

## Product datasheet for **MR226471**

### **Krt71 (NM\_019956) Mouse Tagged ORF Clone**

#### **Product data:**

|                           |                                                  |
|---------------------------|--------------------------------------------------|
| Product Type:             | Expression Plasmids                              |
| Product Name:             | Krt71 (NM_019956) Mouse Tagged ORF Clone         |
| Tag:                      | Myc-DDK                                          |
| Symbol:                   | Krt71                                            |
| Synonyms:                 | AA589543; Ca; Cal4; Cu; Krt2-6g; mK6irs; mK6irs1 |
| Mammalian Cell Selection: | Neomycin                                         |
| Vector:                   | pCMV6-Entry (PS100001)                           |
| E. coli Selection:        | Kanamycin (25 ug/mL)                             |



[View online »](#)

**ORF Nucleotide  
Sequence:**

>MR226471 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGCCGCCAATTCACCTGCAAGTCTGGAGCCAGCAACAGGGGCTTCAGTGTTGCTCCGAGTGTCTCT  
 CTGGGGGAAGCTCATCCTCTACCGGCAGGAGGCAAAGGGCTCAGCGGGGGCTTTGGCAGTCGGAGTCT  
 CTACAGCCTGGGAGGTGGCAGGAGCATCACTCTTAACATGGCTAGTGGCAGCGGGAAGAACGGAGGTTTT  
 GGATTTGGCCGGAACCGAGCCAGTGGCTTTGCCGGAAGTATCTTTGGCAGTGTGGCCCTGGGGCCCGTGT  
 GCCCTGTGTGTGCCCGCTGGCGGTATCCATCAGGTACAGTCAATGAAAGCCTTCTGGCCCCACTCAA  
 TGTGGAGCTGGACCTGAGATCCAGAAGGTGCGGCACAGGAGCGGGAGCAGATCAAGGCTCTGAACAAC  
 AAGTTTGCCTCCTTCATTGACAAGGTGCGCTTCTTGGAGCAGCAGAACCAGGTGCTGCAGACCAAGTGGG  
 AGCTGCTGCAGCAGCTGGACCTGAACAACCTGCAAGAACAACCTGGAACCCATCCTTGAGGGCCACATCAG  
 CAACATCGCGAAGCAGCTGGAGACGCTGTCTGGGGACAGAGTGAAGCTGGACTCTGAGCTGAGGAATGTG  
 CGTGACGTGGTGGAGGACTACAAGAAGAAGTATGAGGAGGAGATCAACCGCGGACAGCTGCCGAGAATG  
 AGTTTGTGCTGTGAAGAAGGACGTGGATGCAGCTTATGCCAACAAGGTGGAAGTGCAGGCCAAGGTGGA  
 CACCATGGACCAGGACATCAAAATCTTCAAGTGTCTGTTCAAGCCGAGATGGCTCAGATCCAGTCCCAT  
 ATCAGCGACATGTCCGTATCCTGTCCATGGACAACAACAGGAACCTGGACCTGGACAGCATCATTGATG  
 AGGTTTCGCGCCAGTATGAGGAGATTGCCCTGAAGAGCAAGGCTGAAGCTGAGGCCCTGTACCAGACCAA  
 GTTCCAGGAGCTGCAGCTGGCAGCTGGTCGCCATGGAGATGACCTCAAAAACACCAAAAATGAAATCACT  
 GAGCTGACCCGGTTCATCCAGAGACTCCGCTCAGAGATTGAGAACGCAAGAAGCAGGCTTCTAACCTAG  
 AGACGCCATCGCTGATGCCGAGCAGCAGGTGACAGTGCCTCAAGGATGCCCGGCCAAGCTGGATGA  
 GCTGGAGGGTGCCCTGCACCAGGCCAAGGAGGAGCTGGCCAGGATGCTGCGTGAATATCAGGAGCTCATG  
 AGCCTAAAGTTGGCCCTGGACATGGAGATTGCCACCTACCGCAAACCTTCTGGAGAGCGAGGAGTGCAGGA  
 TGTCCGGAGAATACTCTTCCCCGTGAGCATCTCATTATCAGCAGCACCAGTGGCAGTGGAGGCTATGG  
 CTTCCGGCCAGCAGTCAGCGGTGGCTACGTGGCCAATAGCACTAGCTGCATCTCTGGAGTGTGAGT  
 GTCCGTGGTGGGAGAACAGGAGCAGAGGTAGTGCCAGCGACTACAAGGATACCCTAACAAAGGGCTCCA  
 GTCTGAGCACCCCTCAAGAAAGGTGGCCGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR226471 protein sequence  
 Red=Cloning site Green=Tags(s)

MSRQFTCKSGASNRGFSGCSAVLSGGSSSSYRAGGKGLSGGFGSRSLYSLGGGRSITLNMASGSGKNGGF  
 GGRNRASGFAGSIFGSVALGPVCPAVCPPGGIHQVTVNESLLAPLNVELDPEIQKVRAQEREQIKALNN  
 KFASFIDKVRFLQEQNQVLQTKWELLQQLDLNCKNNLEPILEGHISNMRKQLETLSGDRVRLDSELNVR  
 RDVVEDYKKKYEEEEINRRTAAENEFVLLKKDVAAYANKVELQAKVDTMDQDIKFFKCLFEAEMAQIQSH  
 ISDMSVILSMDNNRNLDSIIDEVRAQYEEIALKSKAEAEALYQTKFQELQLAAGRHHDDLKNTKNEIT  
 ELTRFIQRLRSEIENAKKQASNLETAIADAEQRGDSALKDARAKLDELEGALHQAKEELARMLREYQELM  
 SLKLALDMEIATYRKLESEECRMSGEYSSPVSISIISSSTSGSGGYGFRPSTVSGGYVANSTSCISGVCS  
 VRGGENRSRGSASDYKDTLTKGSSLSTPSKKGG

**TR**TRPLE**QKL**ISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_019956

**ORF Size:** 1572 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_019956.1](#), [NP\\_064340.1](#)

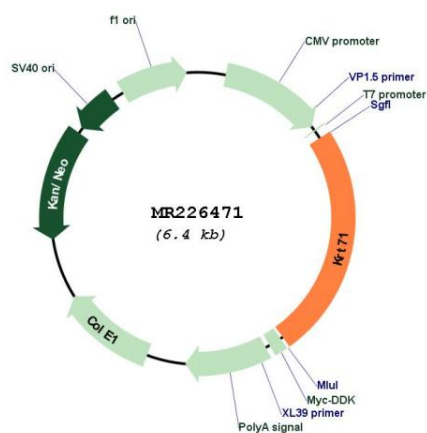
**RefSeq Size:** 2193 bp

**RefSeq ORF:** 1575 bp

**Locus ID:** 56735

|               |                                                                                                                                                                                   |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UniProt ID:   | <u><a href="#">Q9R0H5</a></u>                                                                                                                                                     |
| Cytogenetics: | 15 57.0 cM                                                                                                                                                                        |
| MW:           | 57.4 kDa                                                                                                                                                                          |
| Gene Summary: | Plays a central role in hair formation. Essential component of keratin intermediate filaments in the inner root sheath (IRS) of the hair follicle.[UniProtKB/Swiss-Prot Function] |

## Product images:



Circular map for MR226471