

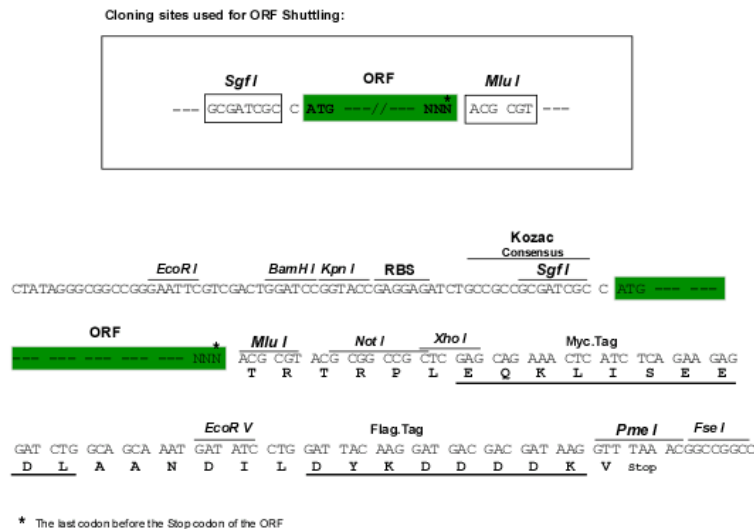
Protein Sequence: >MR203699 representing BC023124
 Red=Cloning site Green=Tags(s)

MLLRFTFTETMSSLCPGKPWQTKLSSAGLVYLHFGRKLLAQLLGTSEEDSVVDTIYDKMYENFVEEVDADV
 NGISQWAEGERPYAMTTTL SARVARLNPTWNQPNQDTEAGFRAMD LVQEEFLQRLN FYQHSWLPARALV
 EEALAQRFKVDSSGEIVELAKGGCPWKEHLYHLESELSPKVAITFVIYTDQAGQWRVQCVPKEPHSFQSR
 LPLPEPWRGLRDKALDQVSGIPGCFVHASGFIGGHTREGALN MARATLAQRPAPVPLANAVVQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC023124

ORF Size: 825 bp

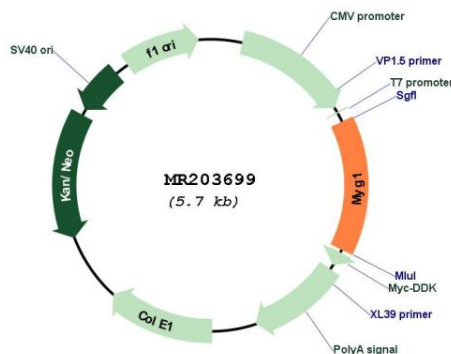
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	BC023124
RefSeq Size:	1334 bp
RefSeq ORF:	827 bp
Locus ID:	60315
Cytogenetics:	15 F3
MW:	48.8 kDa
Gene Summary:	3'-5' RNA exonuclease which cleaves in situ on specific transcripts in both nucleus and mitochondrion. Involved in regulating spatially segregated organellar RNA processing, acts as a coordinator of nucleo-mitochondrial crosstalk (PubMed:31081026). In nucleolus, processes pre-ribosomal RNA involved in ribosome assembly and alters cytoplasmic translation. In mitochondrial matrix, processes 3'-termini of the mito-ribosomal and messenger RNAs and controls translation of mitochondrial proteins (PubMed:31081026).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203699