

Product datasheet for **RG207091**

MACO1 (NM_018202) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	MACO1
Synonyms:	MACOILIN; TMEM57
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG207091 representing NM_018202
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAAGCGGCGGAACGCCGACTGCAGTAAGCTCCGCCGCCCTAAAGCGGAACCGGATCACCGAGGGCA
 TTTACGGCAGTACATTTTATACCTGAAATTCCTGGTGGTGTGGGCACTTGCTCCTAGCAGATTTTGT
 CCTGGAGTTTCAATTTGAATACCTGTGGCCATTCTGGCTTTTCATCAGAAGCGTCTATGATTCCTTCAGA
 TACCAGGGACTGGCCTTCTCAGTATTTTTGTGTTGTGTAGCATTACGTCAAATATAATATGCCTGCTGT
 TCATCCCCATACAGTGGCTTTTTTGTGCTAGCACATATGTATGGGTTTCACTACGTATGGCACACAGA
 AAGGGGAGTGTGTTTGCCTACAGTGTCTCTGCTGATCCTCTTTGTTTATATTGAAGCAGCCATTAGATTT
 AAAGATCTCAAAAACCTTTCATGTAGACCTTTGCTGCTCATTGCTGCTCACTGTATTGGGTACCTGTGG
 TAACTTTGGGTTTGGCTTCAAAAGTTACGTAAGCTACAAAATGCGGTTAAGGAAGCAAAAAGAAGTACA
 AAAAGAGAACGAGTTTACATGCAACTTCTTCAACAAGCTCTCCCTCCAGAGCAACAGATGCTACAGAAG
 CAAGAAAAAGAGGCCGAGGAAGCAGCCAAAGGATTACCTGATATGGATTCTTCGATCCTTATACACCACA
 ATGGAGGTATCCCAGCCAACAAAAAATCTCCCAACTTTGCCAGAGATAGAATACCGAGAAAAAGGGAA
 AGAAAAAGACAAGGATGCCAAAAACACAACCTTGAATAAATAACAACAATATTCTACAACCTGTAGAC
 TCTAAAATACAAGAGATTGAGTATATGGAAGGAGTCAATAGTAAAAAGTTAAATATGATCTTGTGG
 GAAGTACAGAAAAATCTCTTGAAGAGGACTCATGCACTGCTTCTCAAAAAATTACAAAAATGCCAGTGG
 AGTTGTGAACCTTTCACCTCGAAGTCATAGCGCCACAAATGGGAGCATTCTTCTCATCTAGTAAAAAT
 GAGAAGAAGCAGAAATGCACTAGCAAGAGCCCAAGTACACACAAGGACTTAATGGAAAACTGTTTCTTA
 ATAACCAGCTAAGCAAACAGACGCACTGGTCAAGGCTGGAACAAGACATTAAAAAGTTAAAGGCTGACCT
 GCAAGCCAGCAGACAAGTGAACAAGAGCTCCGCAAGTCAAGTCAAGTCCCTTTGAGCAGCCAGCGAGGG
 ATCCGCTCAGAAATGGGCCAGCTTCGGCAGGAGAACGAGCTGCTGCAGAACAAAGTTACATAATGCTGTGC
 AAATGAAGCAAAAAGACAAGCAGAATATCAGCCAGTTGGAGAAAAAGCTAAAAGCTGAGCAGGAAGCCCG
 AAGTTTTGTAGAGAAACAGTTAATGAAGAGAAAAAGGAAGAAGTTAGAAGAAGCCACTGCTGCCCGG
 GCTGTTGCGTTTGTGCTGCTGCATCTAGGGGAGAAATGCACCGAAACCTTACGGAATCGGATCAGAGAACTAG
 AAGCAGAGGGCAAGAAGCTCACGATGGACATGAAGGTGAAAGAAGACCAATCAGAGAACTAGAATAAA
 AGTCCAGGAGCTTCGGAATATAAGGAAATGAGAAGGACTGAGGTGTTAATGTCAGCCCTCTCAGCC
 ATGCAAGACAAAACACAGCACCTGGAGAACAGCTTAAGTGCAGAGACGAGAATCAAGCTGGACCTGTTCT
 CCGCACTGGGCGATGCAAGCGGCAGCTCAGATTGCCCAAGGACAAATCCTTCAGAAAGATCAGGAAAT
 CAAGGACCTAAAACAGAAGATAGCCGAAGTCATGGCCGTATGCCAGCATAACATACAGTCCGCCACC
 AGCCCCCTGAGCCCTGTTTCCCCCACTACTCTTCCAAATTTGTGGAGACCAGCCCCCTGGAAGTAC
 CCAATGCCTCTGTTTACCAGCCCCGAAGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG207091 representing NM_018202
 Red=Cloning site Green=Tags(s)

MKRRNADCSKLRRPLKRNRITEGIYGSTFLYLKFLVWALVLLADFLVLEFRFEYLPWFRLFIRSVYDSFR
 YQGLAFSVFFVCVAFTSNIIICLLFIPIQWLFFAASYVWVQYVWHTERGVCLPTVSLWILFVYIEAAIRF
 KDLKNFHVLDLCPFAAHCIGYPVVTGFGFKSYVSYKMRLRKQKEVQKENEFYMQLLQALPPEQMLQK
 QEKEAEEAAKGLPDMSSILIHNGGIPANKLSTTLPEIEYREKGEKDKDAKKHNLGINNNILQPV
 SKIQEIEYMHNSKRLNNDLVGSTENLLKEDSCTASSKNYKNASGVVNSPRSHSATNGSIPSSSSKN
 EKKQKCTKSPSTHKDLMENCIPNNQLSKPDALVRLEQDIKKLADLQASRQVEQELRSQISSLSSTERG
 IRSEMGQLRQENELLQNLHNAVQMKQKDKQNISQLEKKLKAQEARSFVEKQLMEEKKRKKLEEATAAR
 AVAFAAASRGECTETLRNRIRELEAEGKKLTMDMKVKEDQIRELELKVQELRKYKENEKDEVLMSALSA
 MQDKTQHLNSLSAETRIKLDLFSALGDAKRQLEIAQGQILQKDQEIKDLKQKIAEVMVMPSTITYSAAT
 SPLSPVSPHYSSKFVETSPSGLDPNASVYQPLKK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018202

ORF Size: 1992 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.

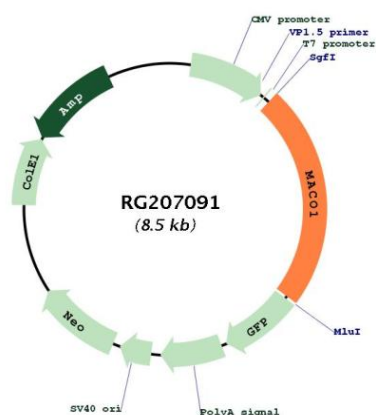
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_018202.6](#)

RefSeq Size: 3158 bp

RefSeq ORF:	1995 bp
Locus ID:	55219
UniProt ID:	Q8N5G2
Cytogenetics:	1p36.11
Protein Families:	Transmembrane
Gene Summary:	Plays a role in the regulation of neuronal activity.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG207091