

Product datasheet for **RR208744**

Krt10 (NM_001008804) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Krt10 (NM_001008804) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Krt10
Synonyms:	Ka10
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR208744 representing NM_001008804
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTGTTCGATTAGCTCCAACAGCAGGCAGTACTCCTCCGCCCGAGTGGAGGAGGAGGAGGAGGTG
 GTGGTGGTGGATCATCCATCAGAGTTTCCAGCACCAAAAGCTCCCTTGGTGGAGGTACAGCTCAGGGG
 GTTCAGCGGTGGCTCTTTTAGCCGTGGGAGCTCTAGCGGAGTTGCTTTGGGGGCTCATCAGGTGGCTAT
 GGAGGCTTTGGAGGGGCGAGCTTCGGGGGTGGCTATGGAGGAGGCAGCTTTGGTGGAGGCTACGGAGGAG
 GCAGCTTTGGTGGAGGCTATGGAGGAGGCAGCTTCGGTGGAGGATATGGAGGAGGCAGCTTCGGTGGAGG
 CAGCTTCGGTGGAGGAAGCTTCGGTGGAGGAAGCTTCGGCGGTGGGCTTGGAGGAGATGGTGGTGCCTT
 CTCTCTGAAAATGAAAAGGTGACCATGCAGAACCTGAATGACCGCTGGCCTCTACATGAACAAGGTCC
 GGGATCTGGAAGAGTCAAATATGAGCTGGAGGGTAAAAACAAGGAGTGGTACGAGAAGCACGGCAACTC
 CAGCCAGCGAGAGCCCCGGGACTACAGCAAATACTACAAAACCATCGAAGACCTTAAAGGGCAGATCGTC
 AACCTGACAACCTGACAATGCCAATGTCCTGCTGCAGATTGACAATGCCAGACTGGCAGCTGATGACTTCA
 GGCTGAAGTATGAGAATGAAGTAGCCCTGCGCCAGAGTGTGGAGGCCGACATTAATGGCCTGCGCAGGGT
 GCTGGACGAACCTGACCCTCAGCAAGGCTGACCTGGAGATGCAGATCGAAAGTTTACTGAAGAGCTGGCT
 TACCTGAAGAAGAACCACGAAGAGGAAATGAAAGACCTTCAAAATGTATCCACTGGTGTGTGAACGTGG
 AAATGAACGCTGCCCCAGGGGTGGACCTGACTCAGCTGCTCAACAACATGAGAAACCAATACGAACAAC
 TGCAGAAAAGAATCGCAAGGACGCAGAAGCCTGGTTCAATGAGAAGAGCAAGGAACTCACACAGAAATC
 GACAGCAACATTGAACAAATGTCCAGCCATAAGAGTGAATCACTGAATTGAGACGCAGTGTTCAGGGTC
 TGGAGATCGAACTACAGTCCCAGCTGGCCCTGAAACAATCGCTGGAAGCCTCCTTGGCAGAAACGAAG
 ACGCTACTGCGTGCAGCTCTCCAGATTCAAGCCAGATCTCCGCCCTGGAGGAACAACCTGCAACAGATT
 CGGGCTGAAACCGAGTGCAGAACGCGGAGTACCAACAACCTCCTAGACATTAAGACCCGCTGGAGAACG
 AGATCCAAACCTACCGCAGCCTGCTAGAAGGAGAAGGAGGGTATGTTGAAAACCTGCAAATAACCTCAA
 TTGCTTTCCTTCAAGATTCCACTTAGCAAAGCTTACCAAACCAAGGAAAAACAGAGGCTGGAAGGGG
 AGCAATACTAATAAAAACAGAGTATCAAGACGATTATTGAGGAGGTGACACCTGAGGGTAGAGTCTTT
 CGTCTATGATTGAATCAGAAACCAAGAAACACTTCTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR208744 representing NM_001008804
 Red=Cloning site Green=Tags(s)

MSVRFSSNSRQYSSARSGGGGGGGSSIRVSSSTKSSLGGYSSGGFSGGSFSGSSSGGCFGGSSGGY
 GGFGGGSFGGYGGGSFGGYGGGSFGGYGGGSFGGYGGGSFGGYGGGSFGGYGGGSFGGYGGGSFGGYGGGSF
 LSGNEKVTMQNLNDRLASYMKNVRDLEESNYELEGGIKIKEYEKHGNSSQREPRDYSKYKTIEDLKGQIV
 NLTTDNANVLLQIDNARLAADDFRLKYENEVALRQSVEADINGLRRVDELTLKADLEMQIESLTEL
 YLKNHEEEMKDLQNVSTGDVNVEMNAAPGVDLTQLLNMRNQYQLAEKNRDAEAWFNEKSKELTTEI
 DSNIEQMSHKSEITELRRTVQGLEIELQSQLALKQSLEASLAETEGRYCVQLSQIQSQISALEEQQQI
 RAETECQNAEYQQLLDIKTRLENEIQTYRSLLEGGYVGNLQITLNCFPSEFHLAKLTQTQKTRGWKG
 SNTNKTRVIKTIIEEVTPEGRVLSMIESETKKHFY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

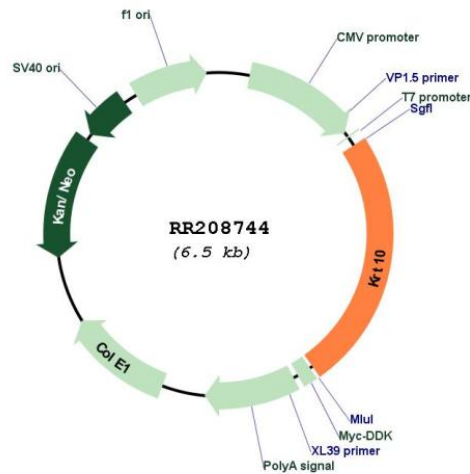
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_001008804
ORF Size:	1578 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:	<ol style="list-style-type: none">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_001008804.1 , NP_001008804.1
RefSeq Size:	1581 bp
RefSeq ORF:	1581 bp
Locus ID:	450225
UniProt ID:	Q6IFW6
Cytogenetics:	10q31
MW:	56.5 kDa
Gene Summary:	Plays a role in the establishment of the epidermal barrier on plantar skin.[UniProtKB/Swiss-Prot Function]