

Product datasheet for **RG210207**

KRT84 (NM_033045) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KRT84 (NM_033045) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KRT84
Synonyms:	HB4; KRTHB4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG210207 representing NM_033045
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCTTGCCCTCTACCGAGTCAGCTCTGGTACCAGGGTGGGCAACTTCAGCTCTTGTTCAGCAATGA
 CACCACAGAACCTGAATCGCTTCCGGGCCAACTCTGTCTCTGTTGGAGTGGGCCTGGATTCGGGGCCT
 TGGCAGCTTTGGTAGTCGGAGTGTACACCTTTGGATCGTACTCACCCCGGATAGCAGCTGTAGGCTCT
 CGGCCATCCACTGTGGAGTCCGCTTTGGTGTGGCTGTGGGATGGGTTTTGGTATGGGAGAGGTGTTG
 GTCTGGGGCTAGGGCTGACAGCTGTGTTGGTCTGGGCTTTGGAGCTGGCAGTGGCATTGGCTATGGCTT
 TGGTGGCCCTGGCTTTGGTTACAGAGTTGGAGGGTTGGAGTCCCAGCAGCCCCATCTATCACAGCTGTG
 ACTGTGAACAAGAGCCTACTGACCCCCCTAACCTGGAGATTGACCCCAATGCCAGAGGGTGAAGAAGG
 ATGAGAAGGAGCAATCAAGACCCTCAACAACAAGTTGCCTCCTTCATTGACAAGGTTCCGTTCTCTAGA
 GCAGCAGAATAAGCTCCTAGAGACCAAGTGGAGCTTCTCCAAGAGCAGAAATGTATCAGGAGCAATCTG
 GAGCCACTCTTCGAGAGCTACATCACCAACCTGCGGAGGCAGTTGGAGGTGCTGGTCAGTATCAGGCC
 GGCTCCAGGCTGAGAGGAACCACCTGCAGGATGTCTAGAGGGCTTCAAGAAGAAGTATGAAGAGGAAGT
 GGTATGTGCGGCCAATGCTGAGAATGAGTTGTGGCTCTGAAGAAGGATGTGGATGCAGCTTTTATGAAC
 AAGTCTGATCTCGAGGCCAACGTGGATACCCTAACTCAGGAAATTGACTTTCTAAAAACGCTTTACATGG
 AGGAAATCCAGTTGCTGCAGTCGCACATCTCAGAGACGTGGTCAATTGTGAAGATGGACAACAGCCGTGA
 CCTGAACCTTGATGGGATCATTGCTGAGGTCAAGGCCAGTATGAGGAGGTGGCCAGGCGCAGCCGGGT
 GATGCTGAGGCCCTGGTACCAGACCAAGTATGAAGAGATGCAGGTGACAGCTGGCCAACACTGTGACAACC
 TCGCAACATACGGAACGAGATCAACGAACTGACCCGCTGATCCAGAGGCTTAAGGCAGAGATTGAGCA
 CGCCAAGGCTCAGCGTGCCTAAGTTGGAGGCTGCAGTGGCCGAGGCCGAGCAGCAGGGCGAGGCGACCCCTC
 AGTGATGCCAAATGCAAGCTGGCAGATCTGGAGTGTGCCCTGCAGCAGGCCAAGCAGGACATGGCGCGC
 AGCTGTGCGAGTACCAGGAGCTGATGAATGCCAAGCTGGGCTGGACATCGAGATCGCCACCTACAGGCG
 CCTGCTGGAGGGCGAGGAGAGCCGGCTCTGTGAAGGTGTTGGACCAGTAAACATATCCGTGAGCAGCTCC
 CGGGGCGGCTGGTGTGCGGGCTGAGCCTTTGGTTGCCGGCTCCACCCTCTCCCGCGCGGGGTACCT
 TCTCAGGTAGCAGCAGCTGTGCCACCAGTGGGCTCTGGCTTCTGTGGCCCCAGCCTGGGTGGAGC
 CCGGGTCGCCCCGCCACTGGGACCTGCTGAGCACTGGCACAAGGAGTGGCTCCATGCTCATCAGCGAG
 GCCTGTGTCCCCAGCGTCCCCTGCCCTGCCACCCAGGGGGGTTTCCAGAGCTGCAGCGCGGCCGCA
 GCTCCAGCGTCCGCTTTGTGTCCACCACCCTCTGCCGACCAAGTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG210207 representing NM_033045
 Red=Cloning site Green=Tags(s)

MSCRSYRVSSGHRVGNFSSCSAMTPQNLNRFNANSVSCWSGPGFRGLGSFGSRSVITFGSYSPRIA AVGS
 RPIHCGVRFGAGCGMGFDGRGVGLGPRADSCVGLGFGAGSGIGYFGGPGFGYRVGGVGVPAAPSITAV
 TVNKSLLTPLNLEIDPNAQRVKKDEKEQIKTLNKFASFIDKVRFLQKQNKLLKTKWFLQEQKIRSNL
 EPLFESYITNLRRLQLEVLVSDQARLQAERNHLQDVLEGFKKKYEVEVCRANAENEFVALKKDVA AFMN
 KSDLEANVDTLTQEIDFLKLYMEEIQLLQSHISETSVIVKMDNSRDLNLDGIIAEVKAQYEEVARRSRA
 DAEAWYQTKYEEMQVTAGQHCDNLRNIRNEINELTRLIQRLKAEIEHAKAQRALAAVAEAEQQGEATL
 SDAKCKLADLECALQQAQDMARQLCEYQELMNAKLGLDIEIATYRRLEGEESRLCEGVPVNI SVSSS
 RGGLVCGPEPLVAGSTLSRGGVTFSGSSVCATSGVLASCGPSLGGARVAPATGDLLSTGTRSGSMLISE
 ACVPSVPCPLPTQGGFSSCSGGRSSSVRFVSTTTSCRTRY

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_033045

ORF Size: 1800 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_033045.4](#)

RefSeq Size: 2073 bp

RefSeq ORF: 1803 bp

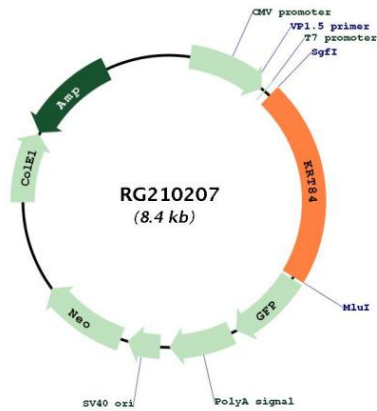
Locus ID: 3890

UniProt ID: [Q9NSB2](#)

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 is contained primarily in the filiform tongue papilla, among other hair keratins. [provided by RefSeq, Jul 2008]

Product images:


Circular map for RG210207