

Product datasheet for **RR214985**

Krt14 (NM_001008751) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Krt14 (NM_001008751) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Krt14
Synonyms:	Ka14; Krt1-14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR214985 representing NM_001008751
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCACCTGCAGCCGTCACTTACCTCCTCCAGCTCCATGAAGGGCTCCTGTGGCATCGGTGGTGGCT
 CTAGCCGCATGTCTCCGTCCTGGCTGGAGGATCCTGCCGGGCTCCAGCACCTACGGGGCATGTCTCG
 TTTCTCCTCTGCGGGAGCCTATGCGGTTGGAAGTGGCTATGGTGGGGGCTTCAGCAGCAGCAGTTTTGGT
 GGTGGATTTGGTGGAGGAATTGGTGGTGGTATTGGTGGAGGACTTGGTGGTGGTATTGGTGGTGGATTTG
 GTGGTGGTATTGGTGGTGGATTTGGTGGTGGTATTGGTAGTGGATTTGGTGGTGGTCTTGGCGATGGGCT
 CCTGGTTGGCAGTGAGAAAGTGACCATGCAGAACCTCAATGACCGCTTGGCCACCTACCTGGATAAGGTG
 CGTGCCCTGGAAGAGGCCAACAGTGACCTGGAGGTGAAGATCCGTGACTGGTACCAGAGGCAGCGCCCA
 CTGAGATCAAAGACTACAGCCCCTACTTCAAGACCATCGAGGACCTGAAGAGCAAGATCCTGGCAGCCAC
 TGTGGACAATGCCAATGTCTCCTGCAGATTGACAATGCCCGCTGGCGGCTGATGACTTCCGTACCAAG
 TTTGAGACAGAGCAGAGCCTGCGCATAAATGTGGAGTCTGACATCAATGGCTACGCCGGGTGCTGGATG
 AGCTGACCCTGGCCAGAGCTGACCTGGAGATGCAGATTGAGAGCCTCAAGGAAGAGCTGGCTACCTGAA
 GAAGAACCACGAGGAGGAAATGGCTTCCATGAGAGGCCAGGTGGGCGGGGACGTCACCGTGGAGATGGAT
 GCGGCCCTGGTGTGGACCTGAGCCGCATCCTGAACGAGATGCGGGATCAGTATGAGAAGATGGCAGAGA
 AGAACCGAAGGATGCCGAAGATTGGTTCTTACCAAGACAGAGGAGCTGAACCGCAGGTGGCCACCA
 CAGCGAAGTGGTGCAGAGCGGCAAGAGCGAGATCTCCGAGCTCCGGCGCACGATGCAGAACCTGGAGATC
 GAGCTGCAGTCCCAGCTCAGCATGAAAGCATCCCTGGAGAATAACCTGGAGGAGACCAAAGGCCGTTACT
 GCATGCAGCTGGCCAGATCCAGGAGATGATCGGCAGCTGGAGGAGCAGCTGGCTCAGCTGCGCTCGCA
 GATGGAGCAGCAGAATCAGGAGTACAAGATCCTGCTGGATGTGAAGACTCGGCTGGAGCAGGAGATCGCC
 ACCTACCGCCGTCTGCTGGAGGGCGAGGATGCTCACCTTTCATCTGCCAATTCTCCTCATCGTCTCAAT
 TCTCCTCTGGCTCTAATCATCCAGAGATGTGACCTCCACCAACCGCCAGATCCGCACCAAGGTCATGGA
 TGTGCACGATGGCAAGGTGGTCTCCACCCACGAGCAGGTCTGCCACCAAGAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR214985 representing NM_001008751
 Red=Cloning site Green=Tags(s)

MATCSRQFTSSSSMKGSCGIGGGSSRMSSVLAGGSCRAPSTYGGMSRFSSAGAYAVGSGYGGGFSSSSFG
 GGFGGGIGGGIGGGLGGGIGGGFGGGIGGGFGGGIGSGFGGGLGDGLLVGSEKVTMQNLNDRLATYLDKV
 RALEEANSDELVKIRDWYQRQRPTEIKDYSPYFKTIEDLKSKILAATVDNANVLLQIDNARLAADDFRTK
 FETEQLSRINVEDINGLRRVLDLTLARADLEMQIESLKEELAYLKNHEEEMASMRGQVGGDVNVEMD
 AAPGVDLSRILNEMRDQYEKMAEKNRKAEDWFFTKTEELNREVATNSELVQSGKSEISELRRMQNLEI
 ELQSQLSMKASLENNLEETKGRYCMQLAQIQEMIGSVEEQLAQLRCMEQQNQEYKILLDVKTRLEQIEIA
 TYRRLLGEDAHLSSAQFSSSSQFSSGSQSSRDVTSTNRQIRTKVMDVHDGKVVSTHEQVLRRTKN

TRTRPLEQ**KL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_001008751

ORF Size: 1455 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_001008751.1](#), [NP_001008751.1](#)
RefSeq Size: 1458 bp

RefSeq ORF: 1458 bp

Locus ID: 287701

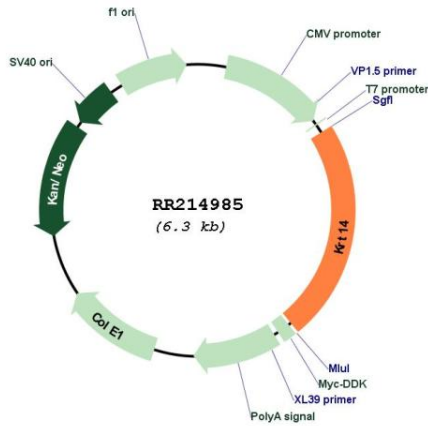
UniProt ID: [Q6IFV1](#)

Cytogenetics: 10q31

MW: 52.7 kDa

Gene Summary: The nonhelical tail domain is involved in promoting KRT5-KRT14 filaments to self-organize into large bundles and enhances the mechanical properties involved in resilience of keratin intermediate filaments in vitro.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR214985