

Product datasheet for **MG202929**

Mrto4 (NM_023536) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Mrto4
Synonyms:	2610012O22Rik; Mg684; Mrt4
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG202929 representing NM_023536
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCCAAATCCAAGCGAGACAAGAAAGTTTCTTTAACAAAACTGCCAAGAAAGGCTTGGAACTGAAGC
AGAACCTGATAGAAGAGCTTCGAAATGTGTGGACACCTACAAGTACCTTTTCATCTTCTGTGGCCAA
CATGAGGAACAGCAAGCTGAAAGACATCCGGAACGCCTGAAACACAGCCGGATGTTCTTTGGCAAAAAC
AAGGTGATGATGGTGGCCTTGGGTCGAAGCCATCTGATGAATACAAAGACAACCTACATCAGGTCAGCA
AGAAGTTGAGAGGTGAAGTTGGGCTGCTGTTACCAACCGCACGAAGGAGGAGGTGAATGAGTGGTTCAC
CAAGTATACAGAAATGGATTTTCTCGAGCGGGAAACAAAGCAACTCTAACTGTGAGCCTGGATCCAGGG
CCCCTGAAGCAATCCCTCACTCCATGGAGCCACAGCTGAGGCAGCTGGGGCTGCCCACTGCCCTCAAGA
AAGGTGTGGTGACCCTGCTGTCTGACTATGAAGTATGCAAAGAGGGTGACGTGCTGACCCAGAGCAGGC
CCGATCCTGCTGTTGGGTATGAGATGGCTGAATCAAAGTATCATCAAATACATGTTGGACGCCAG
TCAGGACGATTCCAGCAGATGGACGATGACCTGCCTGAGAGCGCCTGAGTCTGAGGGAGAGTCTGAGG
AGGAGGATGACAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >MG202929 representing NM_023536
 Red=Cloning site Green=Tags(s)

MPKSKRDKKVSLTKTAKKGLLELQNLIEELRKCVDYKYLFIKSVANMRNSKLDIRNAWKHSRMFFGKN
 KYMMVALGRSPSDEYKDNLHQVSKKLRGEVGLLFTNRTKEEVNEWFVKYTEMDFARAGNKATLTVSLDPG
 PLKQFPHSMEPQLRQLGLPTALKKGVVTLSDYEVCKEGDVLTPAQARILLFGYEMAEFKVLIKYMWDAQ
 SGRFQMQMDDLPESAPESEGESEEEEDDS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_023536

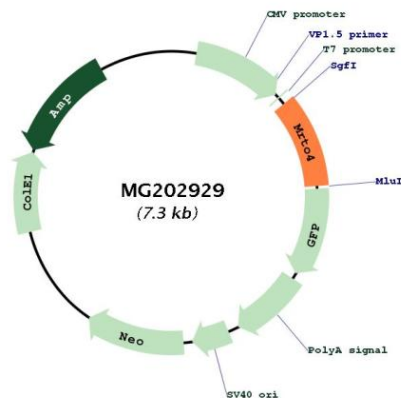
ORF Size: 714 bp

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:	<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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_023536.1
RefSeq Size:	930 bp
RefSeq ORF:	717 bp
Locus ID:	69902
UniProt ID:	Q9D0I8
Cytogenetics:	4 D3
Gene Summary:	Component of the ribosome assembly machinery. Nuclear paralog of the ribosomal protein P0, it binds pre-60S subunits at an early stage of assembly in the nucleolus, and is replaced by P0 in cytoplasmic pre-60S subunits and mature 80S ribosomes.[UniProtKB/Swiss-Prot Function]

Product images:

Circular map for MG202929