

Product datasheet for **SC303521**

KRT75 (NM_004693) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KRT75 (NM_004693) Human Untagged Clone
Tag:	Tag Free
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)



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Fully Sequenced ORF: >SC303521 representing NM_004693.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGTCTCGGCAGTCTCCATCACCTTCCAGTCTGGCAGCCGAGGGGCTTCAGCACACCTCGGCCATC
ACCCCGCAGCTGGCCGCTCCCGCTTCCAGCTCTGTCTCTGTGGCCGCTCTGCAGCAGGGAGTGGGGGC
CTGGGAAGGATCAGCAGTCTGGGGCCAGCTTTGGAAGCCGAGCCTCTACAACCTGGGGGTGCCAAG
CGGGTCTCCATCAATGGGTGTGGCAGCAGCTGCCGAAGTGGCTTTGGTGGCAGGGCCAGCAACAGTTT
GGAGTCAACAGTGGATTTGGCTATGGGGGTGGAGTTGGAGGAGGCTTTCAGTGGCCCCAGCTTCCCGTG
TGTCCCCCTGGAGGCATCCAAGAGGTCAGTGTCAACCAGAGTCTCCTGACTCCTTTCACCTGCAAATC
GACCCACCATCCAGCGGTGCGGGCCGAGGAGCGCAGCAGATCAAGACCCTCAACAATAAGTTCGCC
TCCTTCATCGACAAGGTGAGTTCTTGGAGCAGCAGAACAAGTCTGGAGACCAAGTGGGCCCTCTG
CAGGAGCAGGGCTCCAGGACTGTGAGGCAGAACCTAGAGCCCTCTTTGATTCTATACCAGTGAGCTC
CGACGGCAGCTGGAAGCATCACCAACGAGAGGGGAGGCTTGAAGCTGAACTGAGGAACATGCAGGAT
GTTGTGGAAGATTTCAAAGTCAGGTACGAAGATGAAATTAACAAGCGCACAGCTGCTGAGAATGAATTT
GTAGCCCTGAAAAAGGACGTAGATGCTGCCTATATGAACAAGGTGGAGCTGGAAGCCAAGTCAAATCT
CTGCCCGAGGAGATCAACTTCATCCACTCAGTCTTTGATGCAGAGCTGTCCAGTTGCAGACCCAGGTC
GGTGACACATCCGTGGTGTCCATGGACAACAACCGCAACCTGGACCTGGATAGTATCATCGCCGAG
GTCAAAGCACAATACGAGGACATTGCCAACCGCAGCCGGGCCGAGGCTGAGTCTGGTACCAGACCAAG
TACGAGGAGCTGCAGGTACCCGAGGCAGACATGGGGTAGCCTTCGAAACACCAACAAGAGATCTCT
GAAATGAACCGCATGATCCAGAGGCTGAGAGCTGAGATTGACAGCGTCAAGAAGCAGTGTCCAGCTTG
CAAACGGCCATTGCTGATGCAGAGCAGCGGGGAGAACTGGCTCTCAAGGATGCACGGGCCAAGCTGGTG
GACCTTGAGGAGGCCCTGCAGAAGGCCAAGCAGGACATGGCTCGGCTCCTGCGTGAGTACCAGGAGCTG
ATGAACATCAAGCTGGCCCTGGACGTGGAGATCGCCACCTACCGCAAGCTGCTGGAAGGCCAGGAGTGC
AGGTTGAGTGGAGAGGGAGTTTCTCCAGTTAACATTTCTGTGGTACCTCTACTCTTTCCAGTGGCTAT
GGAAGCGGCAGCAGCATTGGAGGTGAAACCTGGGCCCTCGGTGGGGCCAGCGGCTACTCCTTACCACC
AGTGGTGGGCATAGCCTGGGTGCAGGCCTGGGAGTTCTGGATTGAGTCCACCAGCAACCGGGGCTTA
GGGGGCAGTGGTTCTAGCGTCAAGTTTGTCTCCACCACATCTCCAGCCAGAAGAGCTACACGCCTAA

ACCGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGCGC
  
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- Restriction Sites:** SgfI-MluI
- ACCN:** NM_004693
- Insert Size:** 1656 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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_004693.2](#)

RefSeq Size: 2125 bp

RefSeq ORF: 1656 bp

Locus ID: 9119

UniProt ID: [O95678](#)

Cytogenetics: 12q13.13

MW: 59.6 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]