

Product datasheet for **RC233431**

KRTAP4-6 (NM_030976) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KRTAP4-6 (NM_030976) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KRTAP4-6
Synonyms:	KAP4.6; KAP4.15; KRTAP4-15; KRTAP4.15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC233431 representing NM_030976 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGTCAGCTCCTGTTGTGGTCCGTCTGCTCTGACCAGGGCTGTGGCCTGGAGACCTGCTGCCGCCCCA
GCTGCTGCAGACCACCTGCTGCAGGACCACCTGCTGCCGCCCCAGCTGCTGTGTGTCCAGCTGCTGCAG
ACCCAGTGCTGCCAGTCTGTGTGCTGCCAGCCACCTGCTGCCGTCCTCCAGCTGCTGTCCAGCTGCTGT
CAGACCACCTGCTGCAGGACCACCTGCTGCCGCCCTAGCTGCTGTGTATCCAGCTGCTGCAGACCCAGT
GCTGCCAGTCTGTGTGCTGCCAGCCACTTGTGCCGTCCAGCTGCAGCATCTCCAGCTGCTGTGCCCC
CAGCTGCTGTGTGTCCAGGTGCTGCAGGTCCAGTGTGCCAGTCTGTGTGCTGCCAGCCAACTGCTGC
CGTCCCAGCTGCTGCATCTCCAGCTGCTGCCGCCCTCTTGTGTGAATCCAGCTGCTGCCGCCCGTGT
GCTGCCGCCCTGCTGCTGCCTGCGTCCAGTCTGTGGCCGAGTCTCCTGCCACACCACTTGTATCGCCC
AACCTGTGTCAATTCACCTGCCCCCGTCCCTTGTGTGTGCCTCCTTGTGTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC233431 representing NM_030976 Red=Cloning site Green=Tags(s)
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MVSSCCGSVCSDQGCLETCCRPSCCQTTCRTTCCRPSCCVSSCCRPQCCQSVCCQPTCCRPSCCPSCC
QTTCRTTCCRPSCCVSSCCRPQCCQSVCCQPTCCRPSCSISCCRPSCCVSRCCRSQCCQSVCCQPTCC
RPSCSISCCRPSCCESSCCRPCCCRPCCCLRPVCGRVSCHTTCYRPTCVISTCPRPLCCASSCC

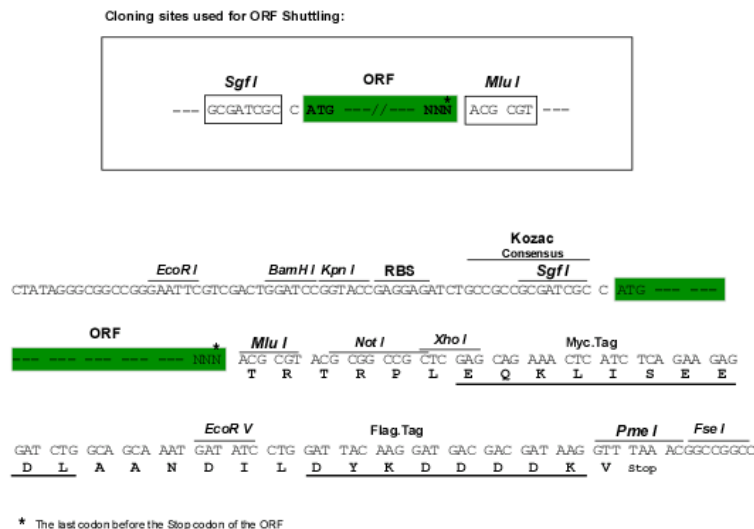
TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_030976

ORF Size: 615 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_030976.1](#), [NP_112238.1](#)

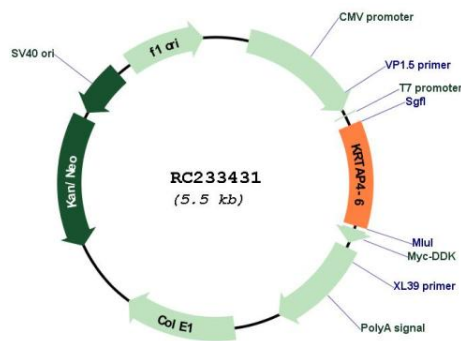
RefSeq Size: 1073 bp

RefSeq ORF: 618 bp

Locus ID: 81871
UniProt ID: [Q9BYQ5](#)
Cytogenetics: 17q21.2
MW: 22.3 kDa
Gene Summary:

In the hair cortex, hair keratin intermediate filaments are embedded in an interfilamentous matrix, consisting of hair keratin-associated proteins (KRTAP), which are essential for the formation of a rigid and resistant hair shaft through their extensive disulfide bond cross-linking with abundant cysteine residues of hair keratins. The matrix proteins include the high-sulfur and high-glycine-tyrosine keratins.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC233431