

## Product datasheet for **MG220206**

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

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Krt16 (NM_008470) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Krt16
Synonyms:	AI324768; CK-16; K16; Krt1-1; Krt1-16
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG220206 representing NM\_008470  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCACCTGCAGCCGCACTTACCTCCTCCAGCTCCATGAAGGGCTCCTGTGGCATCGGTGGTGGCT  
 CTAGCCGCATGTCTCCATCCTGGCTGGAGGATCCTGCCGGGCTCCAGCACCTGCGGGGCATGTCACT  
 TACCTCCTCTCGTTCTCCTCTGGGGAGTCTGTGGGATTGGAGGTGGCTATGGTGGGAGCTTCAGCAGC  
 AGCAGTTTTGGTGGAGGACTTGGTAGTGGATTTGGTGGTGGTATTTGATGGATTTGGTGGTGGTTTTGGT  
 CTGGTCTTGGTGGTGGTCTTGGCGGTGGTATTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT  
 GCAGAACCTCAATGACCGCTGGCCACCTACCTGGACAAGGTGCGTGCCTGGAAGAGGCCAACAGAGAC  
 CTGGAGGTGAAGATCCGGGACTGGTACCAGAGGCAGCGGCCACTGAGATCAAAGACTACAGCCCTACT  
 TCAAGACCATTGAGGACCTGAAGAGCAAGATCATTATTGCCACCCAGGAGAATGCACAGTCACTTTGCA  
 GATTGACAATGCCAGGCTGGCAGCTGATGACTTCAGGACCAAGTACGAGAATGAGCTGTTCTTGGCGCAG  
 TCCGTGGAGGGTACATCAATGGCTGCCAAGGTGCTAGATGAGCTGACCTGTCCAGAGCTGACCTGG  
 AAATGCAGATTGAAAACCTCAGAGAAGAGCTGGCCTTCTGAAGAAGAACCATGAGGAGGAGATGCTTGC  
 CTTGAGGGGTGAGCTGGTGGGACGTCAATGTGGAGATGGACGCAGCCCCGGTGTGGACCTCAGCCGC  
 ATTCTGAATGAGATGAGGGACAGTATGAGCAGATGGCAGAGAAGAACCAGAGATGTGGAGGCCTGGT  
 TCCTGAGAAAGACTGAGGAGCTGAACAAAGAGGTGGCCTTAACAGTGATCTAATCCAGAGCAACCCGAG  
 CGAGGTGGCTGAGCTCCGAGGGTGTCCAGGGCTGGAGATTGAACTGCAGTCCCAGCTCAGCATGAAA  
 GCATCCTTGGAGAACAGCCTAGAAGAGACCAAAGGCAGATACTGTATGCAGCTGCCAGATCCAGGGTT  
 TGATCAGCAGTGTGGAGGACAGCTGGCTCAGCTTCGCTGCGAGATGGAGCAGCAGAGCCAGGAGTACAA  
 CATCTTGTGGATGTGAAGACAAGGCTGGAGCAGGAGATCGCCACCTACCGCCGTCTGCTGGATGGCGAG  
 AATATCCACAGCTCCTCCTCACAGCACTCCTCTGGACAGTCTATTCTTCTCGAGAAGTCTTCTCCTCAT  
 CCTCCCGCCAGCCCGGTCCATCCTCAAGGAGCAAGGTTCAACCAGCTTCAGCCAGAGCCAAAGTCAGAG  
 TTCAGGGAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG220206 representing NM\_008470  
 Red=Cloning site Green=Tags(s)

MATCSRQFTSSSSMKGSCGIGGGSSRMSSILAGGSCRAPSTCGGMSVTSSRFSSGGVCGIGGGYGGSFSS  
 SSFGGGLGSGFGRFDGFGGGFAGLGGGLGGIGDGLLVGSEKVTMQLNDRLATYLDKVRALAEANRD  
 LEVKIRDWYQRPRTEIKDYSYFKEIEDLKSIIIIATQENAQFTLQIDNARLAADDFRTKYENELFLRQ  
 SVEGDINGLRKVLDELTLRADLEMQIENLREELAFLLKKNHEEMLALRGQTGGDVNVEMDAAPGVDLR  
 ILNEMRDQYEQMAEKNRRDVEAWFLRKTEELNKEVASNSDLIQSNRSEVAELRRVFQGLEIELQSLSMK  
 ASLENSLEETKGRYCMQLSQIQGLISSVEEQLAQLRCEMEQQSQEYNILLDVKTRLEQEIATYRRLLDGE  
 NIHSSSSQHSSGQSYSSREVFSSSRQPRRSILKEQGSTSFSSQSSQSSRD

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI



**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]