

## Product datasheet for **MG207754**

### **Krt14 (NM\_016958) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Krt14 (NM_016958) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Krt14
Synonyms:	AI626930; CK-14; K14; Krt-1.1; Krt-1.14; Krt1-1; Krt1-14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG207754 representing NM\_016958  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCCACCTGCAGCCGCACTTACCTCCTCCAGCTCCATGAAGGGCTCTTGTGGTATCGGTGGTGGCT  
 CTAGCCGCATGTCTCCATCCTGGCTGGAGGATCCTGCCGGGCTCCAGCACCTACGGGGCATGTCCGT  
 TACCTCCTCTCGTTCTCCTCTGGGGGAGCCTGTGGGATTGGAGGTGGCTATGGTGGGAGCTTCAGCAGC  
 AGCAGTTTTGGTGGAGGACTTGGTAGTGGATTTGGTGGTGGATTTGATGGATTTGGTGGTGGTTTTGGT  
 GTGGTCTTGGTGGTGGTTTTGGTGGTGGTCTTGGTGGTGGTCTTGGCGGTGGTATTGGTGGTGGCTCCT  
 GGTGGGCAGTGAGAAAGTACCATGCAGAACCTCAATGACCGCTGCCACCTACCTGGACAAGGTGCGT  
 GCCCTGGAAGAGGCCAACACTGAACTGGAGGTGAAGATTCGGGACTGGTACCAGAGGCAGCGGCCACTG  
 AGATCAAAGACTACAGCCCTACTTCAAGACCATCGAGGACCTGAAGAGCAAGATCCTGGCAGCCACCGT  
 GGACAATGCCAATGTCTCCTGCAGATCGACAATGCCCGCTGGTGGCGATGACTTCCGGACCAAGTTT  
 GAGACGGAGCAGAGCCTGCGCATGAGCGTGGAGGCCGACATCAATGGCCTGCGCAGGGTGCCTGGATGAGC  
 TGACCCTGGCCAGAGCCGACCTGGAGATGCAGATTGAGAGCCTCAAGGAGGAGCTGGCCTACCTGAAGAA  
 GAACCACGAGGAGGAAATGGCCTCCATGAGAGGCCAGGTGGTGGAGACGTCAATGTGGAGATGGACGCC  
 GCCCTGGTGTGGACCTGAGCCGCATCCTGAACGAGATGCGGGATCAGTACGAGAAGATGGCGGAGAAGA  
 ACCGCAAGGATGCTGAGGAATGGTTCTTTCAGCAAGACAGAGGAGCTGAACCGCGAGGTGGCCACCAACAG  
 CGAGCTGGTGCAGAGCGGCAAGAGTGAATTTCTGAGCTCCGGCGCACCATGCAGAACCTGGAGATCGAG  
 CTGCAGTCCCAGCTCAGCATGAAAGCATCCCTGGAGAATAACCTGGAGGAGACCAAGGCCGTTACTGCA  
 TGCAGCTGGCCAGATCCAGGAGATGATCGGCAGTGTGGAGGAGCAGCTGGCTCAGCTGCGCTGCGGAT  
 GGAGCAGCAGAACCAGGAGTACAAAATCCTGCTGGATGTGAAGACAAGGCTGGAGCAGGAGATCGCCACC  
 TACCGCGTCTGCTGGAGGGAGAGGACGCCACCTTTTCATCTTCCCAATTCTCCTCATCCTCAATTCT  
 CCTCTGGCTCTCAGTATCCAGAGATGTGACCTCCACCAACCGCCAGATCCGCACCAAGGTGATGGATGT  
 GCACGATGGCAAGGTGGTCTCCACCCACGAGCAGGTCTGCGCACCAAGAAC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG207754 representing NM\_016958  
 Red=Cloning site Green=Tags(s)

MATCSRQFTSSSSMKGSCGIGGGSSRMSSILAGGSCRAPSTYGGMSVTSSRFSSGGACGIGGGYGGFSFSS  
 SSFGGGLGSGFGGRFDGFGGGFGGGLGGFGGGLGGGLGGGIGDGLLVGSEKVTMQNLNDRLATYLDKVR  
 ALEEANTELEVKIRDWYQRQRPTEIKDYSPYFKTIEDLKSKILAATVDNANVLLQIDNARLAADDFRTKF  
 ETEQSLRMSVEADINGLRRVLDLTLARADLEMQIESLKEELAYLKNHEEEMASMRGQVGGDVNEMDA  
 APGVDLSRILNEMRDQYEKMAEKNRKDAEEWFFSKTEELNREVATNSELVQSGKSEISELRRTMQNLEIE  
 LQSQLSMKASLENNLEETKGRYCMQLAQIQEMIGSVEEQLAQLRCEMEQQNQYKILLDVKTRLEQEIAT  
 YRRLLEGEDAHLSSSQFSSSSQFSSGSQSSRDVTSTNRQIRTKVMDVHDGKVVSTHEQVLRITKN

**TRTRPLE** – GFP Tag – V

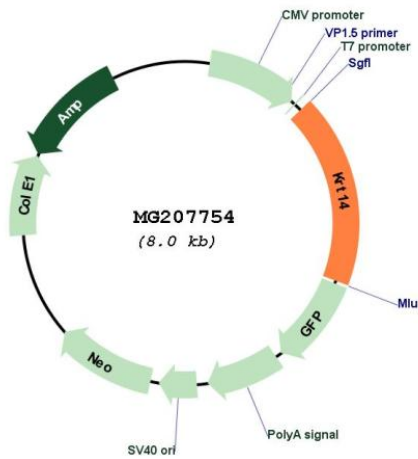
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_016958

ORF Size: 1452 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\\_016958.2](#)

**RefSeq Size:** 1680 bp

**RefSeq ORF:** 1455 bp

**Locus ID:** 16664

**UniProt ID:** [Q61781](#)

**Cytogenetics:** 11 D

**Gene Summary:** This gene encodes a member of the keratin family, the most diverse group of intermediate filaments. This gene product, a type I keratin, is usually found as a heterotetramer with two keratin 5 molecules, a type II keratin. Together they form the cytoskeleton of epithelial cells. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2015]