

Product datasheet for **RC214461**

C17orf81 (ELP5) (NM_203414) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C17orf81 (ELP5) (NM_203414) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C17orf81
Synonyms:	C17orf81; DERP6; HSPC002; MST071; MSTP071
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC214461 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACGCCATCAGAGGGCGCCAGAGCAGGGACCGGACGCGAGTTGGAGATGTTGGACTCGCTGTTGGCCT
TGGGCGGCCTGGTGTCTTCGGGATCCGTGGAGTGGGAGGGCGCAGTCTCTTGAAGCGCTTGTC
GAAATCTGCACTGTGTGGGAGCAAGTGCATATCCTGGGCTGTGAAGTGAAGGAGGAGTTTCGTGAA
GGTTTTGACTCTGATATCAACAATCGGCTGGTTTACCATGACTTCTCAGAGACCCTCTCAACTGGTCAA
AAACTGAGGAGGCCTTCTGGGGGCGCTGGGAGCCTTGAGAGCCATGTGCAAGAGGACAGATCCTGT
TCCTGTACCACTTGTCTCGATTCACTCAGCTGGCTGCTACTTCGCCTTCCCTGCACCACACTCTGCCAG
GTCCTGCATGCTGTGAGCCATCAGGACTCTTGCTGGTACAGCTCCTCAGTGGGAAAGTGAGTGTGC
TGGGCTTGCTACATGAAGAGCTTCATGGACCAGGCCCTGTGGGAGCTCTCAGCAGCCTTGCTCAGACTGA
GGTGACCTGGGCGGTACCATGGCCAGGCCCTCGGCCACATCCTGTGTGCGGAGGCCCGACAGCGCCCA
ACTGACCAGACTCAGTGGTTCTCCATCCTTCCGGACTTCAGCCTGGATCTCCAAGAGGGGCCCTCTGTAG
AGTCCCAGCCCTACTCCGATCCTCATATACCCCGGTGGATCCCACAACCTATTTGACCTTTAACCTTCA
CCTGTCCAAGAAAGAGAGAGAAGCCAGAGATAGCCTGATCCTGCCCTTCCAGTTCACTTTGAAAAACAG
CAGGCTCTCCTGCGGCCTAGGCCAGGGCAGGCTACCAGCCACATCTTCTATGAGCCAGATGCTTATTATG
ACCTGGACCAAGAAGACCAGATGACGACCTGGATATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC214461 protein sequence
Red=Cloning site Green=Tags(s)

MTPSEGARAGTGRELEMLDSELLALGGLVLLRDSVEWEGRSLKALVKKSALCGEQVHILGCEVSEEEFRE
 GFDDSDINNRLVYHDFRDPLNWSKTEEFPGGPLGALRAMCKRTDPVPVTIALDSLWLLLRPCTTLCQ
 VLHAVSHQDSCP GDSSSVGKVSVLG LLHEELHGPVPGALSSLAQTEVTLGGTMGQASAHILCRRPRQRP
 TDQTQWFSILPDFSLDLQEGPSVESQPYSDPHIPPVDP TTHLTFNLHL SKKEREARDSLILPFQFSSEKQ
 QALLRPRPGQATSHIFYEPDAYYDLQEDPDDDLDI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6403_f09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_203414

ORF Size: 948 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_203414.2](#)

RefSeq Size: 1525 bp

RefSeq ORF: 951 bp

Locus ID: 23587

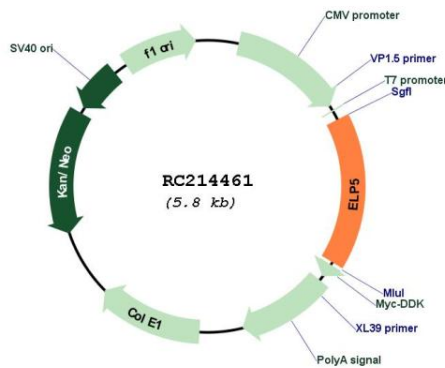
UniProt ID: [Q8TE02](#)

Cytogenetics: 17p13.1

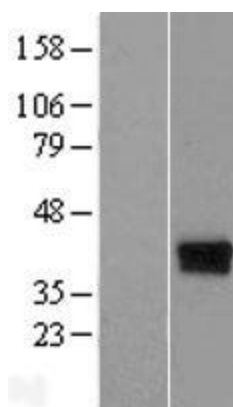
MW: 34.9 kDa

Gene Summary: Acts as subunit of the RNA polymerase II elongator complex, which is a histone acetyltransferase component of the RNA polymerase II (Pol II) holoenzyme and is involved in transcriptional elongation. Elongator may play a role in chromatin remodeling and is involved in acetylation of histones H3 and probably H4. Involved in cell migration (By similarity). May be involved in TP53-mediated transcriptional regulation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC214461



Western blot validation of overexpression lysate (Cat# [LY404351]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214461 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).