

Product datasheet for **RG210176**

KRT86 (NM_002284) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KRT86 (NM_002284) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KRT86
Synonyms:	Hb1; HB6; hHb6; KRTHB1; KRTHB6; MNX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG210176 representing NM_002284
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACTTGTGGATCTTACTGTGGTGGCCGCGCCTTCAGCTGCATCTCGGCCTGCGGGCCCGGCCGGCC
 GCTGCTGCATCACCGCCGCCCTACCGTGGCATCTCTGCTACCGCGGCCTCACCGGGGCTTCGCGCAG
 CCACAGCGTGTGCGGAGGCTTTCGGGCCGGCTCCTGCGGACGAGCTTCGGCTACCGCTCCGGGGCGTG
 TCGGGGCCAGTCCCCATGCATCACACCCTGTGGTCAACGAGAGCCTCCTCACGCCCTCAACCTGG
 AGATCGACCCCAACGCGCAGTGCCTGAAGCAGGAGGAGAAGGAGCAGATCAAGTCCCTCAACAGCAGTT
 CGCGGCCCTTCATCGACAAGGTGCGCTTCTGGAGCAGCAGAACTGCTGGAGACAAAGTGCAGTTC
 TACCAGAACCGGAGTGTGCCAGAGCAACCTGGAGCCCTGTTGAGGGCTACATCGAGACTCTGCGGC
 GGGAGGCCGAGTGCCTGGAGGCCGACAGCGGGAGGCTGGCCTCAGAGCTTAACCAGTGCAGGAGTGT
 GGAGGGCTACAAGAAGAAGTATGAGGAGGAGTTTCTCTGAGAGCAACAGCTGAGAACGAGTTTGTGGCT
 CTGAAGAAGGATGTGGACTGCGCCTACCTCCGCAATCAGACCTGGAGGCCAATGTGGAGGCCCTGATCC
 AGGAGATCGACTTCTGAGGCGGCTGTATGAGGAGGAGATCCGCGTTCTCCAGTCCCACATCTCAGACAC
 CTCCGTGGTTGTCAAGCTGGACAACAGCCGGGACCTGAACATGGACTGCATCATTGCCGAGATCAAGGCA
 CAGTACGATGACATTGTACCCGTAGCCGGGCTGAGGCCGAGTCTGGTACCGCAGCAAGTGTGAGGAGA
 TGAAGGCCACGGTGTACAGGCACGGGGAGACCTGCGCCGACCAAGGAGGAGATCAACGAGCTGAACCG
 CATGATCCAGAGGCTGACGGCTGAGGTGGAGAA TGCCAAGTGCCAGAATTCCAAGCTGGAGGCTGCGGTG
 GCTCAGTCTGAGCAGCAGGCTGAGGCCGCCCTCAGCGATGCCCGCTGCAAGTTGGCCGAGCTGGAGGGT
 CCCTGCAGAAGGCCAAGCAGGACATGGCCTGCCTGATCAGGGAGTACCAGGAGGTGATGAACCTCAAGT
 GGGCCTGGACATCGAGATCGCCACCTACAGCGCCTGCTGGAGGGCGAGGAGCAGAGGCTGTGCGAGGGC
 GTCGGCTCGTGAATGTCTGCGTCAGCAGCTCCCGCGGTGGCGTTGTCTGTGGCATCTCTGCGCCTCCA
 CTACTGCCCTGTGTCTCCACCAGAGTCACTAGCGTCCCAGCAACAGCAACGTGGTGGTGGGCACTAC
 TAACGCTGCGCCCCCTCCGCCGGTTGGCGTCTGCGGGCCGAGCTGTAAGAGGTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG210176 representing NM_002284
 Red=Cloning site Green=Tags(s)

MTCGSYCGGRAFSCISACGPRPGRCCITAAPYRGI SCYRGLTGGFGSHSVCGGFRAGSCGRSFGYRSGGV
 CGPSPPCITTVSVNESLLTPLNLEIDPNAQCVKQEEKEQIKSLNSRFAAFIDKVRFLQNNKLETKLQF
 YQNRECCQSNLEPLFEGYIETLRREAECVEADSGRLASELNHVQEVLEGYKKKYEEVSLRATAENEFVA
 LKKDVDCAYLRKSDLEANVEALIQEIDFLRRLYEEEIRVLQSHISDTSVVVKLDNSRDLNMDCI IAEIKA
 QYDDIVTRSRAEAE SWYRSKCEEMKATVIRHGETLRRTKEEINELNRMIQRLTAEVENAKCQNSKLEAAV
 AQSEQQGEAALSDARCKLAELEGALQKAKQDMACLIREYQEVMSKLGLDIEIATYRRLLEGEEQRLCEG
 VGSVNVCVSSRGGVVCGLCASTTAPVVSTRVSSVPSNSNVVVGTTNACAPSARVGVCGGSKRC

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_002284

ORF Size: 1458 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_002284.3](#), [NP_002275.1](#)

RefSeq Size: 2091 bp

RefSeq ORF: 1461 bp

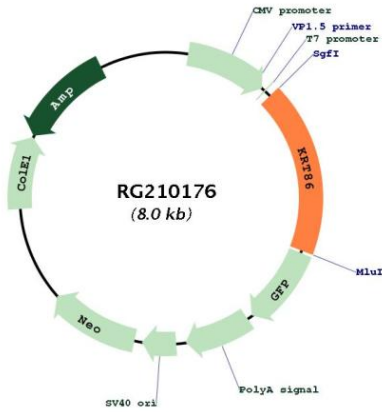
Locus ID: 3892

Cytogenetics: 12q13.13

Gene Summary:

This gene encodes a type II keratin protein, which heterodimerizes with type I keratins to form hair and nails. This gene is present in a cluster of related genes and pseudogenes on chromosome 12. Mutations in this gene have been observed in patients with the hair disease monilethrix. [provided by RefSeq, Feb 2016]

Product images:



Circular map for RG210176