

Product datasheet for **RC205169**

C20orf132 (MROH8) (NM_152503) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C20orf132 (MROH8) (NM_152503) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C20orf132
Synonyms:	C20orf131; C20orf132
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC205169 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCCTGTCCCGCAGGGGAAGGGGATCCCGCTGGCCGGCTCTCGAGCGGCGACTAGTAACTCCCGC
 GGGCGACAGCCCTCTCCCAAAGAGTGCCGGCCGCGGGCCCTGTCTATAAGCCACGCGCAACTCCTCAC
 CCGGCGCGCCATTCTCCGAGCAGTCCCGCCGAGTCCGAGCCGCGGGCTGACTTCCGCTCGGAAAG
 TGGCTCCAAGAGCCGCCACAGGGGACGCCAGGGACTCGCGCAGGCTCTGCGGGCCAGGATGAGTTCTA
 AGCACAGGATCTGTAGTCAGGAAGAAGTGTGATCCCCTGTGCCTATGACAGTGATTAGAAAAGTGTGGA
 TTTGGAGCTGAGCAACTAGAGATTATTAAGAAAGGCTCAAGTAGCATTGAACTGACAGACTGGACATC
 CCTGACATCCCTGGACTCCATTGTGAGCCCTGTACATAGCCCCAGACACTGACCCAACAGGACCCGC
 TCAGTGAGGCCATTGTTGAGAACTGATCCAGTCCATCCAGAAGTTTTCAATGGTGAGCTAAAGGGTGA
 ACTTGAAGGCTGAAATTCCTAGGAGATCTGTCTCTCAGCCAAGCTTACCTTATGATGAAACCGCA
 AAATCATTCAATCACAGCCACATAGCAGACATTGTGCATACCTTAAATGTACTGGTACAAGAGGAACGCC
 CGCATTCTCTGTCCAGTCCATGCGCCAGGAGTCTTTGTACCATCGCTGATCTCAGTTACCAAGATGT
 CCATTTGCTGTTGGGCTCTGAAGATCGAGCTGAGTTGTTCACTTACCATCAAGAGTATAATCACTCTG
 CCCTCTGTAAGGACCTTACCCAGATACAGGAAATCATGCCCAATGGGACCTGCAACACAGAGTGTCTTT
 ACAGGCAGACGTTTCAGGCATTCTGAGATGCTCCAGAGTTGGTGGTAAAAGACCCACATTTGGAAAA
 TCTTGACACCATTAAGCACTTGGTCCCCTGGTTACAGTCAGTCAAAGACCATGAGCGGGAACGGGCC
 ACGGCCAGCATGGCTCAAGTTCTGAAGTGCCTATCCAAACATCTCAACTGAAGCTTCCACTGCGATTCC
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 TCTGTGCCAGTTATCCATAATCAGCCAGCCTAGAGTCCGCCAACAAATCATAAATACCGTGAGTTTATT
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 CACCTGGCTGAGGTGTGGAGAATGCTGTGGTGGAGCTTCCAGCAGCAGCTGGATTCTGTGGAGGCTCC
 TGAGGAAGCTGCAGAAATGCCATATGAGCCTGCACAGGAGAAGATGGCATATGTGGCTGTGGCTGCAAC
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 CTCATGACACTGCTTATCCAGATTATCACAGCATCGGCCTCACCATGTCTGATGTGCGATCCCAAGTG
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 TCTCCTCTCAGAACATGCTGCTTGAGGAATCAACATCATGAAAAAGAATAAAGGATGGGCTCTCCTG
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 TGCAGGCTTTTTTGTGGAGCTTCTCCGGAGTCCAGTGGCCAAGAGACTGCCAGCATATACTCTGTTGCC
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 TTGTTGGACACCAGGAGATGAGAGAAGACATCAAGAGCCTGTTGCCATACATTGTAGACAGCTTGGTGA
 AACCGATGAGAAGATCGTTCTGTGAGCCATCCAGATACTCCTGCAACTTGTAGAACAAATGGATTTCACT
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 CCGTGACTCTCTTGGAGCCGCATAAAGTCTGTAAAAAACCAGATAAGAAGAGTATAGAGAACCAAGT
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 CAAGTCTAACTATATGTGCCAGTTCCTGAAGTGAAGCTGCCCGAGAAGTGTACTCAAAGATCCCT
 GGCACATCAAACCTACTGAAGCAGGAACAATCTGCAGATTCTTTGAAAAAAAGTGAAGGGGAAAAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC205169 protein sequence
 Red=Cloning site Green=Tags(s)

MPLSRRGRGSRLAGSRAATSNLPRATALSPKSAGRGALSI SHAQLLTRRRHSSEQVPESEPRADFRSGK
 WLQEPATGDARDSRQALRARMSSKHRICSQEEVVIPCA YDSDSEVDLELSNLEI I KKGSSSIELTDLDI
 PDIPGLHCEPLSHSPRHLTQQDPLSEAI VEKLIQSIQKVFNGELKGELEKLFKFLGDLSSL S QALPYDETA
 KSF I HSHIADIVHTLNLVLVQEERPHLS SSMRQEVFVTIADLSYQDVHLLLGSEDRAELFSLTIKSIITL
 PSVRTLTQIQEIMPNGTCNTECLYRQTFQAFSEMLQSLVVKDPHLENLDTI I KHLVPWLQSVK DHERERA
 TASMAQVLKCLSKHLNLKPLRFQRLGHLVALMALLCGDPQEKVAEEAAEGIHSL LHITLRLKYITHDKK
 DQQLKRALTKREFLELHSSAAKFCYNCPFRIAQVFEGFLDSNELCQFIMTTFDTLKLKHPCIQRSAG
 ELLLTAKNTESQFEKVEIMGVICAQLSII SQPRV RQIIINTVSLFISRPKYTDIVLSFLLCHPVPYNR
 HLAEVWRMLSVELPSTTWILWRLLRKLQKCHNEPAQEKMAYVAVAATDALYEVFLGNRLRAATFRLFPQL
 LMTLLIQIHHSIGL TMSDVIDIPSGLYTEQVEPSEVTPLCFAMQAAKTL L LRTCCLEFNIMEKNKGWALL
 GKG DGH L QGLFLLANALLERNQLLAQKVMYLLVPLLNRGNDKHKLTSAGFFVELLRSPVAKRLPSIYSVA
 RFKDWLQDGNHLFRILGLRGLYNLVGHQEMREDIKSLLPYIVDSLRETDEKIVLSAIQILLQLVRTMDF
 TLAAMRTLFLSLFGDVRSDVHRFSVTLFGAAIKSVKNPDKKSIENQVLDL VPLL LYSQDENDAVAEESR
 QLTICAQFLKWKLPREVYSKDPWHIKPTEAGTICRF FEKKVQGEN

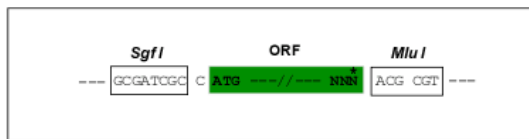
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6775_c01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



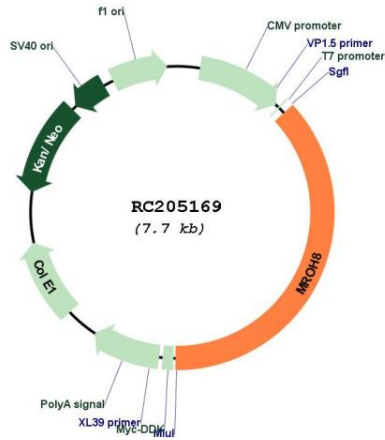
* The last codon before the Stop codon of the ORF

ACCN: NM_152503

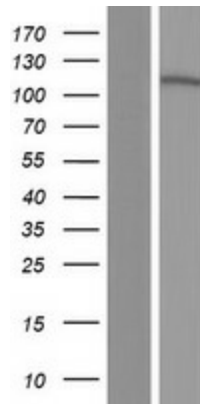
ORF Size: 2871 bp

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.
RefSeq Size:	3498 bp
RefSeq ORF:	3159 bp
Locus ID:	140699
UniProt ID:	Q9H579
Cytogenetics:	20q11.23
MW:	108.2 kDa
Gene Summary:	The protein encoded by this gene belongs to the maestro heat-like repeat family. The exact function of this gene is not known, however, in a genome-wide association study using hippocampal atrophy as a quantitative trait, this gene has been associated with Alzheimer's disease (PMID:19668339). Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2013]

Product images:



Circular map for RC205169



Western blot validation of overexpression lysate (Cat# [LY407508]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205169 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).