

Product datasheet for **RC203503**

KRTHA3B (KRT33B) (NM_002279) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KRTHA3B (KRT33B) (NM_002279) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KRTHA3B
Synonyms:	Ha-3II; HA3II; hHa3-II; K33B; KRTHA3A; KRTHA3B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203503 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCTACAACCTTGCCTGCCAGCCTGAGCTGCCGCACCAGCTGCTCCTCCCGGCCCTGTGTCCCC
CCAGCTGCCACGGCTACACCCTGCCCGGGCTGCAACATCCCTGCCAATGTGAGCAACTGCAACTGGTT
CTGCGAGGGCTCCTTCAATGGCAGCGAGAAGGAGACTATGCAGTTCCTGAACGCCGCTGGCCAGCTAC
CTGGAGAAGGTGCGTCAGCTGGAGCGGGACAACCGGAGCTGGAGAACCCTATCCGGGAGCGGTCTCAGC
AGCAGGAGCCCTTGCTGTGCCCCAGCTACCAGTCTACTCAAGACCATTGAGGAGCTCCAGCAGAAGAT
CCTGTGCAGCAAGTCTGAGAATGCCAGGCTGGTGGTGCAGATCGACAATGCCAAGCTGGCTGCAGATGAC
TTCAGAACCAAGTACCAGACGGAGCAGTCCCTGCGGCAGCTGGTGGAGTCCGACATCAACAGCCTGCGCA
GGATTCTGGATGAGCTGACCCTGTGAGGTCTGACCTGGAGGCCAGATGGAGTCCCTGAAGGAGGAGCT
GCTGTCCCTCAAGCAGAACCATGAGCAGGAAGTCAACACCTTGCCTGCCAGCTTGGAGACCCCTCAAC
GTGGAGGTGGACGCTGCTCCCGCTGTGGACCTGAACCAGTCTGAACGAGACCAGGAATCAGTATGAGG
CCCTGGTGGAAACCAACCGCAGGGAAGTGGAGCAATGGTTCGCCACGCAGACCGAGGAGCTGAACAAGCA
GGTGGTATCCAGCTCGGAGCAGCTGCAGTCTACCAGGCGGAGATCATCGAGCTGAGACGCACAGTCAAT
GCCCTGGAGATCGAGCTGCAGGCCAGCACAACCTGCGATACTCTGGAAAACACGCTGACAGAGAGCG
AGGCCCGCTACAGCTCCAGCTGTCCAGGTGCAGAGCCTGATCACCACAGTGGAGTCCAGCTGGCGGA
GATCCGAGTGCCTGGAGCGGCAACAGGAGTATCAGGTGCTGCTGGACGTGCGGGCGCGGCTGGAG
TGTGAGATCAACACATACCGGAGCTGTGGAGAGCGAGGACTGCAAGCTGCCCTCAACCCCTGCGCCA
CCACCAATGCATGTGAAAAGCCATTGGATCCTGTGTCACCAATCCTTGTGGTCTCGTTCCCGCTGTGG
GCCTTGCAACACCTTTGGGTAC

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC203503 protein sequence
Red=Cloning site Green=Tags(s)

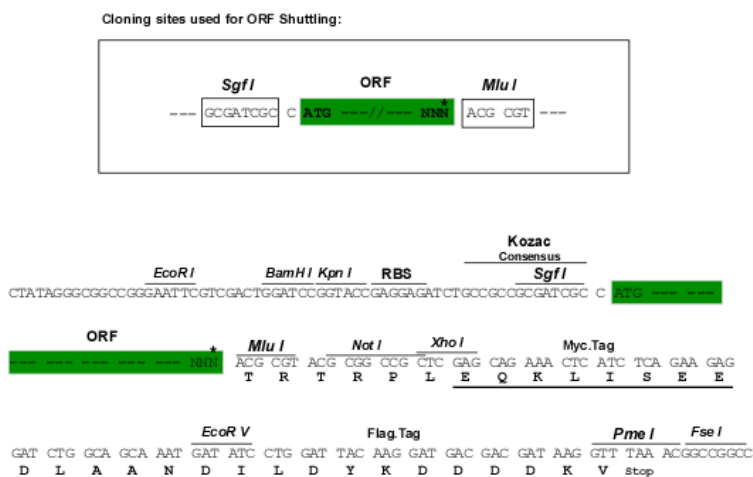
MPYNFCLPSLSCRTSCSSRPCVPPSCHGYTLPGACNIPANVSNCNWFCEGSFNGSEKETMQFLNDRASY
 LEKVRLERDNAELENLIRERSQQEPLLCPSYQSYFKTIEELQKILCSKSENARLVVQIDNAKLAADD
 FRTKYQTEQSLRQLVESDINSLRRILDELTLCRSDLEAQMESLKEELLSLKQNHQEVNLRQLGDRNL
 VEYDAAPAVDLNQVLNETRNQYEALVETNRREVEQWFATQTEELNKQVVSSEQLQSYQAEIIELRRTVN
 ALEIEIQAQHNLRYSLNLTLESEARYSSQLSQVQSLITNVESQLAEIRSDLERQNYEQVLLDVRARLE
 CEINTYRSLLESEDCKLPSNPCATTNACEKPIGSCVTNPCGPRSRCGPCNTFGY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6566_c12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_002279

ORF Size: 1212 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.

RefSeq: [NM_002279.5](#)

RefSeq Size: 1626 bp

RefSeq ORF: 1215 bp

Locus ID: 3884

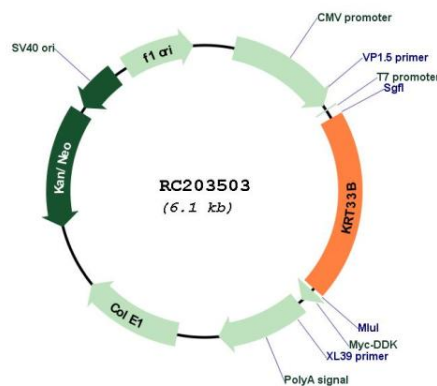
UniProt ID: [Q14525](#)

Cytogenetics: 17q21.2

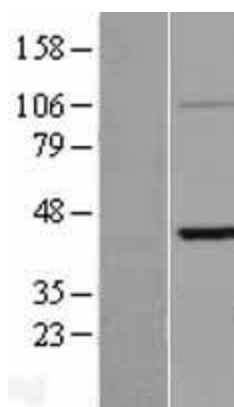
MW: 46.2 kDa

Gene Summary: This gene encodes a member of the keratin gene family. This gene is one of multiple type I hair keratin genes that are clustered in a region of chromosome 17q12-q21 and have the same direction of transcription. As a type I hair keratin, the encoded protein is an acidic protein which heterodimerizes with type II keratins to form hair and nails. There are two isoforms of this protein, encoded by two separate genes, keratin 33A and keratin 33B. [provided by RefSeq, May 2012]

Product images:



Circular map for RC203503



Western blot validation of overexpression lysate (Cat# [LY419431]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203503 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).