

Product datasheet for MR225918

Med12 (NM_021521) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Med12 (NM_021521) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Med12
Synonyms: 230kDa; Mopa; OPA-1; Tnrc11; Trap230
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry2 (PS100063)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR225918 representing NM_021521
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGCTTTCGGGATCTTGAGCTATGAACACCGACCCCTGAAGCGGCTGCGGCTGGGGCCTCCCGATG
 TGTACCCCAAGATCCCAAACAGAAGGAGGATGAACTGACGGCTTTGAATGTAACAAGGTTTCAATAA
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 TCCAATTCAGCAGCATCATCGCAGAGAAGTTAAGGTGTAATACTCTCTCTGACTGGTGCAGGAAGT
 CCCTAATGAACCAAGACAACCTCTGGCTGGTACTGCAAGATCTCAGAGTGTATTAACACCTGGTT
 CACTGACCTGGCTGGCACCAACCCTCACACACCTAGCCAAAAAGGTCCCCATTTTCAGTAAAAAGGAA
 GAAGTATTTGGGTATTTGGCCAAATACACGGTGCCTGTGATGCGGGCTGCCTGGCTCATTAGATGACTT
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AGTAAGGATGGTCATGAGATTTCTCTGATGATGATGCTGTGGTATCATTATTGTGTGAATGGGCTGTAA
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CTTCAACAACAGCTCTCTAATACCCAGCCACAGCCAGCACCACATATTTGGACGCTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR225918 representing NM_021521
 Red=Cloning site Green=Tags(s)

MAAFGILSYEHRPLKRLRLGPPDVYPQDPKQKEDEL TALNVKQGFNNQPAVSGDEHGSAKNVNFNPAKIS
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 EVFGYLAKYTPVMRAAWLIKMTCAYYAAMSETKVKKKNTADPFTEWTQIITKYLWEQLQKMAEYYRPGP
 AGSGGCGSTIGPLPHDVEMAIRQWDYNEKLALFMFQDGMldrHEFLTWVLECFEKIRPGEDELLKLLPL
 LLRYSGEFVQSAYLSRRLAYFCTRRLALQLDGVSSHSHVIAAQSTSSLPTTPAPQPPTSSTPSTPFDL
 LMCPQHRPLVFGLSILQTIILLCCPSALVWHYSLTDSRIKtGSPldHLPiAPSNLPMPEGNSAFTQQVRA
 KLREIEQQIKERGQAVEVRWsfDKQeATAGFTIGrVLHTLEVldSHsfERSDFsNSLdSLCNrIFGLGP
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 APSAPIFQDvLLQFLDTQAPMLTDPRSESERVEFFNLVLLFCeLIRHdVfSHNMYTCTLIrSGDLAFGAP
 GPRPPSPFDPTDDPERKEAEGSSSKLEDPGLSESMDIDPSSSVLFEDMEKPDFSLFSPTMPCEGKGP
 SPEKPDVEKEKPPAKEKIEGTLGILYDQPRHVQYATHFPIQEEscSHECNQRLVVLFGVGKQRDDARH
 AIKKITKdILKVLNRKGTAEtdQLAPIVPLNPGDLTFLGGEDGQKRRRRNRPeAfPTAEDIFAKFQHLShY
 DQHQVTAQVSRNVLEQITSFALGMSYHLPLVQHVQFIFDLMEYSLsISGLIDFAIQLLNELSVVEAELL
 KSSDLVGSYTTSLCLCIVAVLRHYHAclILNQDQMAQVFEGLCGVVKHGmNRSDGSSAERCILAYLYDLY
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 RYSFVCnALMHVCVGHHPDRVNDIAILCAELtGYCKSLSAEWLGVlKALCCSSNNGTCGFNDLLCNVDV
 SDLsFHDSLATfVAILIARQCLLEdlIRCAAIPsLLNAACEQDSEPGARLTCRILLHLFKTPQLNpCQ
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 LRQQQQQQQQQQQQQQQQQQQQQQQQQQQQPHQQQQQAAPPQPQPQSQPQFORQGLQQTQQQQQTAALVRQ
 LQQQLSNTQPQPSTNIFGRY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/jc1463_e03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

ACCN: NM_021521

ORF Size: 6570 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_021521.2](#), [NP_067496.2](#)
RefSeq Size: 8464 bp

RefSeq ORF: 6573 bp

Locus ID: 59024

UniProt ID: [A2AGH6](#)

Cytogenetics: X D

MW: 245 kDa

Gene Summary: Component of the Mediator complex, a coactivator involved in the regulated transcription of nearly all RNA polymerase II-dependent genes. Mediator functions as a bridge to convey information from gene-specific regulatory proteins to the basal RNA polymerase II transcription machinery. Mediator is recruited to promoters by direct interactions with regulatory proteins and serves as a scaffold for the assembly of a functional preinitiation complex with RNA polymerase II and the general transcription factors. This subunit may specifically regulate transcription of targets of the Wnt signaling pathway and SHH signaling pathway (By similarity).[UniProtKB/Swiss-Prot Function]