

## Product datasheet for **MR216888**

### Med23 (NM\_001166416) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Med23 (NM\_001166416) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Med23  
**Synonyms:** 130kDa; 3000002A17Rik; Crsp3; ESTM7; mKIAA1216; Sur2; X83317  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR216888 representing NM\_001166416  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGTACCGATGGAGACGCAACTGCAGAGCATTTTCGAGGAGGTGGTAAAACAGAAATTATAGAAGAGG  
CCTTCCCAGGAATGTTTATGGATACCCCGAGGATGAAAAACAAAATAATTAGCTGCTTGGCGGCCTT  
CCGGCAGTTTTGGAGTGGACTTCTCAGGAGTCTCATGAACAGTGTGTTCACTGGATTGTTAAATTTATT  
CATGGCCAACACAGCCCCAAAAGAATTTCTTCTCTATGACTGCTTAGCAATGGCAGTTGAGACTGGTC  
TCCTTCCACCCAGGATGGTTTGTGAATCTTTGATAAACTCTGACTCTCTTGAATGGGAAAAGAACACAGCT  
TTGGGCCTTAACATTTAAGCTGGTTTCGGAAAATCATTGGAGGAGTGGATTACAAGGGTGTTCGAGACCTT  
CTCAAAGCGATTTTGGAGAAAATCTTGACAATCCCAAATACAGTGAGCTCTGCTGTTGTCCAGCAGCTTC  
TGGCAGCAAGAGAGGTTATAGCTTATATCTTAGAACGAAATGCCTGCCTATTGCCGGCCTACTTTGCAGT  
CACAGAGATCAGAAAATATATCCTGAGGGAAAATCCACACTGGTTACTAGGAAAATGGTATCAGAC  
TTTGTGGATACCTTCAGGCCACAGCAAGGATTAACCCATTTGTGGCCGATGCAGTCTTCTGCCAGTTG  
TGAACAACCTCGGAGCCATCTGTAACCTCATGGAACCTGGACCCGCAACTCTGCGATTTCTTTGAAAGG  
CCTTTTGCATATGATAAGGATCTGTTTGAACCGCAGACTGCTTTGTTGAGATATGACTGGAGCAACCT  
TATCCAGGGATATGGTCTGCAATATGCTAGGTTTAAATAAGCAGACCTTGAACATTGCTCAGCACAAGC  
AGCGCTGCCCTGTGCTGGAGGACCAGTTGGTGGACCTGGTGGTGTACGCCATGGAGAGGTGAGAGCCGA  
GGAGAAGTTTACGATGGGGAAACCAGCCAGCTCCTGTGGCAGCACCTTCCAGCCAGCTCATTTTCTTT  
GTGCTTTTCCAGTTTCCAGTTTCCACATATGGTCTCTCTCCACCAGAAGTTAGCAGGGCGAGGAC  
TGATTAAGGGCGAGACCATCTGATGTGGGTGCTGCTGCAGTTTCAATTTCTGGAAGTATTCAGAAAATGC  
CCTCGTACTTCTCCCTGTCATGAAGCTCTTTGACCTGCTGTACCCGAGAAGGAGTGTATCCCAGTT  
CCTGATATTAACAAACCCAGTCAACGCACGCCTTTGCAATGACTTGTATTTGGATTTCATCTTAATAGAA  
AAGCTCAAATGGCGACTCCACGCTCCAGATCCCAATACCCATTCCCTGAAGCTGCACCATGAGTTCT  
CCAGCAGAGTCTGAGAAATAAAGCTTACAGATGAATGACTATAAGATTGCCCTGCTATGTAACCGGTAT  
TCCACAAACTCAGAGTGTTTTACGTTACCTATGGGAGCTCTGGTAGAAACTATTTATGAAATGGAATTA



[View online »](#)

TGAGAGTGCCTCTCCCTGGAACGAGCTGTTTGGCCTCAGCATCAGTGACTCCCTTACCGATGAACCTCCT  
GGATTCAGTACGGTGCATGCCAAGATGAGCCTTATTCACAGCATTGCAACCAGAGTGATAAACTGGCT  
CATACGAAATCCAGTGTTCGCTGGCTCCAGCCCTAGTGGAACTTACAGCCGTTTACTGGTCTACATGG  
AAATTGAGTCTTTGGGCATCAAAGGATTTATCAGTCAGCTCCTGCCACTGTCTTCAAGTCCCACGCCTG  
GGGCATCTGCACACTGCTGGAGATGTTTCAGCCACCGAATGCACCACATTAGCCCACTACCGAGTT  
CAGTCCTGAGCCATCTCCACACTGGCTGCAGTCGCACAGACCAACCAGAACCCAGTCCATCTGTGTG  
TGGAGAGCACTGCAGTGGCTCATCACAGCCCTGGGAAGCTCAGAGGTCAGCCGAGTTCACGGCTTT  
CCTCAATGATCCCAAACAGTGCTGTCCGCCAATCTGAAGAGCTGAACCGAGCCTTGATCCTGACCTTA  
GCCAGAGCAACCCACGTACAGATTTTTTACAGGATCTGATTCAATACAGGAACTTGGTGAAAGATA  
TCCTTCAGACCATCATGAACTTACTCCTCATAACTGGGCTTCACATACCCTTAGCTGTTTTCCAGCCCC  
TCTGCAGGCTTTCTTCAAGCAAATAACGTGCCAGGAAAGCCGTTTTAATCTGAAGAAGAATGTGAA  
GAAGAGTACAGGAAGTGAAGTCAATGACTGATGAAAACGAGATCATCACCAGTTCTCTGTGCAGGGCT  
TCCCTCCACTCTCTCTGTCTCCTCTGGAAGATGCTCCTGGAGACGGATCATATTAGTCAGATCGGCTA  
CAAGGTCTGGAGAGGATTGGGCCAGGGCCCTGGTGGCCATGTGAGAACATTTGCAGATTTCTGGTG  
TATGAGTTCTCTACGTACGAGGAGTCACTCAACTCAATAAGTGCATTGAAATCTCAACGACATGGTGT  
GGAAGTACAACATTGTCACGCTGGACAGACTCATTCTCTGCCTGGCTATGCGTAGTCATGAAGGAAATGA  
AGCCCAGGTTTGTATTTTCATAATTCAGTTGCTGTTGCTCAAACCAAATGACTTCAGAAACCGAGTAAGT  
GACTTTGTGAAGGAGAATTTCCAGAGCACTGGCTCCAGAGTACTGGCACACCAAGCACATGAGCTACC  
ACAAGAAATATCCCGAGAAGCTGATTTTGAAGCCCTGGCAGAGCAGGTTGACCCCTCTGTACCAATCCA  
GTCCCCCTATCTGCCATCTACTTTGAAAATGTGTGTCTCCGGTTCCTCCAGTATTTGATATAGTAATC  
CACAGGTTTTAGAGTTGCTTCCAGTGTCCAAATCACTAGAGACTCTCCTGGATCACCTAGGGGGCTTAT  
ATAAATCCATGACCGGCCAGTACTTATCTGTATAACTTTGCACTATTATGAAATGTGCCTGAGAAA  
CCGTGACCATCTCAAACGAAAATTGTCCATGCAATCATTGGCTCCCTCAAAGATAACCGGCCACAGGGC  
TGGTGTCTCAGTGATACCTACCTGAAGCATGCTATGAATGCACGGGAGGACAACCCCTGGGTTCCGGAGG  
ACTCCTACTACTGCAAGCTGATTGGCCGACTGGTAGACACCATGGCGGGCAAGTCTCCAGGACCCTTCCC  
AAACTGTGACTGGAGATTCAATGAGTTTCCCAACCCCGCTGCCACGCTCTGCATGTGACGTGTGTGAA  
CTCATGGCCTTGGCGGTTCCAGGCAAAGATGTGGGGAATGCCCTTCTCAATGTCGTCTGAAAAGCCAGC  
CCTTAGTGCCAAGGGAGAACATTACAGCGTGGATGAATGCAATTGGTCTGATCATCACGGCCCTCCAGA  
GCCGTAAGTGTGCTTCATGACCGAATTGTGAATGTGATCAGCAGTTCTAGCCTGACGTGAGAGACA  
GAGTGGTTCGGTTACCCGTTCCGCTCTTCGACTTACCAGTGTGACCCAGTCTACTCGGAGATGAGCT  
GCAGCTATACGTTAGCTTAGCCATGCCGTGTGGCACCCTCCAGCATCGGGCAGCTCTCGCTTATCCC  
AAAGTTTCTCACTGAGGCGCTTCTCCCGTGGTGAAGACTGAGTTCCAGTTGCTCTACGTGTACCATCTT  
GTGGGGCCATTTCTACAGAGGTTCCAACAGGAGAGAACCCTGGTGCATGATTGAGATTGGCGTGGCATT  
ATGACATGCTGTTGAATGTAGACCAGTGCAGCAGCACTTAAATTACATGGACCCCATCTGCGACTTCT  
GTATCATATGAAGTATATGTTTACTGGTGCAGTGTGAAAAGAGCAAGTAGAGAAGATTATCTGTAATTTA  
AAGCCGGCTTTAAAGCTTCGCTTCGATTATCACGCACATTAGCAAGATGGAGCCGGCAGTGCCACCCC  
AGGCCCTCAACAGCGGTCTCCAGCACCTCAGTCTAACAGGTGCCAGCATCTCTGCCGGTGACTCAG

AGCGGACCGACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
TGGATTACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR216888 representing NM\_001166416  
 Red=Cloning site Green=Tags(s)

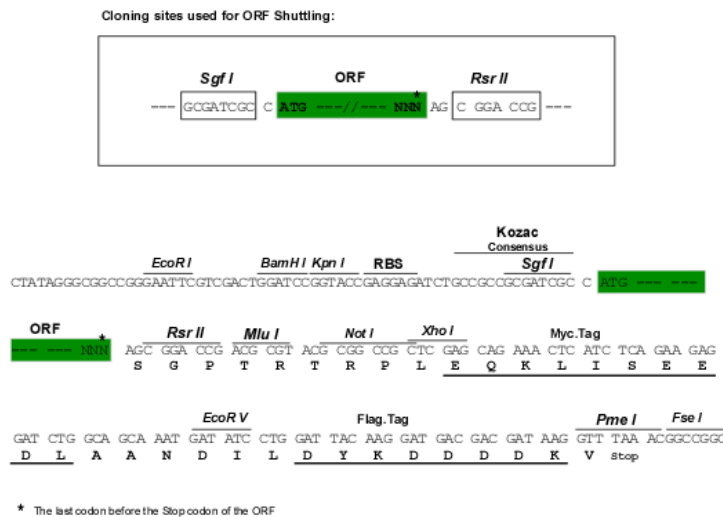
MVPMETQLQSIFEEVVKTEIIEEAFPGMFMDTPEDEKTKLISCLAAFRQFWSGLSQESHEQCQVQWIVKFI  
 HGQHSPKRISFLYDCLAMAVETGLLPPRMVCELSINSDLEWERTQLWALTFKLVRKIIGGVVDYKGVDRDL  
 LKAILEKILTIPTNVSSAVVQQLLAAREVIAYILERNAACLLPAYFAVTEIRKLYPEGKLPHWLLGNLVSD  
 FVDTFRPTARINSICGRCSLLPVVNSGAICNSWKLDPATLRFPLKGLLPYDKDLFEPQTALLRYVLEQP  
 YSRDMVCNMLGLNKQTLNIAQHKQRCPVLEDQLVDLVVYAMERSETEEKFDDGGTSQLLWQHLSSQLIFF  
 VLFQFASFPHMVLSLHQKLAGRGLIKGRDHLMWVLLQFISGSIQKNALADFLPVMKLFDLLYPEKECIPV  
 PDINKPQSTHAFAMTCIWIHLNRKAQNGDSTLQIPIPHSLKLNHHEFLQQLSRNKSQMNQDYKIALLCNAY  
 STNSECFITLPMGALVETIYNGIMRVPLPGTSCLASASVTPLPMNLLDSLTVHAKMSLIHSIATRVIKLA  
 HTKSSVALAPALVETYSRLLVYMEIESLGIKGFISQLLPTVFKSHAWGILHTLLEMFHRMHHIQPHYRV  
 QLLSHLHTLAAVAQTNQNQLHLCVESTALRLITALGSSEVQPQFTRFLNDPKTVLSAESEELNRLILTL  
 ARATHVDTFFTGSDSIQGTWCKDILQTIMNFTPHNWASHTLSCFPAPLQAFFKQNNVPQESRFNLKKNVE  
 EYRKKWSMTDENEIITQFSVQGFPLFLCCLKMMLLETDHISQIGYKVLERIGARALVAHVRTFADFLV  
 YEFSTAGGQQLNKICIEILNDMVWKYNIIVTLDRLILCLAMRSHEGNEAQVCYFIIQLLLLKPNDFRNRVS  
 DFVKENSPEHWLQSDWHTKHMSYHKYPEKLYFEGLAEQVDPVPIQSPYLPYIFGNVCLRFLPVDIVI  
 HRFLELLPVSKSLETLLDHLGGLYKFHDRPVTYLYNTLHYYEMCLRNRDHLKRKLVAHIIIGSLKDNRPQG  
 WCLSDTYLKHAMNAREDPWPEDSYCKLIGRLVDTMAGKSPGPFPCDWRNFNEFPNPAHALHVTCVE  
 LMAVPGKDVGNALLNVVLKSQPLVPRENITAWMNAIGLIITALPEPYWIVLHDRVIVNVISSSSLTSET  
 EWVGYPFRLFDFTACHQSYSEMCSYTLALAHAVWHHSSIGQLSLIPKFLTEALLPVVKEFQQLVYVYHL  
 VGFPLQRFQQERTRCMIEIGVAFYDMLLNVDQCSTHLNMDPICDFLYHMKYMTGDSVKEQVEKIIICNL  
 KPALKLRLRFITHISKMEPAVPPQALNSGSPAPQSNQVPASLPVTQ

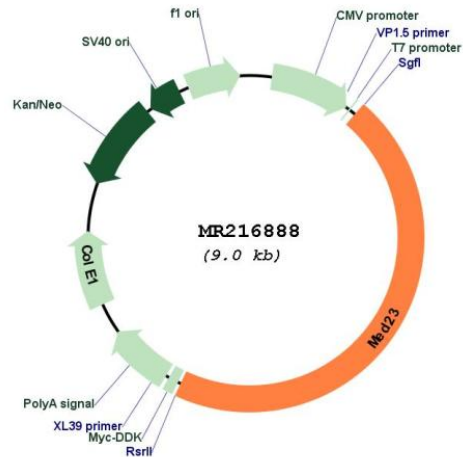
SGPTRRRLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-RsrII

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_001166416

**ORF Size:** 4128 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\\_001166416.1](#), [NP\\_001159888.1](#)

**RefSeq Size:** 4946 bp

**RefSeq ORF:** 4131 bp

**Locus ID:** 70208

**UniProt ID:** [Q80YQ2](#)

**Cytogenetics:** 10

**MW:** 157.5 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 pre-initiation complex with RNA polymerase II and the general transcription factors (By similarity). Also required for transcriptional activation subsequent to the assembly of the pre-initiation complex. Required for transcriptional activation by adenovirus E1A protein. Required for ELK1-dependent transcriptional activation in response to activated Ras signaling. [UniProtKB/Swiss-Prot Function]