

Product datasheet for **SC122243**

KRT81 (BC021241) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KRT81 (BC021241) Human Untagged Clone
Tag:	Tag Free
Symbol:	KRT81
Synonyms:	ghHkb1; hard keratin, type II, 1; Hb-1; HB1; hHAKB2-1; keratin, hair, basic, 1; Keratin 81; KRTHB1; MLN137
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for BC021241 edited GGCACGAGGGATGAAGGCCACGGTGATCAGGCACGGGGAGACCCTGCGCCGCACCAAGGA GGAGATCAACGAGCTGAACCGCATGATCCAGAGGCTGACGGCCGAGGTGGAGAATGCCAA GTGCCAGAACTCCAAGCTGGAGGCCGCGGTGCCAGTCTGAGCAGCAGGGTGAGGCGGC CCTCAGTGATGCCCGCTGCAAGCTGGCCGAGCTGGAGGGCGCCCTGCAGAAGCCAAGCA GGACATGGCCTGCCTGATCAGGGAGTACCAGGAGGTGATGAACTCCAAGCTGGGCCTGGA CATCGAGATCGCCACCTACAGGCCCTGCTGGAGGGCGAGGAGCAGAGGCTATGTGAAGG CATTGGGGCTGTGAATGTCTGTGTGAGCAGCTCCCGGGCGGGGTCGTGTGCGGGGACCT CTGCGTGTGAGGCTCCCGCCAGTGACTGGCAGTGTCTGCAGCGCTCCGTGCAACGGGAA CGTGGCGGTGAGCACCGCCTGTGTGCGCCCTGCGGCAATTGAACACCACCTGCGGAGG GGGTTCCGTGCGCGTGGGCTCCTGTGGTATCAGCTCCCTGGGTGTGGGTCTTGCGGCAG CAGCTGCCGAAATGTTAGGCACCCCAACTCAAGTCCCAGGCCCCAGGCGTCTTCTCTGC CCTGCCTTGCTTGCCCATCCAGTCCAGGCGCCTGGAGCAAGTGCTCAGTACTTCTCTCT CCACTTTGAAAGACCCCTCCCACTCCTGCCTCACATTTCTGTGTGATCCCCACTTC TGGGCTCTGCCACCCACAGTGGGAAAGGCCACCCTAGAAAGAAGTCCGCTGGCACCCAT AGGAAGGGGCTCAGGAGCAGGAAGGGCCAGGACCAGAACCTTGCCACGGCAACTGCCT TCCTGCCTCTCCCTTCTCTCTGCTCTTGTCTGTGTTCAATAAATTAATGTAGCCA AAAAAAAAAAAAAAAAAAAAAAAAA



[View online »](#)

5' Read Nucleotide Sequence:	>OriGene 5' read for BC021241 unedited GTCAAAATTGTATACGACTCCTATAGGGCGGCCGGAATTCGCACGAGGGATGAAAGCCA CGGTGATCAAGCACGGGGAGACCCTGCGCCGCACCAAGGAGGAGAACAACGAGCTGAACC GCATGATCCAGAGGCTGACGGCCGAGGTGGAGAATGCCAAGTGCCAGAACTCCAAGCTGG AGGCCCGGTGGCCAGTCTGAGCAGCAGGGTGAGGCGGCCCTCAGTGATGCCCCGCTGCA AGCTGGCCGAGCTGGAGGGCGCCCTGCAGAAGGCCAAGCAGGACATGGCCTGCCTGATCA GGGATACCAGGAGGTGATGAACTCCAAGCTGGGCCTGGACATCGAGATCGCCACCTACA GGCGCCTGCTGGAGGGCGAGGAGCAGAGGCTATGTGAAGGCATTGGGGCTGTGAATGTCT GTGTCAGCAGCTCCCGGGCGGGGTCTGTGCGGGGACCTCTGCGTGTCAGGCTCCCGGC CAGTGACTGGCAGTGTCTGCAGCGCTCCGTGCAACGGGAACGTGGCGGTGAGCACCGGCC TGTGTGCGCCCTGCGGCCAATTGAACACCACCTGCGGAGGGGGTTCTGCGGCGTGGGCT CCTGTGGTATCAGCTCCCTGGGTGTGGGTCTTGCAGCAGCAGCTGCCGAAATGTTAGG CACCCCAACTCAAGTCCCAGGCCCCAGGCGTCTTCTGCCCTGCCTTGCTTGGCCCATC CAGTCCAGGCGCCTGGAGCAAGTCTCAGTACTTCTCCTCCACTTTGAAAGACCCCTCC CACTCCTGGCCTCACATTTCTCTGTGTGATCCCCACTTCTGGGCTCTGCCACCCACAG TGGGAAAGGCCACCTAGAAAGAAGTCCCCTGACCCCATAGAAAGGGGGCCTCNAGAGC AGGAAGGGCCAGNACCAGAACCTTTGCCACGGCACTGNCTTNTGNCTT
Restriction Sites:	Please inquire
ACCN:	BC021241
Insert Size:	985 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).
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:	<ol style="list-style-type: none">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:	<u>BC021241.1</u> , <u>AAH21241.1</u>
RefSeq Size:	985 bp
Locus ID:	3887
Cytogenetics:	12q13.13

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 KRTHB3 and KRTHB6, is found primarily in the hair cortex. Mutations in this gene and KRTHB6 have been observed in patients with a rare dominant hair disease, monilethrix. [provided by RefSeq, Jul 2008]