

## Product datasheet for **MC225218**

### Med12 (NM\_021521) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Med12 (NM\_021521) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Med12  
**Synonyms:** 230kDa; Mopa; OPA-1; Tnrc11; Trap230  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC225218 representing NM\_021521  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGCGGCTTTCGGGATCTTGAGCTATGAACACCGACCCCTGAAGCGGCTGCGGCTGGGGCTCCCGATG  
TGTACCCTCAAGATCCCAACAGAAGGAGGATGAACTGACGGCTTTGAATGTAACAAGGTTTCAATAA  
CCAGCCTGCTGTCTCTGGGGACGAACATGGCAGTGCCAAGAACGTCAACTCAATCCTGCCAAGATCAGT  
TCCAATTCAGCAGCATCATCGCAGAGAAGTTAAGGTGTAATACTCTCTCTGACACTGGTCGCAGGAAGT  
CCCTAATGAACCAGAAGGACAACCTTCTGGCTGGTACTGCAAGATCTCAGAGTGCTATTAACACCTGGTT  
CACTGACCTGGCTGGCACCAAACTACTCACACCTAGCCAAAAAGGTCCCATTTTTCAGTAAAAAGGAA  
GAAGTATTTGGGTATTTGGCCAAATACACGGTGCCTGTGATGCGGGCTGCCTGGCTCATTAAAGTACTT  
GTGCCTACTATGCAGCAATGTCTGAGACTAAGGTTAAGAAGAAAAATACTGCTGACCCCTTCACTGAATG  
GACTCAAATCATCACAAGTACTTGTGGGAGCAGCTACAGAAGATGGCTGAGTACTATCGCCAGGGCCT  
GCAGGAAGTGGAGGCTGTGGTTCTACTATAGGGCCTTTGCCCATGATGTAGAGATGGCCATCAGGCAGT  
GGGATTACAATGAGAAGCTCGCCTTGTTCATGTTTCAGGATGGAATGCTGGACAGACATGAGTTCCCTGAC  
TTGGGTGCTTGAGTGTTTTGAGAAAATACGCCCTGGAGAAGATGAATTGCTTAAATTGCTGCTTCCCTA  
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GGAGATTGGCTCTCCAGCTGGATGGTGTGAGCAGCCACTCATCTCATGTAGTCTGCTCAGTCAACAAG  
TTCTCTGCCCACTACCCAGCACCTCAGCCCCAACTAGCAGTACACCCTCGACTCCCTTATGAGCCTG  
CTTATGTGCCCTCAGCATCGTCCCTGGTTTTTGGCCTCAGCTGTATCCTTCAGACCATCCTTCTGTGTT  
GCCCTAGTGCCCTAGTTTGGCACTACTCATTGACTGATAGCCGAATTAAGACCGGCTCACCCTTGACCA  
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AGTAAGGATGGTCATGAGATTTCTCTGATGATGCTGTGGTATCATTATTGTGTGAATGGGCTGAA



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GCTGCAAACGCTCAGGTCGGCATCGTGCTATGGTAGTAGCCAACTCCTAGAGAAGAGACAAGCAGAAAT  
TGAGGCTGAGCGCTGCGGAGAATCTGAAGCAGCTGATGAGAAGGGCTCCGTCGCCTCTGGTTCCTTTCC  
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TCTACCAAAACAAAAGATCTCCTGGGAGCTTTTGGAGGCTGAAGCCATCAACAGCACCAGTGCAT  
GGGCTGGTTTGGCACAGTCCGAGTGGACCGCAGAGTGGCAGGAGGGAGGAGCAGCAGCGGCTGTTGCT

CTATCATACCCACCTGAGGCCTCGACCCAGAGCCTATTACCTGGAACCTACCTCTGCCCCAGAAGAT  
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 CAGGGGCTGCTCCTCCGAGCACTGAGGAGCGCAAAAAGAAGTCTACCAAGGGCAAAAACGCAGCCAGCC  
 AGCCACCAAGAACGAGGACTATGGCATGGGGCCAGGTCGGAGTGGCCCTATGGTGTGACAGTGCCTCCA  
 GACCTTACACCATGCAAACTCTGGTTCTATATCCCACCTTAGCTACAGGCAAAGCTCCATGGGCCTGT  
 ATACCAAAAACAGCCACTACCTGCTGGTGGCCCTCGTGTGGATCCATACCGCCCGTGCATTACCAAT  
 GCAAAAAGCTGCCAACTCGACCACTTATCCCGGTGTGCTGCCTACAACCTATGTCTACTGTATGGGCCTA  
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 GCCAACAGCTCCAGGCAAGATACAGAGTCAGGGGATGTTGGGACAGTCATCTGTCCATCAGATGACCCC  
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 CACACAGGCCCTGCAGGTACCATGGTGGCCCCAGCTACTCCAGCCAGCCTTATCAGAGCACCCACCCTT  
 CTACCAATCCTACTTTGTAGATCTACCCGCCACCTGCAACAGCGGCCAGTGGCTATGTGCATCAGCA  
 GGCCCCAACCTATGGGCATGGACTGACTTCCACTCAAAGGTTTTACACCAGACTGCAGCAGACACCC  
 ATGATGGGTACCATGACTCCGTTGAGTGCCAGGGTGTCCAGGCAGGCGTCCGTTCAACTCCATCTGCTC  
 TGAGCAGCAGCAACAACAGCAGCAGCAGCAACAGCAGCAGCAGCAACAGCAGCAGCAGCAACAACA  
 ACAGCAGCAGCAGCAGCAACAACAACAGCAGTACCATATCCGACAGCAACAGCAGCAGCAGCAGATG  
 CTACGGCAACAGCAGCAACAACAGCAACAGCAGCAGCAGCAACAGCAGCAGCAGCAACAACAACAGC  
 AACAGCAGCAGCAGCAGCCACACAGCAGCAGCAGCAGGAGCTCCTCCCAACCCAGCCCCAGTCCCA  
 GCCCAGTTCCAGCGCCAGGGCCTGCAGCAGACCCAGCAGCAGCAACAGCAGCAGCTTTGGTCCGGCAA  
 CTTCAACAACAGCTCTCTAATACCCAGCCACAGCCAGCCACCAACATATTTGGACGCTACTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM\_021521
- Insert Size:** 6573 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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

**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]