

Product datasheet for **RC224877**

KRT75 (NM_004693) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	KRT75
Synonyms:	CK-75; hK6hf; K6HF; K75; KB18; PFB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >RC224877 representing NM_004693
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGTCTCGGCAGTCTCCATCACCTTCCAGTCTGGCAGCCGAGGGGCTTCAGCACCACCTCGGCCATCA
 CCCCAGCAGCTGGCCGCTCCCGCTTCAGCTCTGTCTGTGGCCCGCTCTGCAGCAGGGAGTGGGGCCCT
 GGGAAGGATCAGCAGTGTGGGGCCAGCTTTGGAAGCCGACGCTCTACAACCTGGGGGGTGCCAAGCGG
 GTCTCCATCAATGGGTGTGGCAGCAGCTGCCGAAGTGGCTTTGGTGGCAGGGCCAGCAACAGGTTTGGAG
 TCAACAGTGGATTTGGCTATGGGGTGGAGTTGGAGGAGGCTTCAGTGGCCCCAGCTTCCCGTGTGTCC
 CCTGGAGGCATCAAGAGGTCACTGTCAACCAGAGTCTCCTGACTCCTTTACCTGCAAAATCGACCCC
 ACCATCCAGCGGGTGGGGCCGAGGAGCGCAGCAGATCAAGACCCTCAACAATAAGTTCGCTCCTTCA
 TCGACAAGGTGAGTTCTTGGAGCAGCAGAACAAGGTCTGGAGACCAAGTGGGCCCTCTCGAGGAGCA
 GGGCTCCAGGACTGTGAGGCAGAACCTAGAGCCCCTTTGATTCTATACCAGTGAGCTCCGACGGCAG
 CTGGAAGCATCACCAAGAGAGGGGCGAGGCTTGAAGCTGAACTGAGGAACATGCAGGATGTTGTGGAAG
 ATTTCAAAGTCAGGTACGAAGATGAAATTAACAAGCGCACAGCTGCTGAGAATGAATTTGTAGCCCTGAA
 AAAGGACGTAGATGCTGCCTATATGAACAAGGTGGAGCTGGAAGCCAAGGTCAAATCTCTGCCCGAGGAG
 ATCAACTTCATCCACTCAGTCTTTGATGCAGAGCTGTCCAGTTGCAGACCCAGGTCCGTGACACATCCG
 TGGTGTCTGTCATGGACAACAACCGCAACCTGGACCTGGATAGTATCATCGCCGAGGTCAAAGCACAATA
 CGAGGACATTGCCAACCGCAGCCGGGCCGAGGCTGAGTCTGGTACCAGACCAAGTACGAGGAGCTGCAG
 GTCACCGCAGGCAGACATGGGGATGACCTTCGAAACACCAACAAGAGATCTCTGAAATGAACCGCATGA
 TCCAGAGGCTGAGAGCTGAGATTGACAGCGTCAAGAAGCAGTGTTCAGCTTGCAAACGGCCATTGCTGA
 TGCAGAGCAGCGGGGAGAACTGGCTCTCAAGGATGCACGGGCCAAGCTGGTGGACCTTGAGGAGGCCCTG
 CAGAAGGCCAAGCAGGACATGGCTCGGCTCCTGCGTGAAGTACCAGGAGCTGATGAACATCAAGCTGGCCC
 TGGACGTGGAGATCGCCACCTACCGCAAGCTGCTGGAAGGCGAGGAGTGCAGGTTGAGTGGAGAGGGAGT
 TTCTCCAGTTAACAATTTCTGTGGTCACTCTACTCTTTCCAGTGGCTATGGAAGCGGCAGCAGCATTGGA
 GGTGGAAACCTGGGCTCGGTGGGGGCGAGGCTACTCCTTCAACCAAGTGGTGGGCATAGCCTGGGTG
 CAGGCTGGGAGGTTCTGGATTCAAGTGCACCAAGCAACCGGGGCTTAGGGGGCAGTGGTTCTAGCGTCAA
 GTTTGTCTCCACCACATCTCCAGCCAGAAGAGCTACACGCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC224877 representing NM_004693
 Red=Cloning site Green=Tags(s)

MSRQSSITFQSGSRRGFSTTSAITPAAGRSRFSVSVARSAAGSGGLGRISAGASFGRSLYNLGGAKR
 VSINGCGSSCRSGFGGRASNRFGVNSGFGYGGVGGFSGPSFPVCPGGIQEVTVNQSLTPLHLQIDP
 TIQVRAREEREQIKTLNNKFASFIDKVRFLQKQNKVLETKWALLQEQSRTVRQNLPLFDSYTSSELRRQ
 LESITTERGRLEAELRNMQDVVEDFKVRYEDEINKRTAAENEFVALKKDVAAYMNKVELEAKVKSLPEE
 INFIVSVFDAELSQLQTQVGDTSVVLSDNNRNLDLDSIIAEVKAQYEDIANRSRAEAESWYQTKYEELQ
 VTAGRHGGDLRNTKQEI SEMNRMIQRLRAEIDSVKKQCSSLQTAIADAEQRGELALKDARAKLVLEEAL
 QKAKQDMARLLREYQELMNIKALDVEIATYRKLLGEEECRLSGEGVSPVNI SVVTSTLSSGYSGSSIG
 GGNLGLGGSGYSFTTSGHSLGAGLGGSGFSATSNRGLGGSGSVKFSVSTSSSQSYTH

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8044_e05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004693

ORF Size: 1653 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.

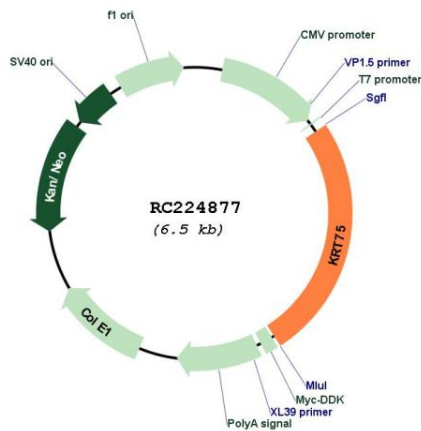
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_004693.3](#)

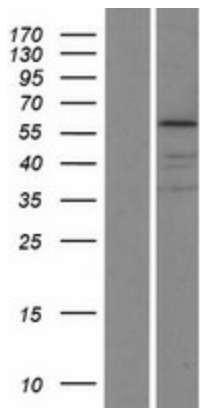
RefSeq Size:	2121 bp
RefSeq ORF:	1656 bp
Locus ID:	9119
UniProt ID:	O95678
Cytogenetics:	12q13.13
MW:	59.4 kDa

Gene Summary: This gene is a member of the type II keratin family clustered on the long arm of chromosome 12. Type I and type II keratins heteropolymerize to form intermediate-sized filaments in the cytoplasm of epithelial cells. This gene is expressed in the companion layer, upper germinative matrix region of the hair follicle, and medulla of the hair shaft. The encoded protein plays an essential role in hair and nail formation. Variations in this gene have been associated with the hair disorders pseudofolliculitis barbae (PFB) and loose anagen hair syndrome (LAHS). [provided by RefSeq, Oct 2008]

Product images:



Circular map for RC224877



Western blot validation of overexpression lysate (Cat# [LY417821]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224877 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).