

Product datasheet for RC237262

KRT85 (NM_001300810) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: KRT85 (NM_001300810) 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)
ORF Nucleotide Sequence: >RC237262 representing NM_001300810
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTATCAAGGTCCAGTTTCTCAGCTCCAGACCTTCTCTCCCACACCCAGGACGTGGACTGTGCCT
 ACCTGCGGAAATCAGACCTGGAGGCCAATGTGGAGGCCCTGGTGGAGGAGTCTAGCTTCTGAGGCGCT
 CTATGAAGAGGAGATCCGCGTTCTCCAAGCCACATCTCAGACACCTCGGTCATAGTCAAGATGGACAAC
 AGCCGAGACCTGAACATGGACTGCATCATCGCTGAGATCAAGGCTCAGTATGACGATGTTGCCAGCCGCA
 GCCGGGCCGAGGCTGAGTCTGGTACCGTACGAAGTGTGAGGAGATGAAGGCCACGGTATCAGGCATGG
 GGAGACCTGCGCCGCACCAAGGAGGAGATCAACGAGCTGAACCGCATGATCCAGAGGCTGACGGCCGAG
 ATTGAGAAATGCCAAGTGCCAGCGTGCCAAGCTGGAGGCTGCTGTGGCTGAGGCAGAGCAGAGGGTGGG
 CGGCCCTCAGCGATGCCCGCTGCAAGCTGGCTGAGCTGGAGGGCGCCCTGCAGAAGGCCAAGCAGGACAT
 GGCTGCTGCTCAAGGAGTACCAGGAGGTGATGAACTCCAAGCTGGGCTGGACATCGAGATCGCCACC
 TACAGGCGCTGCTGGAGGGCGAGGAACACAGGCTGTGTGAAGGTGTGGGCTCTGTGAATGTCTGTGCA
 GCAGCTCCCGTGGTGGAGTCTCCTGTGGGGCCCTCCTACAGCACCCAGGCGCCAGATCACTTC
 TGGCCCTCAGCCATAGGCGGCAGCATCACGGTGGTGGCCCTGACTCCTGTGCCCTGCCAGCCTCGT
 TCCTCCAGTTTCACTGCGGGAGTAGCCGGTCCGTCGGCTTTGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237262 representing NM_001300810
Red=Cloning site Green=Tags(s)

MVFKVQFLSSRPSLSHTQDVDCAYLRKSDLEANVEALVEESSFLRRLYEEEIRVLQAHISDTSVIVKMDN
 SRDLNMDCIIEIKAQYDDVASRSRAEAE SWYRSKCEEMKATVIRHGETLRRTKEEINELNRMIQRLTAE
 IENAKCQRAKLEAAVAEAEQQGEAALSDARCKLAELEGALQKAKQDMACLLKEYQEVMSKLGDLIEIAT
 YRRLLGEEHRLCEGVGSYVNCVSSSRGGVSCGGLSYSTTPGRQITSGPSAIGGSITVVAPDSCAPCQPR
 SSSFSCGSSRSVRFA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001300810

ORF Size: 885 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_001300810.1](#), [NP_001287739.1](#)

RefSeq Size: 1937 bp

RefSeq ORF: 888 bp

Locus ID: 3891

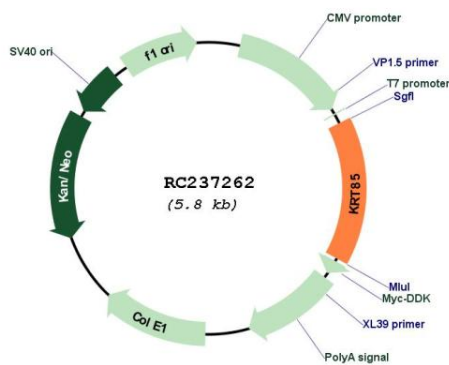
UniProt ID: [P78386](#)

Cytogenetics: 12q13.13

MW: 33 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 RC237262