

Product datasheet for RC217206

MED12 (NM_005120) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MED12 (NM_005120) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MED12
Synonyms:	ARC240; CAGH45; FGS1; HOPA; Kto; MED12S; OHDOX; OKS; OPA1; TNRC11; TRAP230
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC217206 representing NM_005120 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCCCTTCGGGATCTTGAGCTACGAACACCGGCCCTGAAGCGGCCGGCTGGGGCTCCCGATG
TTTACCCTCAGGACCCAAACAGAAGGAGGATGAACTGACGGCCTTGAATGTAACAAGTTTCAATAA
CCAGCCTGCTGTCTTGGGGATGAGCATGGCAGTGCCAAGAACGTGAGCTTCAATCCTGCCAAGATCAGT
TCCAATTCAGCAGCATTATTGCAGAGAAATTACGTTGTAATACCCTTCTGACTGGTGCAGGAAGC
CCCAAGTGAACCAAGGATAACTTCTGGCTGGTACTGCACGATCCAGAGTGCATTAACACTTGGTT
CACTGACTTGGCTGGCACCAAGCCACTCACGCAACTAGCCAAAAAGGTCCCATTTTCAGTAAGAAGGAA
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AAGGATGGGCATGAGATCTCCTCAGATGATGATGCTGTGGTGTGCTATTGCTATGTGAATGGGCTGTGAGCT
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Protein Sequence: >RC217206 representing NM_005120
 Red=Cloning site Green=Tags(s)

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 QQQQQQQQQQQQQHQQQQQQAAPPQPQPSQPQFQRQGLQQTQQQQQTAALVRQLQQQLSNTQPQPS
 TNIFGRY

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

ACCN: NM_005120

ORF Size: 6531 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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).

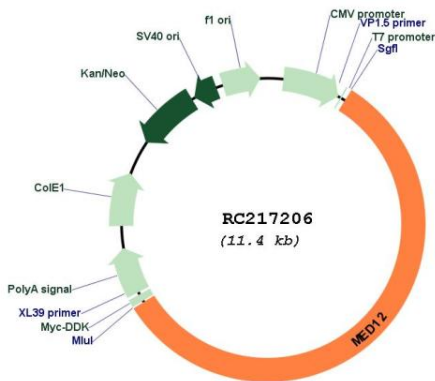
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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_005120.3](#)

RefSeq Size: 6757 bp
RefSeq ORF: 6534 bp
Locus ID: 9968
UniProt ID: [Q93074](#)
Cytogenetics: Xq13.1
Protein Families: Druggable Genome
MW: 242.9 kDa

Gene Summary: The initiation of transcription is controlled in part by a large protein assembly known as the preinitiation complex. A component of this preinitiation complex is a 1.2 MDa protein aggregate called Mediator. This Mediator component binds with a CDK8 subcomplex which contains the protein encoded by this gene, mediator complex subunit 12 (MED12), along with MED13, CDK8 kinase, and cyclin C. The CDK8 subcomplex modulates Mediator-polymerase II interactions and thereby regulates transcription initiation and reinitiation rates. The MED12 protein is essential for activating CDK8 kinase. Defects in this gene cause X-linked Opitz-Kaveggia syndrome, also known as FG syndrome, and Lujan-Fryns syndrome. [provided by RefSeq, Aug 2009]

Product images:



Circular map for RC217206