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Product datasheet for RC201874

TRAP100 (MED24) (NM_014815) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRAP100 (MED24) (NM_014815) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TRAP100
Synonyms:	ARC100; CRSP4; CRSP100; DRIP100; MED5; THRAP4; TRAP100
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC201874 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGGTGGTCAACCTGAAGCAAGCCATTTTGCAAGCCTGGAAGGAGCGCTGGAGTGACTACCAATGGG
CAATCAACATGAAGAAATTCTTTCCTAAAGGAGCCACCTGGGATATTCTCAACCTGGCAGATGCGTTACT
AGAGCAGGCCATGATTGGACCATCCCCCAATCCTCTCATCTTGTCCTACCTGAAGTATGCCATTAGTTCC
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TCCAGGCATTGCTGGACATCATGGACATGTTTTGTGACCGTCTGAGCTGTCACGGCAAAGCAGAGGAATG
CATCGGACTGTGCCGAGCCCTTCTTAGCGCCCTCCACTGGCTGCTGCGCTGCACGGCAGCCTCTGCAGAG
CGGCTGCGGGAGGGGCTGGAGGCCGGCACTCCAGCCGCTGGGGAGAAGCAGCTTGCCATGTGCCTTCAGC
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ATTCATCAATTTGAATGAATTCACAACCTATGGCAGCGAAGAAAGCACCAAACCGGCCTCCGTCCGGGCC

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CTGCTGTTTGACATCTCCTTCCTCATGCTGTGCCATGTGGCCCAGACCTATGGTTCAGAGGTGATTCTGT
CCGAGTCGCGCACAGGAGCTGAGGTGCCCTTCTTCGAGACCTGGATGCAGACCTGCATGCCTGAGGAGGG
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC201874 protein sequence
Red=Cloning site Green=Tags(s)

MKVVNLKQAILQAWKERWSDYQWAINMKKFFPKGATWDILNLADALLEQAMIGPSPNPLILSYLKYAISS
QMVSYSSVLTAISKFDDFSRDLCVQALLDIMDMFCDRLSCHGKAEECIGLCRALLSALHWLLRCTAASAE
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EDYISLFPLDDVQPSKLMRLLSSNEDDANILSSPTDRSMSSSLSASQLHTVNMRDPLNRVLANLFLLISS
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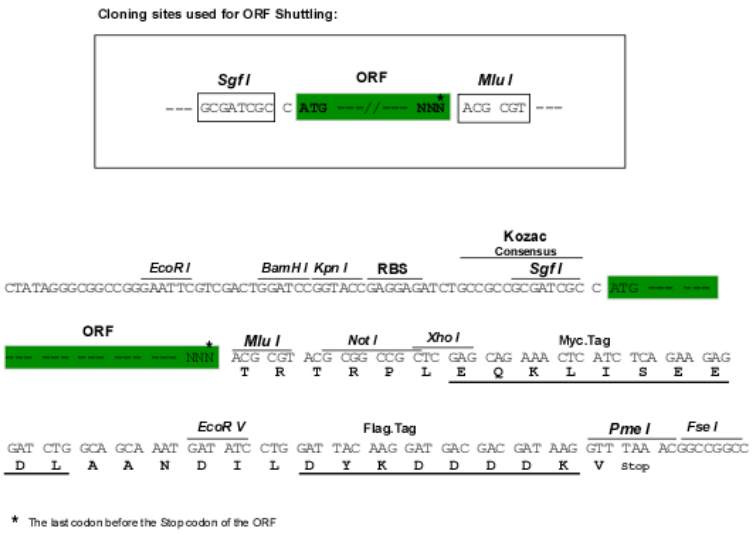
VAAKAIAAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6218_g04.zip

Restriction Sites: SgfI-MluI

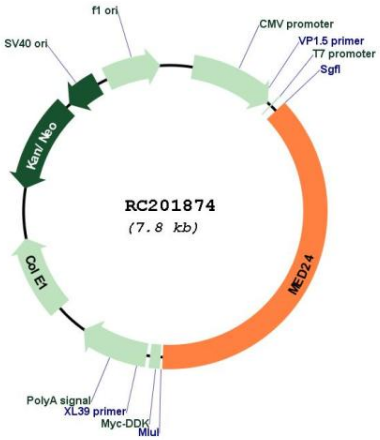
Cloning Scheme:



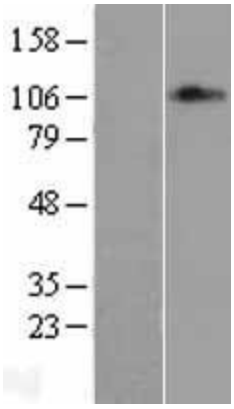
ACCN:	NM_014815
ORF Size:	2967 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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_014815.2, NP_055630.2
RefSeq Size:	3735 bp
RefSeq ORF:	2970 bp

Locus ID:	9862
UniProt ID:	O75448
Cytogenetics:	17q21.1
Protein Families:	Druggable Genome, Transcription Factors
MW:	110.3 kDa
Gene Summary:	This gene encodes a component of the mediator complex (also known as TRAP, SMCC, DRIP, or ARC), a transcriptional coactivator complex thought to be required for the expression of almost all genes. The mediator complex is recruited by transcriptional activators or nuclear receptors to induce gene expression, possibly by interacting with RNA polymerase II and promoting the formation of a transcriptional pre-initiation complex. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

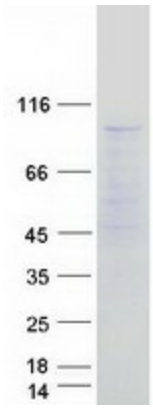
Product images:



Circular map for RC201874



Western blot validation of overexpression lysate (Cat# [LY415024]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201874 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MED24 protein (Cat# [TP301874]). The protein was produced from HEK293T cells transfected with MED24 cDNA clone (Cat# RC201874) using MegaTran 2.0 (Cat# [TT210002]).