

## Product datasheet for **RC223131**

### **KRTAP4-3 (NM\_033187) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	KRTAP4-3 (NM_033187) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KRTAP4-3
Synonyms:	KAP4.3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC223131 ORF sequence, <b>codon optimized</b> . Due to the complexity of NM_033187, the ORF clone is codon optimized for mammalian Expression. The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTTTCTTCTTGTGTGGTTCTGTGTCTGACCAGAGTTGCGGGCAGGGACTCGGCCAAGAGTCCT  
GTTGTAGGCCTAGCTGTTGCCAGACCACCTGCTGCCGACTACATGCTGCCGCCCCAGCTGCTGTATTAG  
TTCTTGCTGCAGGCCAAGCTGTTGTATAAGTAGTTGTTGCAAACCTAGTTGTTGCCGGACCACCTGCTGT  
AGGCCTTCCTGCTGCATCAGTTCATGTTGCCGGCCCTCATGTTGCATCTCCTCCTGTTGCAAACCCAGCT  
GCTGCAGAACCACATGTTGTAGGCCCTCATGCTGTATCTCCAGCTGTTGCAGACCCAGCTGTTGCATTTT  
CTCCTGTTGTAAGCCGTCTTGTGCCAGACGACATGCTGCAGGCCCTCATGCTGTATCAGCAGTTGTTAT  
AGACCTCAGTGTGCCAGCCAAGTTGCTGCAGACCGGCATGCTGTATTAGCTCATGTTGTCACCCCTCCT  
GCTGTGTAAGCAGTTGTCGGTGCCCATTCCTGTCCAACCACCTGTTGCAGGACAACCTGCTTCCACCC  
AATATGTTGTGAAGCAGCTGTTGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



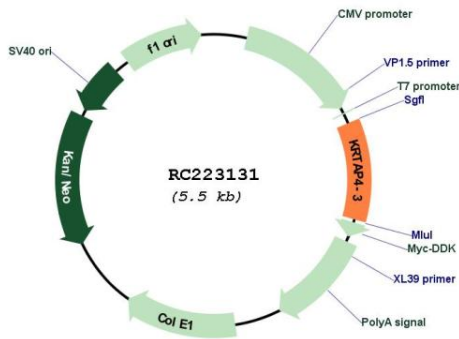
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**RefSeq:** [NM\\_033187.1, NP\\_149443.1](#)  
**RefSeq Size:** 962 bp  
**RefSeq ORF:** 588 bp  
**Locus ID:** 85290  
**UniProt ID:** [Q9BYR4](#)  
**Cytogenetics:** 17q21.2  
**MW:** 20.5 kDa

**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 RC223131