

Product datasheet for **RG206396**

MRO (NM_031939) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRO (NM_031939) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MRO
Synonyms:	B29; C18orf3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206396 representing NM_031939 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACCAAGACAGAGGAGAATCCTGGGCCAGCCCTTCCATCCCTACTTCCCAGCCCAAGCAGAAAA
GGACATCAATGATATCTTTCTTTTCCAAGGTCTCTTGAAACTGAGCTTCCAGAAGCGGGAGCCTTGAA
GAATGTGTTTTTCATCTTGGCAGAAAGAGCTCGGGACCCAGTGCTAAAAAGCGTCACATGGCAATGAGA
AACTTGGGAACCATGGCCTATGAAGCCCTGACAAGGTGAGAAAGTATAAGAAAAATTGCCTCGACCTGC
TGGTGTATGGACTGTATGACCCTGTGAATTTGGAAGTCATCCATGAGAGTATGAAGACTCTGACCCTCGT
TCTGGGCAAGATCCAGGGGAAAGGTTTGGGTTCCCTTCTTCATAGATATCGCCCTTCCAGACCAGGACTTTA
TTAGATGATGAGAACGACAGTCTGAGATACTCGGCCTTTGTTTTGTTGGCAATTGGCTGCCTTTGCCG
GGAGGAAATGGAAAAATTTTTACCAGTCAGGTTAAGCAGACACGAGATTCCCTCCTGATCCATTTACA
GGACAGAAATCCCAGGTTGCCAAGGCTTGCAAAAACAATTTCAAGCCTGTTCTCCATATCTGAAACTA
AAGGAGGAATACAGCTTCCAGAGTGAAGAAGATCAAAGGAACACTAAGCTCTACCAGCAGCTGAGCCACT
ATCATCCAGAGATCCTGCAGTCTTCTACGCAAATAAAATTCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG206396 representing NM_031939
 Red=Cloning site Green=Tags(s)

MDQRQRRLGQPLSIPTSQPKQKRTSMISFFSKVSWKLSFQKREPLKNVFFILAERARDPSAKKRHMAMR
 NLGTMAYEAPDKVRKYKKIVLDLLVYGLYDPVNLEVIHESMKTLLVVLGKIQQKGLGSFFIDIALQTRTL
 LDDENDSLRYSAFVLFQQLAAFAGRWKWKFFTSQVKQTRDSSLIHLQDRNPQVAKACKTTFQACSPYLKL
 KEEYSFQSEEDQRNTKLYQLSHYHPEILQFFYANKIL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_031939

ORF Size: 744 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: [NM_031939.2](#), [NP_114145.1](#)

RefSeq Size: 2108 bp

RefSeq ORF: 747 bp

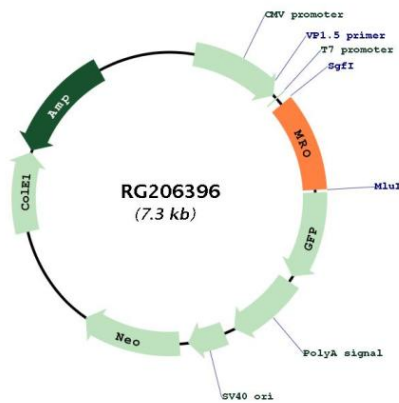
Locus ID: 83876

UniProt ID: [Q9BYG7](#)

Cytogenetics: 18q21.2

Gene Summary: This gene is specifically transcribed in males before and after differentiation of testis, and the encoded protein may play an important role in a mammalian sex determination. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG206396