

Product datasheet for **RC220726**

KRT81 (NM_002281) Human Tagged ORF Clone

Product data:

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|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | KRT81 (NM_002281) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | KRT81 |
| Synonyms: | ghHkb1; Hb-1; HB1; hHAKB2-1; K81; KRTHB1; MLN137 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>RC220726 representing NM_002281
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCTGCGGATCAGGATTTGGTGGGCGCGCCTTCAGCTGCATCTCGGCCTGCGGGCCGCGCCCGGCC
 GCTGCTGCATCACGCGCCGCCCTACCGTGGCATCTCTGCTACCGCGGCCTCACCGGGGCTTCGCGCAG
 CCACAGCGTGTGCGGAGGCTTTGCGGCCGGCTCCTGCGGACGAGCTTCGGCTACCGCTCCGGGGCGGTG
 TCGGGGCCAGTCCCCATGCATCACCACCGTGTGGTCAACGAGAGCCTCCTCACGCCCTCAACCTGG
 AGATCGACCCCAACGCGCAGTGCCTGAAGCAGGAGGAGAAGGAGCAGATCAAGTCCCTCAACAGCAGGTT
 CGCGGCCCTTCATCGACAAGGTGCGCTTCTGGAGCAGCAGAACTGCTGGAGACAAAGTGCAGTTC
 TACCAGAACCGGAGTGTGCCAGAGCAACCTGGAGCCCTGTTGAGGGCTACATCGAGACTCTGCGGC
 GGGAGGCCGAGTGCCTGGAGGCCGACAGCGGGAGGCTGGCCTCAGAGCTTAACCACGTGCAGGAGGTGCT
 GGAGGGCTACAAGAAGAAGTATGAGGAGGAGTTTCTCTGAGAGCAACAGCTGAGAACGAGTTTGTGGCT
 CTGAAGAAGGATGTGGACTGCGCCTACCTCCGCAAGTCAGACCTGGAGGCCAACCTGGAGGCCCTGATCC
 AGGAGATCGACTTCTGAGGCGGCTGTATGAGGAGGAGATCCGCATTCTCCAGTCGCACATCTCAGACAC
 CTCCGTGGTTGTCAAGCTGGACAACAGCCGGGACCTGAACATGGACTGCATCATTGCCGAGATTAAGGCA
 CAGTATGACGACATTGTACCCGCGAGCCGGGCCGAGGCCGAGTCTGGTACCGCAGCAAGTGTGAGGAGA
 TGAAGGCCACGGTGTACAGGCACGGGAGACCTGCGCCGCACCAAGGAGGAGATCAATGAGCTGAACCG
 CATGATCCAAAGGCTGACGGCCGAGGTGGAGAA TGCCAAGTGCCAGAACTCCAAGCTGGAGGCCGCGGTG
 GCTCAGTCTGAGCAGAGGTGAGGCAGCCCTCAGTGTGCCCCGCTGCAAGCTGGCCGAGCTGGAGGGCG
 CCCTGCAGAAGGCCAAGCAGGACATGGCCTGCCTGATCAGGGAGTACCAGGAGGTGATGAATCCAAGCT
 GGGCCTGGACATCGAGATCGCCACCTACAGGCGCCTGCTGGAGGGCGAGGAGCAGAGGCTATGTGAAGGC
 ATTGGGGCTGTGAATGTCTGTGTGAGCAGCTCCCGGGCGGGGTGCTGTGCGGGGACCTCTGCGTGTGAG
 GCTCCCGGCCAGTACTGGCAGTGTCTGCAGCGCTCCGTGCAACGGGAACGTGGCGGTGAGCACCAGCCCT
 GTGTGCGCCCTGCGGCCAATTGAACACCACCTGCGGAGGGGGTTCTGCGGCGTGGGCTCCTGTGGTATC
 AGCTCCCTGGGTGTGGGGTCTTGCAGCAGCAGCTGCCGAAATGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC220726 representing NM_002281
 Red=Cloning site Green=Tags(s)

MTCGSGFGGRAFSKISACGPRPGRCCITAAPYRGISCYRGLTGGFGSHSVCGGFRAGSCGRSFGYRSGGV
 CGPSPPCITTVSVNESLLTPLNLEIDPNAQCVKQEEKEQIKSLNSRFAAFIDKVRFLQNNKLETKLQF
 YQNRECCQSNLEPLFEGYIETLRREAECVEADSGRLASELNHVQEVLEGYKKYEEVSLRATAENEFVA
 LKKDVEDCAYLRKSDLEANVEALIQEIDFLRRLYEEIIRILQSHISDTSVVVKLDNSRDLNMDCIIEIKA
 QYDDIVTRSRAEAEESWYRSKCEEMKATVIRHGETLRRTKEEINELNRMIRLTAEVENAKCQNSKLEAAV
 AQSEQQGEAALSDARCKLAELEGALQKAKQDMACLIIEYQEVMSKLGLDIEIATYRRLLEGEEQRLCEG
 IGAVNVCVSSSRGGVCGDLVSGSRPVTGSVCSAPCNGNVAVSTGLCAPCQLNTTCGGGSCGVGSCGI
 SSLGVGSCGSSCRKC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

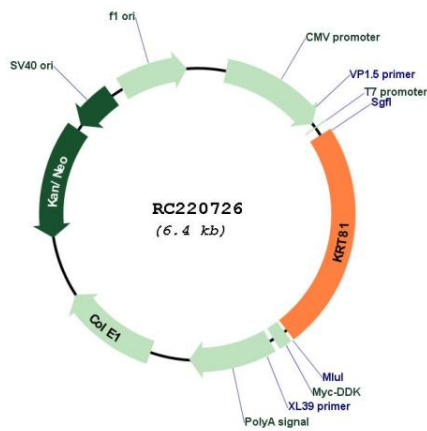
https://cdn.origene.com/chromatograms/mk8041_h04.zip

Restriction Sites:

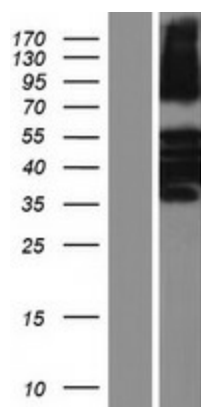
Sgfl-Mlul

| | |
|----------------------|---|
| Note: | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required. |
| RefSeq: | <u>NM_002281.2, NP_002272.1</u> |
| RefSeq Size: | 1925 bp |
| RefSeq ORF: | 1518 bp |
| Locus ID: | 3887 |
| UniProt ID: | <u>Q14533</u> |
| Cytogenetics: | 12q13.13 |
| MW: | 54.7 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 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] |

Product images:



Circular map for RC220726



Western blot validation of overexpression lysate (Cat# [LY419433]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220726 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).