

## Product datasheet for **RR215617**

### **Krt72 (NM\_001008809) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Krt72 (NM_001008809) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Krt72
Synonyms:	Kb35
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR215617 representing NM\_001008809  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGCCGCCAGTTGACCCTCTATCCTGGTGTGAGCGCCTGGGTTTCAGTGTTGCTCAGCTGTATCT  
 CAGGCCGTTTCAGCGGCAGCCACGCCTCGGTCCGGCCGGGGTCAAGGGAGCAGCATTTGGCAGCAGAAG  
 CCTGTTTTGTGTGGGGGGCGCCGGAGGCTGGCATTGAGCTCTGGGGGGCGGAGCGCGCTTCACTCTG  
 GGTACGGAGGGGCGAGCGGTGGGCGTCCCGGGGCTTTGTGGCACTGTCTTTGGCAGCGCGGGCTGG  
 GGCCACATGCCATCTGTGTGCCCGCCGGGCGCATCCCCAGGTCGTCGTCAACAAGAGCCTTTTGGC  
 CCCACTCAATGTGGAGCTGGATCCGGAGATCCAGAAGGTGCGGGCCAGGAGAGGGAGCAGATCAAGGCT  
 CTGAATAACAAGTTGCCTCCTTATCGACAAGGTGCGCTTCTGGAGCAGCAGAACCAGGTGCTGGAGA  
 CCAAGTGGGAGCTGCTGCAGCAGCTGGACCAGAACAACCCAGGAGGAGCCTGGAGCCGGTACATGAGAG  
 TTACATCAGCAACTTGCAGAAGCAGCTGGAGATCCTGTCTGGGGACAGGTTGAGGCTGGACTCGGAGCTG  
 AGGAACATGAGGGAAGTGGTGGAGGACTGTAAGAAGAGGTATGAGGTAGAGATTAAACAGACGCACGGCTG  
 CCGAGAATGAGTTCGTGGTGTGAAGAAGGATGTGGATGCTGCTTACATGAACAAGTGGAGCTCCAGGC  
 CAAGGTGGACTCCATGACAGATGACATCAAATCTTCAAGGTCCTCTTTGAAGGGGAGATTGCTCAGATG  
 CAGTCCCACATCAGCGACACGTCCTGTCATTCTGTCCATGGACAATAATCGGCAGCTGGACCTGGACAGCA  
 TCCTGGCCGAGGTTTCAGCCAGTATGAGGAGATTGCCGTGAAGAGCAAGGCGGAGACAGAGAACATGTA  
 CCAGTGTAAAGTCCAGGAGCTGCAGGCCACTGCAGGCCAGCACGGGGACGACCTCAAACCTACCAAGTCC  
 GAGATCACAGAGATCAACAGGCTGATCCAGAGAATCCACTCAGAGATAGGAAACATGAAGAAACAGTGTCT  
 CCAACCTGGAGACGGCCATTGCTGACGCTGAACAGAGAGGTGACTGTGCTCTCAAGGATGCCCGGGCCAA  
 GCTGGACCAGCTGGAGGGAGTCTTTCAGCAGTCCAAGGAAGAGCTGGCCCGCATGCTGCGTGAGCACCCAG  
 GAGCTCATGAACGTCAAGCTGGCCCTGGACATGGAGATCGCCACCTACAGGAAGCTGCTGGAGAGCGAGG  
 AGAGCCGGATGGCTGGTGAATACCAAGTTCTGTGAGCATTCTGTTGTTAGCAGTACCAATGCAGGACC  
 AGGAGGGGCTGGCTTCAGTGTGGCTTTGGCGCCTCGAGCAACTACAACCTACAGACCTCTGGCCCTGGAG  
 GTGAAGACTAAGGGCAGCTGCGGCAGCGAGCTCAAGGATCCCCCGGCCAAAACCTCAGCCAGCAGCTGTG  
 TGAGCAAAAAAGCCTCCAGACAGACAGGGGAGGTGTCACGAGCAGACGGCTGTGCAACCCATTCTCCTGT  
 TCTCTCCCTCCTGTCCCTTCCAAGTCAGGAAGTGTCTTCTCCATCAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR215617 representing NM\_001008809  
 Red=Cloning site Green=Tags(s)

MSRQLTLYPGAERLGFSGCSAVISGRFSGSHASVRAGVKGAAFGSRSLFCVGGRRLLALSSGGRSGGFTL  
 GHGGASGGRPGGFVGTVFGSAGLGPTCPSPVGGIPQVVVNKSLAPLNVELDPEIQVRAQEREQIKA  
 LNNKFASFIDKVRFLQQNQVLETKWELLQQLDQNNRRSLEPVHESYISNLQKQLEILSGDRVRLDSEL  
 RNMREVVEDCKRYEVEINRRTAAENEFVVLKDVDAAYMNKVELQAKVDSMTDDIKFKVLFEGEIAQM  
 QSHISDTSVILSMDNNRQLDLDSILAEVRAQYEEIAVKSKAETENMYQCKIQELQATAGQHGDLLKTKS  
 EITEINRLIQRIHSEIGNMKKQCSNLETAIADAEQRGDCALKDARAKLDQLEGLVQQSKEELARMLREHQ  
 ELMNVKLALDMEIATYRKLLSEESRMAGEYPSVSVSVSSTNAGPGGAGFSVGFAGSSNYRPLALE  
 VKTKGSCGSELKDPKATSASSCVSKASRQTGEVSRADGCATHSPVLFPPVPSQVRKCFLHH

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

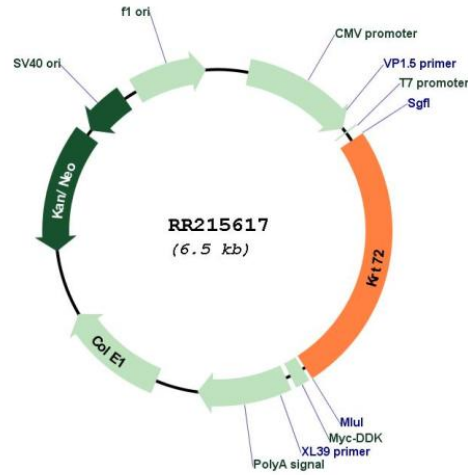
Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



<b>ACCN:</b>	NM_001008809
<b>ORF Size:</b>	1659 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001008809.1</a> , <a href="#">NP_001008809.1</a>
<b>RefSeq Size:</b>	1662 bp
<b>RefSeq ORF:</b>	1662 bp
<b>Locus ID:</b>	406227
<b>UniProt ID:</b>	<a href="#">Q6IG04</a>
<b>Cytogenetics:</b>	7q36
<b>MW:</b>	60.4 kDa
<b>Gene Summary:</b>	Has a role in hair formation. Specific component of keratin intermediate filaments in the inner root sheath (IRS) of the hair follicle (By similarity).[UniProtKB/Swiss-Prot Function]