

Product datasheet for RC224828

KRTAP5-6 (NM_001012416) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Tag: Myc-DDK
Symbol: KRTAP5-6
Synonyms: KRTAP5.6
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC224828 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTGCACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCTGCTGTGGCTGCTCTGGAGGCTGTGGCTCCGGCTGTGGGGCTGTGGCTCTGGCTGTGGGGCT
GTGGGTCCAGCTGCTGTGTGCCATCTGCTGCTGCAAGCCCGTGTGCTGCTGTGTGCCAGCCTGTTCTTG
CACCAGCTGTGGCTCTTGTGGGGCTCCAAGGGGTGCTGTGGCTCTTGTGGGGCTCCAAGGGGGCTGT
GGCTCTTGTGGGGCTCCAAGGGAGGCTGTGGCTCTTGTGGCTGCTCCAGTGCAGTTGCTGCAAGCCCT
GCTACTGTTCTCAGGCTGTGGGTATCCTGCTGCCAGTCCAGTGTGCAAGCCCTGCTGTTCCAGGC
CAGCTGCTGTGCCCCATTGTGCCAGTGCAAAATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC224828 protein sequence
Red=Cloning site Green=Tags(s)

MGCCGCSGGCGSGCGGCGSGCGGSSCCVPICCCKPVCCVPACSTSCGSCGSGKCCGSCGSGKGGC
GSCGSGKGGCSCGCSQCSCCKPCYCSSGCGSSCCQSSCKPCCSQASCCVPICCQCKI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6605_d01.zip

Restriction Sites: SgfI-MluI



Cloning Scheme:



ACCN: NM_001012416

ORF Size: 387 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.

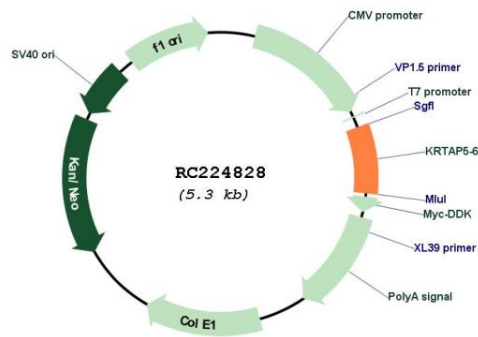
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001012416.1](#), [NP_001012416.1](#)

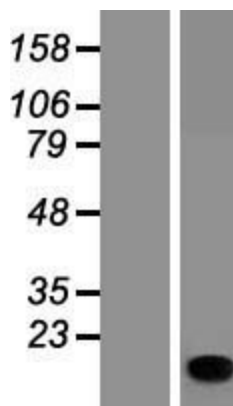
RefSeq Size: 561 bp
 RefSeq ORF: 390 bp
 Locus ID: 440023
 UniProt ID: [Q6L8G9](#)
 Cytogenetics: 11p15.5
 MW: 11.8 kDa

Gene Summary: In the hair cortex, hair keratin intermediate filaments are embedded in an interfilamentous matrix, consisting of hair keratin-associated protein (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 RC224828



Western blot validation of overexpression lysate (Cat# [LY422854]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224828 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).