

## Product datasheet for **RC220351**

### **KRT85 (NM\_002283) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	KRT85 (NM_002283) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KRT85
Synonyms:	ECTD4; Hb-5; HB5; hHb5; K85; KRTHB5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC220351 representing NM\_002283  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCGTGCCCTCTACAGGATCAGCTCAGGATCGGGGTCACCAGGAAGTTCAGTCTCTGCTCAGCTG  
 TGGCCCCCAAACCTGGCAACCGCTGCTGCATCAGCGCCGCCCTACCGAGGGGTCTCTGCTACCGAGG  
 GCTGACGGGCTTCGCGCAGCCGACGCTCTGCAACCTGGGCTCTGCGGGCCCCGGATAGCTGTAGGTGGC  
 TTCGAGCCGGCTCTGCGGACGACGCTTCGGCTACCGCTCCGGGGGCGTGTGCGGACCCAGCCCCCAT  
 GCATCACTACCGTGTGGTCAACGAGAGCCTCCTCACGCCCTCAACCTGGAGATCGACCCCAACGCACA  
 GTGCGTGAAGCAGGAGGAGAAGGAGCAGATCAAGTCCCTCAACAGCAGGTTGCGGGCCTTCATCGACAAG  
 GTGCGTCTCTGGAGCAGCAGAACAAGCTGCTGGAGACCAAGTGGCAGTCTACCCAGAACCAGCGCTGCT  
 GCGAGAGCAACCTGGAGCCACTGTTCAAGTGGCTACATCGAGACTCTGCGCGGGAGGCGGAGTGCCTGGA  
 GGCCGACAGCGGGAGGCTGGCCTCAGAGCTCAACCATGTGCAGGAGGTGCTGGAGGGCTACAAGAAGAAG  
 TATGAAGAGGAGGTGGCCCTGAGAGCCACAGCAGAGAATGAGTTTGTCTGTTCTAAAGAAGGACGTGGACT  
 GTGCCTACCTGCGGAAATCAGACCTGGAGGCCAATGTGGAGGCCCTGGTGGAGGAGTCTAGCTTCTGAG  
 GCGCCTCTATGAAGAGGAGATCCGCTTCTCAAGCCACATCTCAGACACCTCGGTCAAGTCAAGATG  
 GACAACAGCCGAGACCTGAACATGGACTGCATCATCGCTGAGTCAAGGCTCAGTATGACGATGTTGCCA  
 GCCGACGCCGGCCGAGGCTGAGTCTGGTACCGTAGCAAGTGTGAGGAGATGAAGGCCACGGTATCAG  
 GCATGGGAGACCCTGCGCCGACCAAGGAGGAGATCAACGAGCTGAACCGCATGATCCAGAGGCTGACG  
 GCCGAGATTGAGAATGCCAAGTCCAGCGTGCCAAGCTGGAGGCTGCTGTGGCTGAGGACAGCAGCAGG  
 GTGAGGCGGCCCTCAGCGATGCCCGTGCAAGCTGGCTGAGCTGGAGGGCCCTGCAGAAGGCCAAGCA  
 GGACATGGCCTGCCTGCTCAAGGAGTACCAGGAGGTGATGAACTCCAAGCTGGGCCTGGACATCGAGATC  
 GCCACCTACAGGCGCTGCTGGAGGCGAGGAACACAGGCTGTGTGAAGGTGTGGCTCTGTGAATGCTCT  
 GTGTCAGCAGCTCCCGTGGTGGAGTCTCTGTGGGGCCCTCTCTACAGCACCACCCAGGGCGCCAGAT  
 CACTTCTGGCCCTCAGCCATAGGCGGCAGCATCACGGTGGTGGCCCTGACTCTGTGCCCCCTGCCAG  
 CCTCGTTCCTCCAGTTCAGCTGCGGGAGTAGCCGGTCCGTCCGCTTTGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC220351 representing NM\_002283  
 Red=Cloning site Green=Tags(s)

MSCRSYRISSGCVTRNFSSCSAVAPKTGNRCCI SAAPYRGVSCYRGLTGFGRSLCNL GSCGPRIAVGG  
 FRAGSCGRSFGYRSGGVCPSPPCITTVSVNESLLTPLNLEIDPNAQCVKQEEKEQIKSLNSRFAAFIDK  
 VRFLEQNKLLLETKWQFYQNQRCCESNLEPLFSGYIETLRREAECVEADSGRLASELNHVQEVLEGYKKK  
 YEEVALRATAENEFVVLKDVDCAYLKSDLEANVEALVEESSFLRRLYEEEIRVLQAHISDTSVIVKM  
 DNSRDLNMDCIIEAIKAQYDDVASRSRAEAEWYRSKCEEMKATVIRHGETLRRTKEEINELNMQRLT  
 AEIENAKQRAKLEAAVAEAEQQGEAALSDARCKLAELEGALQKAKQDMACLLKEYQEVMSKLGDIIEI  
 ATYRRLLEGEHRLCEGVGSVNVCSRSSRGGVSCGGLSYSTTPGRQITSGPSAIGGSITVVPDSCAPCQ  
 PRSSSFSCGSSRSVRFA

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8020\\_b06.zip](https://cdn.origene.com/chromatograms/mk8020_b06.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_002283

**ORF Size:** 1521 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\\_002283.4](#)

**RefSeq Size:** 2508 bp

**RefSeq ORF:** 1524 bp

**Locus ID:** 3891

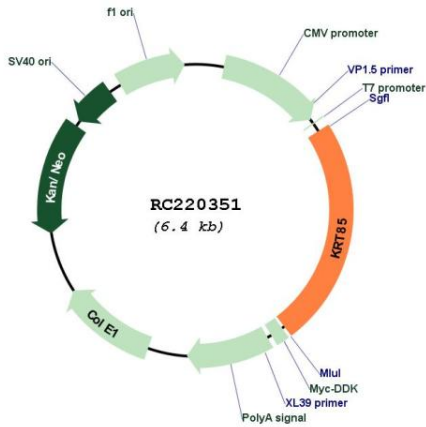
**UniProt ID:** [P78386](#)

**Cytogenetics:** 12q13.13

**MW:** 55.6 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. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RC220351