

Product datasheet for **RR200834**

Krt5 (NM_183333) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Krt5 (NM_183333) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Krt5
Synonyms:	Krt2-5; Sak57
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR200834 representing NM_183333
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCTCGCCAGTCCAGTGTCTCTCCGAAGCGGGGAGCCGCTCTTTCAGCGCCGCTTCTGCCATCA
 CCCCATCTGTCTCTCGTACCACCTTCAGCTCGGTGTCCCGCAGTGGTGGTGGTGGCAGGGTACGCC
 TGGTGGCGCTTACGGAGCCGGGGCTATGGCAGCCGAAGCCTGTACAATGTGGGGGGCTCCAAAAGGATC
 TCCTTCAGTTCTGGCGGAGGTAGCTTCAGGAACCAATTTGGTGCCGGTGTGGAGCGGCTATGGTTTG
 GAGGAGGAGCAGGCAGTGGATTTCGGCTTTGGTGGTGGAGCTGGCAGTGGCTTTGGCTTCGTGGTGGAGC
 TGGCTTTGGTGGTGGCTATGGTGGAGCTGGCTTCCTGTGTGCCCCCTGGTGGCATCCAAGAGGTCA
 GTTAACCAAGAATCTCTCACACCCTGAACCTGCAAAATCGATCCCACCATCCAGCGGGTCAAGACTGAGG
 AGAGGGAGCAGATCAAGACCCTCAACAACAAGTTGCCTCTTCATCGACAAGGTGCGGTTCCTGGAGCA
 GCAGAACAAGTCTGGACACCAATGGACCCTGCTGCAGGAGCAGGGCACAAGACCATAAAGCAGAAC
 CTGGATCCGTTGTTTGAACAGTACATTAACAACCTCCGTAGACAGCTGGATGGGGTTCATGGGGGAGAGGG
 GCCGCCTGGACTCGGAGCTGAGGAACATGCAGGATCTGGTGGAGGACTACAAGAACAAGTACGAGGATGA
 GATCAACAAGCGTACCACGGCTGAGAATGAATTCGTGATGTTGAAGAAGGATGTGGACGCGGCCTACATG
 AACAAAGTGGAGCTAGAAGCTAAGTTGATGCCCTAATGGACGAGATCAACTTCATGAAGATGTTCTTTG
 ATGCGGAGCTGTCCAGATGCAGACACATGTCTCTGACACATCTGTGGTCTCTCCATGGACAACAACCG
 TAGCCTGGACCTGGACAGCATCATCGTGTAGGTCAAGGCCAGTACGAGGACATTGCCAACCGCAGCCGA
 ACAGAGGCTGAGTCTGGTACCAGACCAAGTACGAGGAGCTGCAGCAGACAGCCGGCCGGCAGGAGATG
 ACCTCCGCAACAACCAAGCATGAGATCTCAGAGATGAACCGGATGATCCAGAGGCTGAGATCCGAGATCGA
 CAATGTCAAGAAGCAGTGTGCCAACCTCCAGAATGCCATCGCCGAGGCTGAGCAGCGTGGGGAGCTGGCT
 CTCAAGGATGCCAGAAACAAGCTGACTGAGCTGGAGGAGGCCCTGCAGAAGGCCAAGCAGGACATGGCCC
 GGCTGCTGCGCGAGTACCAGGAGCTCATGAACACCAAGCTGGCCCTGGATGTGGAGATCGCCACCTACAG
 GAAGCTGCTGGAGGGACAGGAGTGCAGGCTGAGTGGAGAAGGAGTTGGACCGGTCAACATCTCTGTCTG
 ACTAACAGCCTCTCTTCTGGCTATGGAGGAAGAAGCAACATTGGCTATGGCTTTGGTTGGGCGAGTGGCA
 TTGGGGGTTTTGCCTCAGATATCGGCCCGCTCTTGAACAGGCTCGGTTTGGGTAGTGGGCTCAGTGTGG
 GGGCTCCGGCTCAGTGAAGCAGTGGTCAAGGTGGGGGTTTTCAGCAGTGGTGGTGGCAGCAGCTCCAGT
 GTCCAATTTGTCTCCACCACCTCTCTCCCGGAGGAGCTTCAACAGC

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR200834 representing NM_183333
 Red=Cloning site Green=Tags(s)

MSRQSSVSFRSGGSRFSASAITPSVSRRTTSSVSRSGGGGRVSLGGAYGAGGYGSRSLYNVGGSKRI
 SFSSGGGFRNQFGAGAGGGYGFGGAGSGFGGGAGSGFGFRGGAGFGGGYGGAGFPVCPGGIQEVT
 VNQNLLTPLNLQIDPTIQRVRTEEREQIKTLNKFASFIDKVRFLQQNKVLDTKWTLLEQGTIKQNL
 LDPLFEQYINNLRQLDGVMERGRLDSELRNMQDLVEDYKNKYEDEINKRTTAENEFVMLKDVDAAYM
 NKVELEAKVDALMDEINFMKMFFDAELSQMQTHVSDTSVVLSDNNRSLDLSIIAEVKAQYEDIANRSR
 TEAESWYQTKYEELQQTAGRHGDDLRLNTHKHEISEMNRMIQRLRSEIDNVKQCANLQNAIAEAEQREGEL
 LKDARNKLELEALQKAKQDMARLLREYQELMNTKLALDVEIATYRKLLEGQECRLSGEGVGPVNI
 SVVTNSLSSGYGGRSNIYGFGLGSGIGGFASDIPLLNRLGLGSLSVGGSGFSASSQGGGFSGGGSSSS
 VQFVSTTSSRRSFNS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

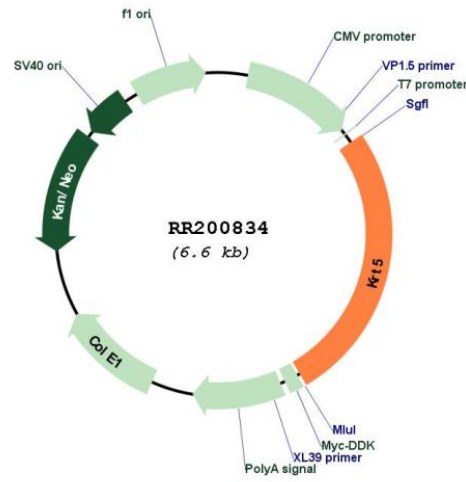
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_183333
 ORF Size: 1728 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_183333.1 , NP_899162.1
RefSeq Size:	2088 bp
RefSeq ORF:	1731 bp
Locus ID:	369017
UniProt ID:	Q6P6Q2
Cytogenetics:	7q36
MW:	61.9 kDa
Gene Summary:	cytoskeletal intermediate filament protein; provides a cortical scaffold to primary spermatocytes [RGD, Feb 2006]