

Product datasheet for **RG200618**

CMC4 (NM_001018024) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	CMC4
Synonyms:	C6.1B; MTCPI; MTCPIB; MTCPINB; p8; p8MTCPI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG200618 representing NM_001018024
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCGCAGAAGGATCCGTGCCAGAAGCAAGCCTGTGAGATACAGAAATGTTTACAAGCCAACAGCTACA
TGGAATCAAAGTGTCAAGGCTGTATCCAAGAACTGCGTAAGTGTGTGCTCAGTATCCCAAGGGAAGATC
TGTCGTCTGTTCAAGATTTGAAAAAGAGGAAGAAACCTAACACGGAAGTCTGCATCAAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG200618 representing NM_001018024
Red=Cloning site Green=Tags(s)

MPQKDPQCQKQACEIQKCLQANSYMESKCAVIQELRKCAQYPKGRSVVCSGFEKEEEENLTRKSASK

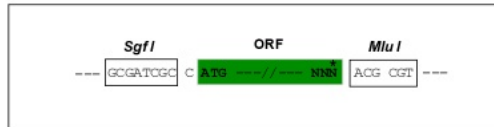
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:

Cloning sites used for ORF Shutting:



EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI
 CTATAGGGCGGCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCCAGATCT
 HindIII NheI RsrII MluI NotI XhoI GFP Tag
 CAAGCTTAAGTCTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---
 T R T R P L E M E S D - - -
 --- --- GAA GAA AGA GTT TAA ACGCCGGCCGCGGAGCT
 - - E E R V Stop

ACCN: NM_001018024

ORF Size: 204 bp

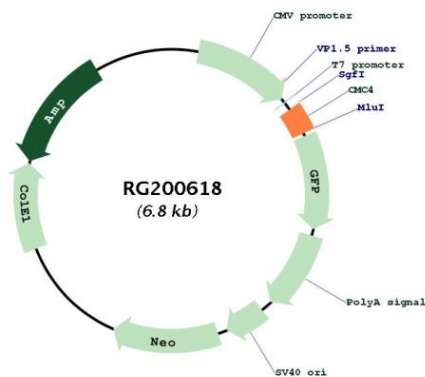
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001018024.3</u>
RefSeq Size:	1117 bp
RefSeq ORF:	207 bp
Locus ID:	100272147
UniProt ID:	<u>P56277</u>
Cytogenetics:	Xq28
Gene Summary:	This gene was identified by involvement in some t(X;14) translocations associated with mature T-cell proliferations. This region has a complex gene structure, with a common promoter and 5' exon spliced to two different sets of 3' exons that encode two different proteins. This gene represents the downstream 8 kDa protein that localizes to mitochondria.[provided by RefSeq, Mar 2009]

Product images:



Circular map for RG200618