

Product datasheet for **SC303166**

KRTHB3 (KRT83) (NM_002282) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KRTHB3 (KRT83) (NM_002282) Human Untagged Clone
Tag:	Tag Free
Symbol:	KRTHB3
Synonyms:	EKVP5; Hb-3; HB3; KRTHB3; MNLIX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC303166 representing NM_002282.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGACCTGTGGCTTCAACTCCATAGGCTGTGGTTCCGCCCTGAAACTTCAGTGTGTCTCTGCCTGC
GGGCCCCGGCCAAGCCGCTGCATCACCGCCGCCCTACCGGGCATCTCCTGTACCGCGCCTC
ACCGGGGGCTTTGGCAGCCACAGCGTGTGCGGGGGCTTCCGCGCCGGCTCCTGCGGACGACGCTTCGGC
TACCGCTCCGGGGCGTGTGCGGACCCAGCCCCCATGCATCACCAACCGTGTGCGTCAACGAGAGCCTC
CTCACGCCCTCAACCTGGAGATAGACCCCAACGCGCAGTGCCTGAAGCAGGAGGAGAAGGAGCAGATC
AAGTCCCTCAACAGCAGATTCGCGGCCCTCATCGACAAGGTGCGCTTCTGGAGCAGCAGAACAAGCTG
CTGGAGACAAAGCTGCAGTTCTACAAAACCGCGAGTGTGCCAGAGTAACCTGGAGCCCCTGTTTGT
GGCTACATCGAGACTCTGCGGGGGAGGCCGAGTGCCTGGAGGCTGACAGTGGGAGGCTGGCCTCAGAG
CTCAACCACGTGCAGGAGGTGCTGGAGGGCTACAAGAAGAAGTATGAAGAAGAAGTAGCACTTCGAGCC
ACAGCAGAGAACGAGTTTGTGGCTCTAAGAAGGATGTGGACTGCGCCTACCTCCGAAGTCAGACCTG
GAGGCCAACGTGGAGGCCCTGATCCAGGAGATTGACTTCTGAGGCGGCTGTACGAGGAGGAGATCCGC
ATTCTCCAATCCCACATCTCAGACACCTCCGTGGTTGTCAAGCTGGACAACAGCCGGGACCTGAACATG
GACTGCATCGTTGCCGAGATCAAGGCACAGTATGATGACATTGCCACCCGTAGCCGGGCTGAGGCCGAG
TCCTGGTATCGCAGCAAGTGTGAGGAGATGAAGGCCACAGTGTACAGGCACGGGGAGACCCTGCGCCGC
ACCAAGGAGGAGATCAACGAGCTGAACCGCATGATCCAGAGGCTGACAGCCGAGGTGGAGAATGCCAAG
TGCCAGAACTCCAAGCTGGAAGCTGCGGTGGCCAGTCTGAGCAGAGGGTGAGGCGGCCCTCAGTGAT
GCCCGCTGCAAGCTGGCCGAGCTGGAGGGCGCCCTGCAGAAGGCCAAGCAAGACATGGCCTGCCTGATC
AGGGAGTACCAGGAGGTGATGAACTCCAAGCTAGGCCTGGATATCGAGATCGCCACCTACAGGCGCCTG
CTGGAGGGCAGGAGCAGAGGCTGTGTGAAGGTGTTGAAGCTGTGAATGTCTGTGTCAGCAGCTCCCGG
GGTGGGGTTGTGTGCGGGGATCTCTGCGTGTGCGGCTCCCGCCGGTGACGGGCAGCGTCTGCAAGTCC
CCCTGCAACGGGAACCTGGTGGTGGAGCACTGGTTTGTGAAGCCCTGTGGCCAGCTGAACACCACCTGT
GGAGGGGGCTCCTGCGGCCAGGGGAGGCATTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_002282

Insert Size: 1482 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_002282.3](#)

RefSeq Size: 1875 bp

RefSeq ORF: 1482 bp

Locus ID: 3889

UniProt ID: [P78385](#)

Cytogenetics: 12q13.13

MW: 54.2 kDa

Gene Summary: The protein encoded by this gene is a member of the keratin gene family. As a type II hair keratin, it is a basic protein which heterodimerizes with type I keratins to form hair and nails. The type II hair keratins are clustered in a region of chromosome 12q13 and are grouped into two distinct subfamilies based on structure similarity. One subfamily, consisting of KRTHB1, KRTHB3, and KRTHB6, is highly related. The other less-related subfamily includes KRTHB2, KRTHB4, and KRTHB5. All hair keratins are expressed in the hair follicle; this hair keratin, as well as KRTHB1 and KRTHB6, is found primarily in the hair cortex. [provided by RefSeq, Jul 2008]