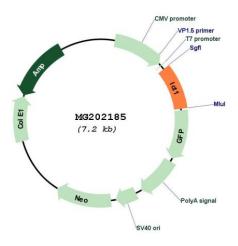


Cloning Scheme:





Plasmid Map:



ACCN: BC028523 **ORF Size:** 620 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: <u>BC028523</u>, <u>AAH28523</u>

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]