

## Product datasheet for **RR213993**

### **Krt2 (NM\_001008899) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Krt2 (NM_001008899) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Krt2
Synonyms:	CK 2e; Kb2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide  
Sequence:

>RR213993 representing NM\_001008899  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGAGTTGCCAGATCTCCTGCAAGTCCCGAGAGGAGGAGCGGAGGAGGAGCGGTGGATTGAGGGCT  
TCAGTAGTGGCTCAGCTGTGGTCTCTGGAGGGAGCCGGAGATCGACTTCCGGCTTCTCCTGCCTGAGCCG  
CCACGGTGGTGGCAGAGGAGGCTCTGGTGGAGGTGGCTTTGGCAGTCAGAGTCTTGTGGCCTTGGAGGG  
TACAAGAGCATCTCTAGTAGCGTGGCTGGCTACGGTGGTGGATTTGGTGGCAGAAGCTACGGTGGCTTCG  
GAGGCGGCAGCGGCTTTGGAGGCAGCGGTGGCTTCGGAGGTGGCTCTGGCTTTGGAGGAGCCGAGGATT  
TGGAGGTGGTAGCGGTTTCGGAGGCGGCAGCGGCTTTGGAGGTGGCAGCGGCTTTGGAGGTGGCAGCGGC  
TTCGGAGGCGGTGGATTTGGCGGAGGACGCTTTGGAGGTGGCCCTGGAGGTTTTGGGGCCCTGGAGGAT  
TCCCTGGTGGAGGCATCCATGAAGTGTCTGTCAATCAGAGCCTCTGCAGCCTCTTGATGTTAAAGTGA  
CCCAGAGATTAGAAGTCTCAGGAACGGGAGCAGATCAAAACCTCAACAACAAATTTGCCTCT  
TTCATTGACACGGTGCATTCTGGAGCAGCAGAACAGGTGTTGCACACCAATGGGAGCTGCTGCAGC  
AGCTGGATGTAGGCACCCGTACCAACCTGGACCCCGTCTCCAGGCCTACATTGGCATACTCAAGAA  
GCAGGTGGACAGGCTAACTGCGGAAAGGAACCTCACAGGATTCAGAGCTGAACAACATGCAGGATCTCGTG  
GAAGACTTTAAGAAGAAGTACGAGGACGAGATCAACAAGCGCACGCTCTGCGGAGAATGATTTCTGACCA  
TCAAAAAGGACGTGGACAGTTGCTACATGGACAAGACAGAGCTGCAGGCCAAGATGGAGATGCTGACACA  
GGAAGTCGATTTCTGAGAACCTCTACGACACGGAACCTGACCTGGACAGCATATTGCTGAAGTTCAGAGCC  
AATGTCATCCTGTCCATGGACAACAACCGAACCTTACCTGGACAGCATATTGCTGAAGTTCAGAGCC  
AATCCAGGATCATCGCCACAAGAGCAAGGCTGAGTCGGAGGAGCTGTACCACAGCAAGGCAAATGAAGA  
ACTCCAGGTACCGCTGTGAAACATGGGGACAGCTTGAAGAGATCAAGATGGAGATCAGCGAGTTGAAC  
CGAACATCCAGAGGCTGCAAGGGGAGATACACATGTGAAGAAGCAGTGTAAAGGTGTGAAGACTCCA  
TTGCAGATGCAGAGCAGCGTGGGGAGCAGCCATCAAAGATGCCAGGGGCAAGCTCACTGACCTGGAGGA  
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CTTTGGCTCCGGAGGTCAAAGTTCAGGAGGAAGAGGGTCTTACGGCGGAAGAGGAGGAGGAAGCACCTAT  
GGCTCTGGAGGCAGAAGCTCTGGTGTGAGAGGATCTGGATCAGGATCTGGAGGAGCGGATACAGTTCTG  
GAGGAGGCTCCAGGGGAGGATCTGGAGGAGGAGGATACAGCACTGGAGGAGGTTCTAGAGGAGGCTCCAG  
CTCTGGAGGGGAGGATACAGCTCTGGAGGGGCTCTAGAGGTGACTCCAGCTCTGGAGGAGGCTCCAGG  
GGAGGATCTGGAGGAGGCTCCAGGGGAGGATCTGGAGGAGGAGGATACAGCTCTGGAGGAGGCTCTAGAG  
GAGGCTCCAGCTCTGGAGGGCAGTGTCCGGCTCTGAAAGGGGTGGTTCTGGGTCAGGGGAAGGTTGCGG  
CTCCGGCGTGACCTTCTCCTTTAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR213993 representing NM\_001008899  
 Red=Cloning site Green=Tags(s)

MSCQISCKSRGGGGGGGGFRGFSSGSAAVSGGSRSTSGFSCLSRHGGGRGGSGGGFSGSQLVGLGG  
 YKSISSSVAGYGGGFGRSYGGFGGSGFGGGSGFGGGRGFGGGSGFGGGSGFGGGSGFGGGSG  
 FGGGFGGGRFGGGPGGFGGPGGFGGGIHEVSVNQSLQLPLDVKVDPEIQNVKSQEREQIKTLNKFAS  
 FIDTVRFLEQQNQVLHTKWELLQQLDVGTRTTNLDPVFQAYIGILKKQVDRLTAERNQDSELNMQDLV  
 EDFKKEYEDEINKRTSAENDFVTIKKDVDSCYMDKTELQAKMEMLTQEVDFLRTL YDELSQLQQNVDT  
 NVILSMDNRRNLDLSIIAEVQSQYEIIAHKSKAESEELYHSKANEELQVTAVKHGDSLKEIKMEISELN  
 RTIQRLQGEISHYKQCKGVQDSIADAEQRGEHAIKDARGKLTDLLEALQQGRENLARLLRDYQELMNVK  
 LALDVEIATYRKLEGEECRMSGDFSDNVSVSVTSSTISSSVASKAGFGSGGQSSGGRGSGYGGGGSTY  
 GSGGRSSGVRGSGSGGGGYSGGGSRGGSGGGYSTGGGSRGGSSGGGGYSGGGSRGDSGGGSR  
 GSGGGSRGGSGGGYSGGGSRGGSSGGAVSGSERGGSGSGEGCGSVTF SFR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

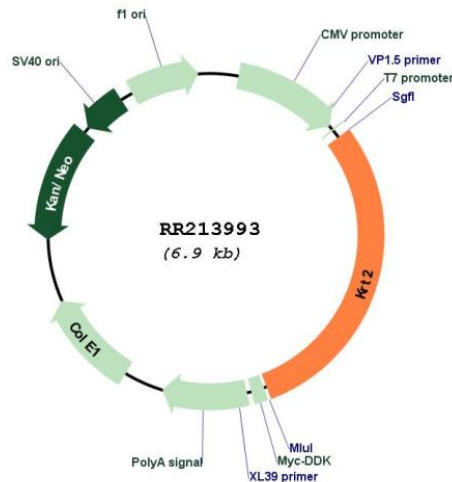
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



## Plasmid Map:



ACCN: NM\_001008899

ORF Size: 2055 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\\_001008899.1](#), [NP\\_001008899.1](#)

RefSeq Size: 2058 bp

RefSeq ORF: 2058 bp

Locus ID: 406228

UniProt ID: [Q6IG02](#)

Cytogenetics: 7q36

MW: 69.1 kDa

**Gene Summary:** Probably contributes to terminal cornification. Associated with keratinocyte activation, proliferation and keratinization (By similarity). Plays a role in the establishment of the epidermal barrier on plantar skin (By similarity).[UniProtKB/Swiss-Prot Function]