

## Product datasheet for **MC216264**

### **Krt16 (NM\_008470) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Krt16 (NM_008470) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Krt16
Synonyms:	AI324768; CK-16; K16; Krt1-1; Krt1-16
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >MC216264 representing NM\_008470  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCACCTGCAGCCGCACTTACCTCCTCCAGCTCCATGAAGGGCTCCTGTGGCATCGGTGGTGGCT  
 CTAGCCGCATGTCTCCATCCTGGCTGGAGGATCCTGCCGGGCTCCAGCACCTGCGGGGCATGTCACT  
 TACCTCCTCTCGTTCTCCTCTGGGGAGTCTGTGGGATTGGAGGTGGCTATGGTGGGAGCTTCAGCAGC  
 AGCAGTTTTGGTGGAGGACTTGGTAGTGGATTTGGTGGTGGCTATGGTGGGAGCTTCAGCAGC  
 CTGGTCTTGGTGGTGGTCTTGGCGGTGGTATTGGTGGTGGCTCCTGGTGGCAGTGAGAAAGTACCAT  
 GCAGAACCTCAATGACCGCTGGCCACCTACCTGGACAAGGTGCGTGCCCTGGAAGAGGCCAACAGAGAC  
 CTGGAGGTGAAGATCCGGGACTGGTACCAGAGGCAGCGGCCACTGAGATCAAAGACTACAGCCCCTACT  
 TCAAGACCATTGAGGACCTGAAGAGCAAGATCATTATTGCCACCCAGGAGAATGCACAGTCACTTTGCA  
 GATTGACAATGCCAGGCTGGCAGCTGATGACTTCAGGACCAAGTACGAGAATGAGCTGTTCTTGCAGCAG  
 TCCGTGGAGGGTGACATCAATGGCTGCGCAAGGTGCTAGATGAGCTGACCTGTCCAGAGCTGACCTGG  
 AAATGCAGATTGAAAACCTCAGAGAAGAGCTGGCCTTCTGAAGAAGAACCATGAGGAGGAGATGCTTGC  
 CTTGAGGGGTGAGACTGGTGGGACGTCAATGTGGAGATGGACGCAGCCCCGGTGTGGACCTCAGCCGC  
 ATTCTGAATGAGATGAGGGACCAGTATGAGCAGATGGCAGAGAAGAACCAGAGATGTGGAGGCCTGGT  
 TCCTGAGAAAGACTGAGGAGCTGAACAAAGAGGTGGCCTCTAACAGTGATCTAATCCAGAGCAACCCGAG  
 CGAGGTGGCTGAGCTCCGAGGGTGTCCAGGGCCTGGAGATTGAACTGCAGTCCCAGCTCAGCATGAAA  
 GCATCCTTGGAGAACAGCCTAGAAGAGACCAAAGGCAGATACTGTATGCAGCTGTCCAGATCCAGGGTT  
 TGATCAGCAGTGTGGAGGACAGCTGGCTCAGCTTCGCTGCGAGATGGAGCAGCAGAGCCAGGAGTACAA  
 CATCTTTGGATGTGAAGACAAGGCTGGAGCAGGAGATCGCCACCTACCGCCGTCTGCTGGATGGCGAG  
 AATATCCACTCCTCCTCAGCAGCTCCTCTGGACAGTCTATTCTTCTCGAGAAGTCTTCTCCTCATCCT  
 CCCGCCAGCCCCGGTCCATCCTCAAGGAGCAAGGTTCAACCAGCTTCAGCCAGAGCCAAAGTCAGAGTTC  
 CAGGGAC**TAA**

**ACGGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_008470
- Insert Size:** 1410 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).
- 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\\_008470.1](#), [NP\\_032496.1](#)

RefSeq Size: 1580 bp

RefSeq ORF: 1410 bp

Locus ID: 16666

UniProt ID: [Q9Z2K1](#)

Cytogenetics: 11 D

**Gene Summary:** The protein encoded by this gene is a member of the keratin gene family. The keratins are intermediate filament proteins responsible for the structural integrity of epithelial cells and are subdivided into cytokeratins and hair keratins. The encoded protein is a cytokeratin and acts as an innate immune system effector, promoting the inflammatory response upon breach of the skin barrier. Defects in this gene are a cause of pachyonychia congenita. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2015]

Transcript Variant: This variant (2) uses an alternate in-frame splice junction compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is 1 aa shorter compared to isoform 1.