

Product datasheet for **MG222149**

Cps1 (NM_001080809) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cps1 (NM_001080809) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cps1
Synonyms:	4732433M03Rik; C; CPS; D1Ucl; D1Ucla3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG222149 representing NM_001080809 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

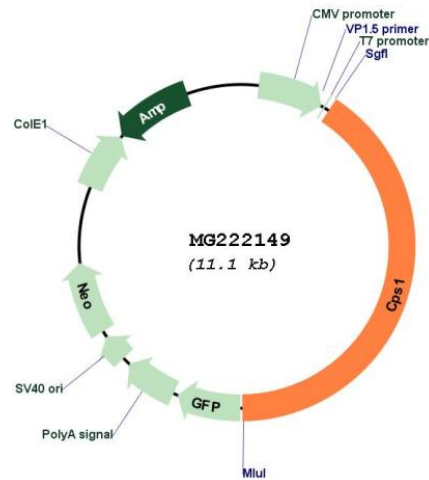
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TTTGTACAGAAGTTATCAAGGCTGAACGGCCTGATGGGCTGATTCTGGGCATGGGTGGCCAGACAGCTC
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 AAATTTTTGCTGAAGCTGTGCAGAAATCTCGCACTGTGGACTCCAAGAGTCTGTTCCACTACAGGCAGT
 ACAGTGTGAAAGGCCGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Plasmid Map:


ACCN: NM_001080809

ORF Size: 4500 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<ol style="list-style-type: none">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>NM_001080809.2</u> , <u>NP_001074278.1</u>
RefSeq Size:	4704 bp
RefSeq ORF:	4503 bp
Locus ID:	227231
UniProt ID:	<u>Q8C196</u>
Cytogenetics:	1 33.75 cM
Gene Summary:	<p>This gene encodes a protein localized to the inner mitochondrial matrix. The encoded protein plays a role in the detoxification of ammonia by catalyzing the first step in the urea cycle in which carbomyl-phosphate is synthesized from ammonia and bicarbonate. Carbamoyl-phosphate is subsequently converted to urea that is excreted by the kidneys. Deficiency of the encoded enzyme leads to an accumulation of ammonia in the blood. High levels of ammonia are toxic to the central nervous system and result in neurological disorders. [provided by RefSeq, Oct 2013]</p>