

## Product datasheet for **RC207091**

### **MACO1 (NM\_018202) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MACO1 (NM_018202) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MACO1
Synonyms:	MACOILIN; TMEM57
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC207091 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAAGCGCGGAACCGCGACTGCAGTAAGCTCCGCCGCCCTAAAGCGGAACCGGATCACCGAGGGCA  
 TTACGGCAGTACATTTTATACCTGAAATTCCTGGTGGTGTGGCACTTGCTCCTAGCAGATTTTGT  
 CCTGGAGTTCAGATTTGAATACCTGTGGCATTCTGGCTTTTCATCAGAAGCGTCTATGATTCCTCAGA  
 TACCAGGGACTGGCCTTCTCAGTATTTTTGTTGTGTAGCATTACGTCAAATATAATATGCCTGCTGT  
 TCATCCCACATACAGTGGCTTTTTTTGCTGCTAGCACATATGTATGGGTTAGTACGTATGGCACACAGA  
 AAGGGGAGTGTGTTGCCTACAGTGTCTCTGGATCCTCTTTGTTTATATTGAAGCAGCCATTAGATTT  
 AAAGATCTCAAAAACCTTTCATGTAGACCTTTGTCGTCCATTTGCTGCTCACTGTATTGGGTACCCTGTGG  
 TAACTTTGGGGTTTGGCTTCAAAAGTTACGTAAGCTACAAAATGCGGTTAAGGAAGCAAAAAGAAGTACA  
 AAAAGAGAACGAGTTTTACATGCAACTTCTTCAACAAGCTCTCCCTCCAGAGCAACAGATGCTACAGAAG  
 CAAGAAAAGAGGCCGAGGAAGCAGCCAAAGGATTACCTGATATGGATTCTTCGATCCTTATACACCACA  
 ATGGAGGTATCCCAGCCAACAAAAACTCTCCACAACCTTGGCCAGAGATAGAATACCGAGAAAAAGGGAA  
 AGAAAAGGACAAGGATGCCAAAAACACAACTTGAATAAATAACAACAATATTCTACAACCTGTAGAC  
 TCTAAAATACAAGAGATTGAGTATATGGAAAACCATATCAATAGTAAAAGATTAATAATGATCTTGTGG  
 GAAGTACAGAAAATCTTTGAAAGAGGACTCATGCACTGCTTCTCAAAAAATTACAAAAATGCCAGTGG  
 AGTTGTGAACCTTACCTCGAAGTCAATAGCGCCACAAATGGGAGCATTCTTCTCATCTAGTAAAAAT  
 GAGAAGAAGCAGAAAATGCACTAGCAAGAGCCCAAGTACACACAAGGACTTAATGGAAAACGTATTCCCTA  
 ATAACCAGCTAAGCAAACAGACGCACTGGTCAGGTGGAACAAGACATTAATAAGTTAAAGGCTGACCT  
 GCAAGCCAGCAGACAAGTGGAACAAGAGCTCCGCAGTCAGATCAGCTCCCTTTTCGAGCACCGAGCGAGGG  
 ATCCGCTCAGAAAATGGGCCAGCTTCGGCAGGAGAACGAGCTGCTGCAGAACAAGTTACATAATGCTGTGC  
 AAATGAAGCAAAAAGACAAGCAGAATATCAGCCAGTTGGAGAAAAAGCTAAAAGCTGAGCAGGAAGCCCG  
 AAGTTTTGTAGAGAAACAGTTAATGGAAGAGAAAAAGAGGAAGAAGTTAGAAGAAGCCACTGCTGCCCG  
 GCTGTTGCGTTTGTGCTGCATCTAGGGGAGAATGCACCGAAACCTTACGGAATCGGATCAGAGAAGTAG  
 AAGCAGAGGGCAAGAAGCTCACGATGGACATGAAGGTGAAAGAAGACCAATCAGAGAAGTAACTAA  
 AGTCCAGGAGCTTCGGAAATATAAGGAAAATGAGAAGGACACTGAGGTGTTAATGTCAGCCCTCTCAGCC  
 ATGCAAGACAAAACAGCACCTGGAGAACAGCTTAAGTGCAGAGACGAGAAATCAAGCTGGACCTGTTCT  
 CCGCACTGGGCGATGCAAGCGGCAGCTCGAGATTGCCCAAGGACAAATCCTTCAGAAAAGATCAGGAAAT  
 CAAGGACCTAAAACAGAAGATAGCCGAAGTCAATGGCCGTCATGCCAGCATAACATACAGTGCAGCCACC  
 AGCCCCCTGAGCCCTGTTTCCCCCACTACTCTTCCAATTTGTGGAGACCAGCCCTCTGGACTTGACC  
 CCAATGCCTCTGTTTACCAGCCCTGAAGAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC207091 protein sequence  
Red=Cloning site Green=Tags(s)

MKRRNADCSKLRRLKRNRITEGIYGSTFLYLKFLVWVWVLLADVFLEFRFEYLWPFWLFIRSVYDSFR  
 YQGLAFSVFFVCAFTSNIIICLLFPIQWLFFAASYVWVQYVWHTERGVCLPTVSLWILFVYIEAAIRF  
 KDLKNFHVDLCRPFAAHCIGYPVVTLGFGFKSYVSYKMRLRKQKEVQKENEFYMQLLQQALPPEQQMLQK  
 QEKEAEEAAKGLPDMSSILIHNGGIPANKLSTTLPEIEYREKGEKDKDAKKHNLGINNNILQPVD  
 SKIQEIEYMENHINSKRLNNDLVGSTENLLKEDSCTASSKNYKNASGVVNSSPRSHSATNGSIPSSSSKN  
 EKKQKCTSKSPSTHKDLMENCIPNNQLSKPDALVRLEQDIKKLKADLQASRQVEQELRSQISSLSSTERG  
 IRSEMQLRQENELLQNKLNNAVQMKQDKQNISQLEKKLKAQEARSFVEKQLMEEKRKKLEEATAAR  
 AVAFAAASRGECTETLRNRIRELEAEGKLTMDMKVKEDQIRELELKVQELRKYKENEKDEVLMSALSA  
 MQDKTQHLNSLSAETRIKLDLFSALGDAKRQLEIAQQQILQKQDEIKDLKQKIAEVMVMPSTITYSAAT  
 SPLSPVSPHYSSKFVETSPSGLDPNASVYQPLKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6518\\_g09.zip](https://cdn.origene.com/chromatograms/mk6518_g09.zip)

**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.

**RefSeq:** [NM\\_018202.6](#)

**RefSeq Size:** 3993 bp

**RefSeq ORF:** 1995 bp

**Locus ID:** 55219

**UniProt ID:** [Q8N5G2](#)

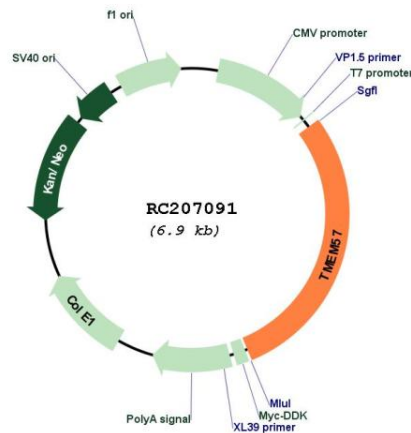
**Cytogenetics:** 1p36.11

**Protein Families:** Transmembrane

**MW:** 76.2 kDa

**Gene Summary:** Plays a role in the regulation of neuronal activity.[UniProtKB/Swiss-Prot Function]

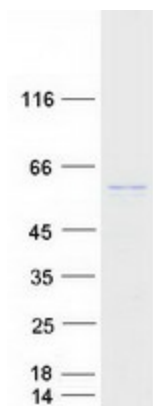
**Product images:**



Circular map for RC207091



Western blot validation of overexpression lysate (Cat# [LY413247]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207091 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MACO1 protein (Cat# [TP307091]). The protein was produced from HEK293T cells transfected with MACO1 cDNA clone (Cat# RC207091) using MegaTran 2.0 (Cat# [TT210002]).