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Product datasheet for RC210980

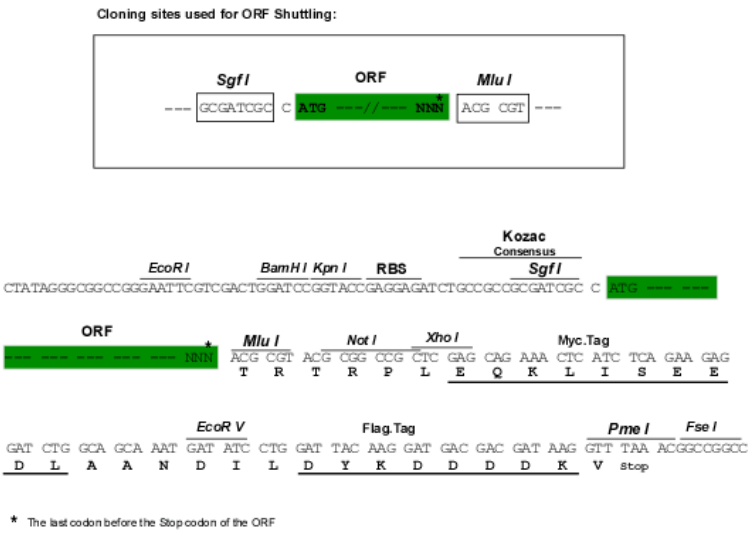
KRTAP22-1 (NM_181620) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KRTAP22-1 (NM_181620) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KRTAP22-1
Synonyms:	KAP22.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC210980 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGAGCTTTGATAACAACTACCATGGTGGCCAGGGCTATGCCAAAGGAGGCCTGGGCTGCAGCTATGGCT GTGGTCATAGCGGCTATGGCTATGCCTGCTACTGCCCATGGTGTTATGAAAGATCTTGGTTTTCTGGCTG CTTC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>RC210980 protein sequence Red=Cloning site Green=Tags(s) MSFDNNYHGGQGYAKGGLGCSYGCGHSGYGYACYCPWCYERSWFSGCF TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk6591_d12.zip
Restriction Sites:	SgfI-MluI

View online »

Cloning Scheme:



ACCN: NM_181620

ORF Size: 144 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).

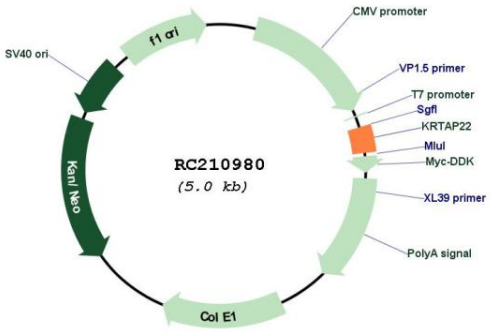
Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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.

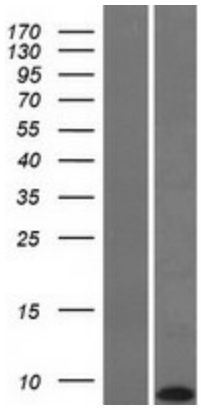
RefSeq: NM_181620.1, NP_853651.1

RefSeq Size:	147 bp
RefSeq ORF:	147 bp
Locus ID:	337979
UniProt ID:	Q3MIV0
Cytogenetics:	21q22.11
MW:	5.3 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 RC210980



Western blot validation of overexpression lysate (Cat# [LY405728]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210980 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).