

Product datasheet for **RG214461**

C17orf81 (ELP5) (NM_203414) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	C17orf81
Synonyms:	C17orf81; DERP6; HSPC002; MST071; MSTP071
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG214461 representing NM_203414
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGACGCCATCAGAGGGCGCCAGAGCAGGGACCGACGCGAGTTGGAGATGTTGGACTCGCTGTTGGCCT
TGGGCGGCCTGGTCTGCTTCGGGATTCCGTGGAGTGGGAGGGCGCAGTCTCTTGAAGGCGCTTGTCAA
GAAATCTGCACTGTGTGGGAGCAAGTGCATATCCTGGGCTGTGAAGTGAAGGAGGAAGAGTTTCGTGAA
GGTTTTGACTCTGATATCAACAATCGGCTGGTTTACCATGACTTCTTCAGAGACCCTCTCAACTGGTCAA
AAACTGAGGAGGCCTTTCTGGGGGGCCGCTGGGAGCCTTGAGAGCCATGTGCAAGAGGACAGATCCTGT
TCCTGTCAACATTGCTCTCGATTCACTCAGCTGGCTGCTACTTCGCCTTCCCTGCACCACTCTGCCAG
GTCCTGCATGCTGTGAGCCATCAGGACTCTTGCTGCTGGTGACAGCTCCTCAGTGGGAAAGTGAGTGTGC
TGGGCTTGCTACATGAAGAGCTTCATGGACCAGGCCCTGTGGGAGCTCTCAGCAGCCTTGCTCAGACTGA
GGTGACCCTGGGCGGTACCATGGGCCAGGCCTCGGCCACATCCTGTGTCGGAGGCCCGACAGCGCCCA
ACTGACCAGACTCAGTGGTTCTCCATCCTTCCGGACTTCAGCCTGGATCTCCAAGAGGGGCCCTCTGTAG
AGTCCCAGCCCTACTCCGATCCTCATATACCCCGGTGGATCCCAACTCATTTGACCTTTAACCTTCA
CCTGTCCAAGAAAGAGAGAGAAGCCAGAGATAGCCTGATCCTGCCCTTCCAGTTTCAGTTCTGAAAAACAG
CAGGCTCTCTGCGCCTAGGCCAGGGCAGGCTACCAGCCACATCTTCTATGAGCCAGATGCTTATTATG
ACCTGGACCAAGAAGACCCAGATGACGACCTGGATATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG214461 representing NM_203414
Red=Cloning site Green=Tags(s)

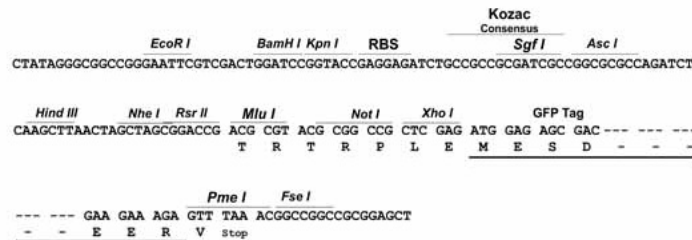
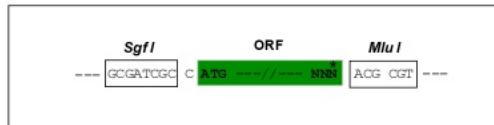
MTPSEGARAGTGRELEMLDSLALGGLVLLRDSVEWEGRSLKALVKKSALCGEQVHILGCEVSEEEFRE
GFDSDINNRLVYHDFRDPLNWSKTEEAFFGGPLGALRAMCKRTDPVPVTIALDSLWLLRLPCTTLCQ
VLHAVSHQDSCPGDSSSVGKSVLGLLHEELHGPVPGALSSLAQTEVTLGGTMGQASAHILCRRPRQRP
TDQTQWFSILPDFSLDLQEGPSVESQPYSDPHIPPVDPPTHTLTFNLHLSKKEREARDSLILPFQFSSEKQ
QALLRPRPGQATSHIFYEPDAYYDLQEDPDDDLDI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



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.

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

RefSeq: [NM_203414.1](#), [NP_981959.1](#)

RefSeq Size: 1486 bp

RefSeq ORF: 951 bp

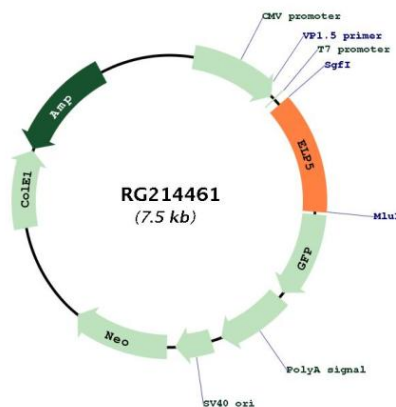
Locus ID: 23587

UniProt ID: [Q8TE02](#)

Cytogenetics: 17p13.1

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 RG214461