

## Product datasheet for **RR207743**

### **Krt12 (NM\_001008761) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Krt12 (NM_001008761) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Krt12
Synonyms:	Ka12; Krt1-12
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR207743 representing NM\_001008761  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCGCTTT**CAGTCCGCACCTCTGCGCTATCCAGGAGGTCATCCTCACAGAATGGGGTGGCAGGCAGAC**  
**CTTGGGGTGCATCTGCTTCTAGTGTTCCTGTGGCTATGGGGAAACAGCCTCTGGCTTTGGAGTTGGCTG**  
**TGGAGGGCTCCTTTCTGCGGCTTCCATGTTGGGTCTAGTTCTGGCTTTAGCGGTGGCTCTACAGTTGC**  
**TCGCCAGGGCTCGGCACTGCCTATGGGGACCTCTGGAGCCGGTGTGGGAGGAATGGGGATAGGGGGTA**  
**GCTCGGGCGGTGGCTCTCTGTGTATCTTTCTGGCAATGATGGAGGACTTCTTTCTGGTTCTGAAAAAGA**  
**AACCATGCAAAATCTGAATGATAGACTAGCTTCTACCTGGTAAAGTTTCGCGCTCTAGAGGAAGCTAAC**  
**GCGGAAGTGGAAAACAAATTCGAGAGTGGTATGAAACTCGAAGAAGTGGAGACTCCGGTCCCAGAGTG**  
**ATTACAGTAAATACTACCGCTGATTGAGGACCTGAAGAATAAGATCATTTCTGCCAGCGTCAGCAATGC**  
**CCAGCTCCTCCTGCAGATTGACAACGCACGGCTGGCTGCAGAGGACTTCAGGATGAAGTATGAGAACGAG**  
**CTGGCCCTGCGCCAGACTGTGGAGGCCGACATCAACGGGCTGCGCAGGGTCTGGACGAGCTGACCTGG**  
**CCAGAGCCGACCTGGAAGCACAGACTGAGAACCTGACTGAGGAGCTGGCTTACATGAAGAAGAACCACGA**  
**GGAGAACTCCAAAGTTTCCAGGCAGGTGGTCCAGGTGAGGTCAATGTAGAAATGGACGCCGACCTGGA**  
**GTGGACCTCACCAAGAGCGGAGAGCTCAGAAAAGAGATCAACAGCAACACGGAGCAGCTTTCAGTCCAGCA**  
**AGAGCGAGGTACCGACCTCAAGCGCATGGTGCAGAACCTGGAGATTGAAGTCCAGTCCCAGCTCGCCAT**  
**GAAGTCGTCCTGGAAGGCTCGCTGGCTGAAACCGAGGGTGGATACTGCTGCCAGCTATCTCAGATGCAG**  
**CAGCTTATTGGCAGCCTGGAGGACAACTCCAGCAGTTGCGGGCTGATGCAGAGCCGAGAACGAGGACC**  
**ACCAGCGGCTGCTGGGCGTCAAGGCTCGCTGGAGATGGAGATTGAGACCTACCGCCGGCTCCTGGAGGG**  
**GGATACCCAAGGTGATGGTTTTGATGAAAGCTTATCCCTCACGGTCTCCAAACCTCAGGCACCATCAGTC**  
**GACTCCTCTAAAGACCCAAATAAACTCGAAAAATCAAGACAGTCGTGCAGGAGATAGTGAATGGCGAAG**  
**TGGTCTCATCCAGGTT**CAGGA**CTTGAAGAAGCGATG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR207743 representing NM\_001008761  
 Red=Cloning site Green=Tags(s)

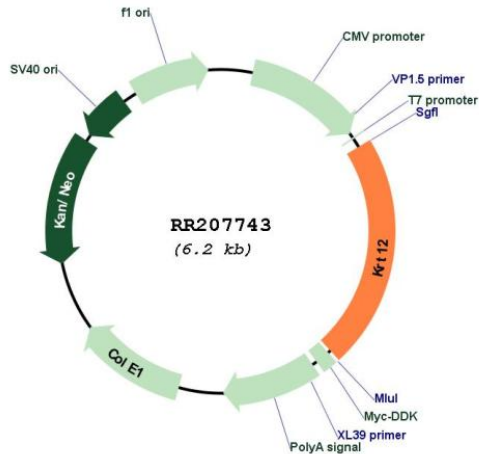
MSLSVRTSALSRRSSSQNGVAGRPWGASASSVACGYGGTASGFVGVCGLLSAASMFGSSSGFSGGSTGC  
 SPGLGTAYGGPLGAGVGMIGGSSGGSLCIFSGNDGLLSGSEKETMQNLNDRLASYLKVRALEEAN  
 AELENKIREWYETRRTGDSGSQSDYSKYPLIEDLKNKIISASVSNAQLLLQIDNARLAAEDFRMKYENE  
 LALRQTVEADINGLRRVDELTLARADLEAQTENLTELAYMKNHEEELQSFQAGGPGEVNVEMDAAPG  
 VDLTKSGELRKEINSNTEQLQSSKSEVTDLKRVMQNLIELQSQLAMKSSLEGLAETEGGYCCQLSQMQ  
 QLIGSLEEQLQLRADAERQNEHQRLLGVKARLEMEIETYRRLLEGDTQGDGFDESLSLTVSKPQAPSV  
 DSSKDPNKTRKIKTVVQEVNVEVSSVQVELEEM

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001008761

**ORF Size:** 1368 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\\_001008761.1](#), [NP\\_001008761.1](#)

**RefSeq Size:** 1371 bp

**RefSeq ORF:** 1371 bp

**Locus ID:** 360625

**UniProt ID:** [Q6IFW5](#)

**Cytogenetics:** 10q31

**MW:** 48.8 kDa

**Gene Summary:** May play a unique role in maintaining the normal corneal epithelial function. Together with KRT3, essential for the maintenance of corneal epithelium integrity (By similarity).  
[UniProtKB/Swiss-Prot Function]