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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:

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>RC214461 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACGCCATCAGAGGGCGCCAGAGCAGGGACCGGACGCGAGTTGGAGATGTTGGACTCGCTGTTGGCCT
TGGGCGGCCTGGTGCTGCTTCGGGATTCCGTGGAGTGGGAGGGGCGCAGTCTCTTGAAGGCGCTTGTCAA
GAAATCTGCACTGTGTGGGGAGCAAGTGCATATCCTGGGCTGTGAAGTGAGCGAGGAAGAGTTTCGTGAA
GGTTTTGACTCTGATATCAACAATCGGCTGGTTTACCATGACTTCTTCAGAGACCCTCTCAACTGGTCAA
AAACTGAGGAGGCCTTTCCTGGGGGGCCGCTGGGAGCCTTGAGAGCCATGTGCAAGAGGACAGATCCTGT
TCCTGTCACCATTGCTCTCGATTCACTCAGCTGGCTGCTACTTCGCCTTCCCTGCACCACACTCTGCCAG
GTCCTGCATGCTGTGAGCCATCAGGACTCTTGTCCTGGTGACAGCTCCTCAGTGGGGAAAGTGAGTGTGC
TGGGCTTGCTACATGAAGAGCTTCATGGACCAGGCCCTGTGGGAGCTCTCAGCAGCCTTGCTCAGACTGA
GGTGACCCTGGGCGGTACCATGGGCCAGGCCTCGGCCCACATCCTGTGTCGGAGGCCCCGACAGCGCCCA
ACTGACCAGACTCAGTGGTTCTCCATCCTTCCGGACTTCAGCCTGGATCTCCAAGAGGGGCCCTCTGTAG
AGTCCCAGCCCTACTCCGATCCTCATATACCCCCGGTGGATCCCACAACTCATTTGACCTTTAACCTTCA
CCTGTCCAAGAAAGAGAGAGAAGCCAGAGATAGCCTGATCCTGCCCTTCCAGTTCAGTTCTGAAAAACAG
CAGGCTCTCCTGCGGCCTAGGCCAGGGCAGGCTACCAGCCACATCTTCTATGAGCCAGATGCTTATTATG
ACCTGGACCAAGAAGACCCAGATGACGACCTGGATATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Protein Sequence:

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

MTPSEGARAGTGRELEMLDSLLALGGLVLLRDSVEWEGRSLLKALVKKSALCGEQVHILGCEVSEEEFRE
GFDSDINNRLVYHDFFRDPLNWSKTEEAFPGGPLGALRAMCKRTDPVPVTIALDSLSWLLLRLPCTTLCQ
VLHAVSHQDSCPGDSSSVGKVSVLGLLHEELHGPGPVGALSSLAQTEVTLGGTMGQASAHILCRRPRQRP
TDQTQWFSILPDFSLDLQEGPSVESQPYSDPHIPPVDPTTHLTFNLHLSKKEREARDSLILPFQFSSEKQ
QALLRPRPGQATSHIFYEPDAYYDLDQEDPDDDLDI

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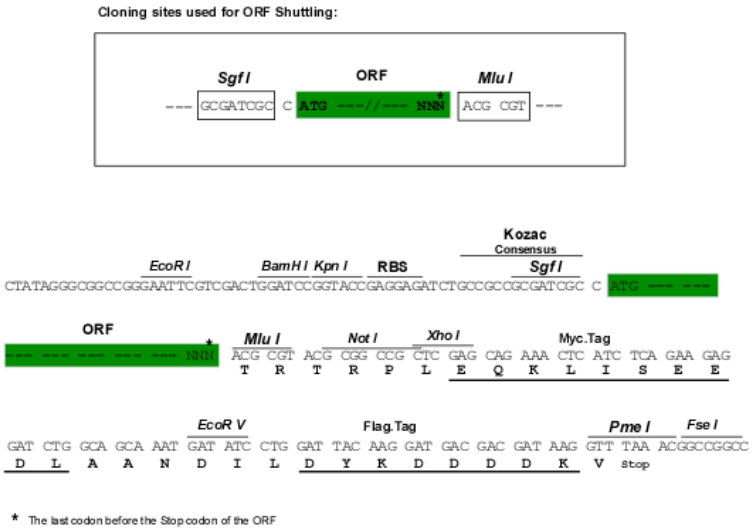
Chromatograms: https://cdn.origene.com/chromatograms/mk6403_f09.zip

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).

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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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_203414.2

RefSeq Size: 1525 bp

RefSeq ORF: 951 bp

Locus ID: 23587

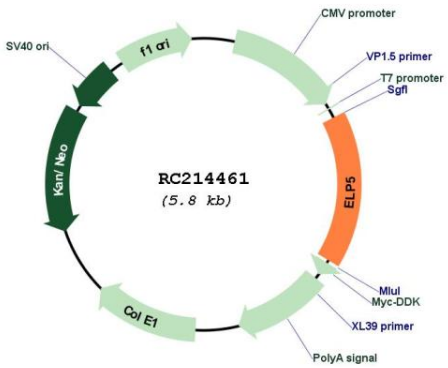
UniProt ID: Q8TE02

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

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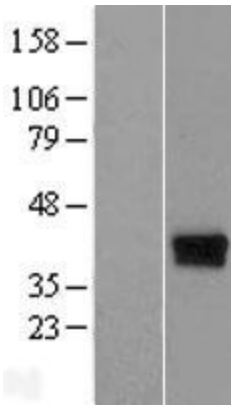

Western blot validation of overexpression lysate (Cat# [LY404351]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214461 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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