

## Product datasheet for **MR220206**

### **Krt16 (NM\_008470) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Krt16 (NM_008470) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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)



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**ORF Nucleotide Sequence:**

>MR220206 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCCACCTGCAGCCGCACTTACCTCCTCCAGCTCCATGAAGGGCTCCTGTGGCATCGGTGGTGGCT  
 CTAGCCGCATGTCTCCATCCTGGCTGGAGGATCCTGCCGGCTCCAGCACCTGCGGGGCATGTCACT  
 TACCTCCTCTCGTTCTCCTCTGGGGAGTCTGTGGGATTGGAGGTGGCTATGGTGGGAGCTTCAGCAGC  
 AGCAGTTTTGGTGGAGGACTTGGTAGTGGATTTGGTGGTGGCTATGGTGGGAGCTTCAGCAGC  
 CTGGTCTTGGTGGTGGTCTTGGCGGTGGTATTGGTGGTGGCTCCTGGTGGGAGTGGAGAAAGTACCAT  
 GCAGAACCTCAATGACCGCTGGCCACCTACCTGGACAAGGTGCGTGCCTGGAAGAGGCCAACAGAGAC  
 CTGGAGGTGAAGATCCGGGACTGGTACCAGAGGACGCGCCACTGAGATCAAAGACTACAGCCCCTACT  
 TCAAGACCATTGAGGACCTGAAGAGCAAGATCATTATTGCCACCCAGGAGAATGCACAGTTCACCTTGA  
 GATTGACAATGCCAGGCTGGCAGCTGATGACTTCAGGACCAAGTACGAGAATGAGCTGTTCTTGGCGCAG  
 TCCGTGGAGGGTACATCAATGGCTGCGCAAGGTGCTAGATGAGCTGACCTGTCCAGAGCTGACCTGG  
 AAATGCAGATTGAAAACCTCAGAGAAGAGCTGGCCTTCTGAAGAAGAACCATGAGGAGGAGATGCTTGC  
 CTTGAGGGGTGAGCTGGTGGGACGCTCAATGTGGAGATGGACGAGCCCCCGGTGTGGACCTCAGCCGC  
 ATTCTGAATGAGATGAGGAGCAGTATGAGCAGATGGCAGAGAAGAACCAGAGATGTGGAGGCCTGGT  
 TCCTGAGAAAGACTGAGGAGCTGAACAAAGAGGTGGCCTTAACAGTGATCTAATCCAGAGCAACCCGAG  
 CGAGGTGGCTGAGCTCCGAGGGTGTCCAGGGCTGGAGATTGAACTGCAGTCCCAGCTCAGCATGAAA  
 GCATCCTTGGAGAACAGCCTAGAAGAGACCAAAGGCAGATACTGTATGCAGCTGTCCAGATCCAGGGTT  
 TGATCAGCAGTGTGGAGGACAGCTGGCTCAGCTTCGCTGCGAGATGGAGCAGCAGAGCCAGGAGTACAA  
 CATCTTGTGGATGTGAAGACAAGGCTGGAGCAGGAGATCGCCACCTACCGCCGTCTGCTGGATGGCGAG  
 AATATCCACAGCTCCTCCTCACAGCACTCCTCTGGACAGTCTATTCTTCTCGAGAAGTCTTCTCCTCAT  
 CCTCCCGCCAGCCCGGTCCATCCTCAAGGAGCAAGGTTCAACCAGCTTCAGCCAGAGCCAAAGTCAGAG  
 TTCAGGGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR220206 protein sequence  
 Red=Cloning site Green=Tags(s)

MATCSRQFTSSSSMKGSCGIGGSSRMSSILAGGSCRAPSTCGGMSVTSSRFSSGGVCGIGGGYGGFSS  
 SSFGGGLGSGFGRFDGFGGGFAGLGGGLGGIGDGLLVGSEKVTMQLNDRLATYLDKVRALAEANRD  
 LEVKIRDWYQRQRPTEIKDYSPYFKTIEDLKSII IATQENAQFTLQIDNARLAADDFRTKYENELFLRQ  
 SVEGDINGLRKVLDELTLRADLEMQIENLREELAFLLKNHEEMLALRGQTGGDVNEMDAAPGVDLSR  
 ILNEMRDQYEQMAEKNRDVEAWFLRKTEELNKEVASNSDLIQSNRSEVAELRRVFQGLEIELQSLSMK  
 ASLENSLEETKGRYCMQLSQQGLISSVEEQLAQLRCEMEQQSQEYNILLDVKTRLEQEIATYRRLLDGE  
 NIHSSSSQHSSGQSYSSREVFSSSRQPRILKEQGSTFSQSQSQSSRD

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_008470

**ORF Size:** 1413 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\\_008470.1](#), [NP\\_032496.1](#)

**RefSeq Size:** 1580 bp

**RefSeq ORF:** 1410 bp

**Locus ID:** 16666

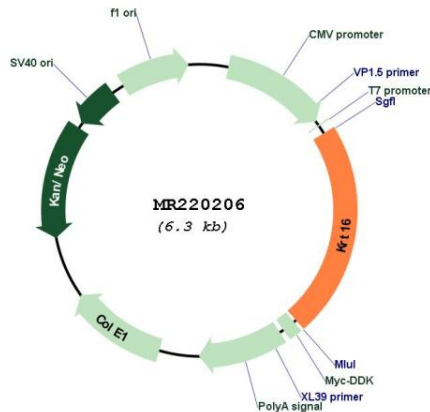
**UniProt ID:** [Q9Z2K1](#)

**Cytogenetics:** 11 D

**MW:** 51.7 kDa

**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]

**Product images:**



Circular map for MR220206