

Product datasheet for **MR216510**

Krt9 (NM_201255) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Krt9 (NM_201255) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Krt9
Synonyms:	EPPK; K9; Krt1-9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR216510 representing NM_201255, **codon optimized**.
Due to the complexity of NM_201255, the ORF clone is codon optimized for mammalian Expression.
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGTCTTGCCGCCAGAGTAGTTCATCTTTTTGGTCTTCCTCTAGTAGCTGTGGGGCGGAGGCGGTAGAG
 GTGGATCTGGAGGTCATGAGGAGCAGCTTCAGCAGAAGCAGTAGAGCGGGAGGGGGCGGCGGAGGCAG
 GTTTAATAGTTCAAGTGGCTTTAGTGGGGTGGCTTCTCAGCCTCGGGGGTGGGGAGGTGGTCTTT
 GGGAGCTCCTACGAGGGGGTATGGCGCGGTTTCTCTACCGGCAGTTACAGCGCATGTTCCGGGGAG
 GGTCCGGCGGGGCTTCGGGGAGGGAGTGGAGGCGGTTTCGGTGGAGGCAGCGGAGGTGGCTTTGGAGG
 TGAAGCGGAGGCGGCAAGCGGCATCTCAACACCAATGAGAAGATCGTTATGCAAAACCTGAACAGC
 AGACTGGCATCTTATATGGAGAAGTGTGGAGCTGGAAGAATCAAACTGCCATGGAGAAACAGATAC
 AAGACTGGTATAGCAAGCGAGGCCCTAAGTCTTCAGAAGGACAATACTCACTATTACGACACTATTGA
 GGACCTTAAGGACAGAATCGTTGACCTCACAGTACGCAACAATAAAACCTGGTGGACATTGACAACACC
 AGAATGACTATGGATGACTTCAGAGTAAAACGAAATGGAGCAGTCCCTGAGACAAGGGTTCGAGGGGG
 ACATCAACGGTCTGAAGAAGTGTGATGATCTTGTCTGTCATGGCCAAGAGTATCTGGAGATACTGCTGGA
 TAGCCTGGAGGACGAAAAGAACGCACTGACTAAAACCAATAAGGAGGAGATGCCAGCTTACAGGGGAG
 AATGATGGTGACGTTAATGTAGAAATAAACGTGGCCCATCAACCGACCTACCAGGGTGTCAATGACA
 TGC CGAAGAATACGAGCAGCTCATCTCAAAAAATCGCCAGGACATTGAACAGCATTACGAAAGCAAAAT
 GACACAGATCGAGCAGCAGATGACCAACAGCGGCAGGAAATGGAATCTAATATGAAGCAGGTTAGCCAG
 CTGCGACACACAATCCAGGAACTGAATGTGGAGTTGCAGACCCAGCTGACCACCAATCTGCCCTGGAAA
 AGGCTCTGGAAGACAGAAAACCGATACTGTGGCAATTGCAACAAATACAGGAGCAGATTAGCGAATT
 GGAGGCTCAGCTGGCTGAAATTAGAGCTGAAACAGAGTCCAGAGTCAGGAATACTCCATCTGCTCAGC
 ATCAAGACCAGGCTGAAAAGGAGATTGAGACATATCGGGAGTTGCTGGAAGCGGACAGCAGGATTTG
 AATCCAGCGGTGCCGGACAGATTGGATTTGGAAGCGGAAAGGACGACAACCGGGAGTGGCGGGTCCCTA
 CGGAGGGGGAAGCGGCGGATCTTACGGCGGTGGGAGCGGCGGAGCTATGGTGGTGGGAGTGGCGGATCC
 TACGGAGGAGGATCTGGGGTAGCTACGGTGGAGGTAGTGGGGATCTCACGGCGGTAAGTGGTGGAA
 GTCACGGAGGAGGTTCCGGCGGTAGTTATGGAGGAGAGAGTGGTGGCTCTCACGGCGGAGGGTCCGGAGG
 ATCTTACGGAGGGGGTCCGGTGGCAGCCAGGAGGCAAGAGCGGCGGTGGATACGGAGGTGGAAGCAGC
 TCCGGGGGGGGAGCGGGGGCAGCTACGGCGGCGGATCAGGAGGCTCCACGGTGGCGGGAGTGGCGGTT
 CATATGGCGGTGGGTGAGGGAAGCCATGGAGGAAAACTGGTGGCGGCTACGGAGGAGGCAGCTCCAG
 CGGGGGAGGTTACGGCGGCTCCTATGGAGGAGGCTGGAGGTCACACGGCGGGAAGTCCGGAGGAAGC
 TACGGGGTGGATCTGGTGTAGCTACGGAGGCGGCTCTGGTGGTAGTCACGGCGGAAAGAGCGGCGGCG
 GATATGGCGGCGCAGCTCCTCCGGAGGCGGCTGGAGGCTCATACGGGGAGGGAGCGGCGGTCACA
 CGGCGGGAAGTCTGGGGGAAGCTACGGCGGGGTTCCAGTTCCGGAGGCGGTCAGGCGGTAGTTACGGG
 GGAGGCAGTGGCTCTGGCGGAGGATCAGGCGGATCTTACGGTGGAGGGAACCGACGCCAAAGCCAATCCC
 AGTCAAGCAGCAATCCGCAGACTGTGACGACGACTCTCAGGAGCACAAGATGCGGTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR216510 representing NM_201255
 Red=Cloning site Green=Tags(s)

MSCRQSSSSFWSSSSSCGGGGRRGGSGGSMRSSFSRSSRAGGGGGGRFNSSSGFSGGGFSACGGGGGSF
 GSSYGGGYGGGFSTGSYSGMFGGGSGGGFGGGSGGGFGGGSGGGEGGILNTNEKIVMQNLNS
 RLASYMEKVLLEESNTAMEKQIQDWYSKRGPVFKQDNTHYYDTIEDLKDRIVDLTVRNNKTLVDIDNT
 RMTMDDFRVKLEMEQSLRQVVEGDINGLKKVLDLVMKSDLEILLDSLEDEKNALTKNHKEEMSQTGQ
 NDGDVNVVEINVAPSTDLTRVLNDMREEYQLISKNRQDIEQHYESKMTQIEQQMTNSGQEMESNMKQVSQ
 LQHTIQELNVELQTQLTTKSALEKALEDTKNRYCGQLQQIQEQISELEAQLAEIRAEETECQSQEYILLS
 IKTRLEKEIETYRELLEGGQDFESSGAGQIGFGSGKGRQRGSGGSYGGGSGGSYGGGSGGSYGGGSGGS
 YGGGSGGSYGGGSGGSHGKSGGSHGGGSGGSYGGESGGSHGGGSGGSYGGGSGGSHGKSGGGYGGSS
 SGGGSGGSYGGGSGGSHGGGSGGSYGGGSGGSHGKSGGGYGGSSSGGGSGGSYGGGSGGSHGKSGGS
 YGGGSGGSYGGGSGGSHGKSGGGYGGSSSGGGSGGSYGGGSGGSHGKSGGSYGGGSSSGGGSGGSY
 GSGSGGSGGSYGGGNRRPSQSQSSSKSADCCDDSQEHKMRV

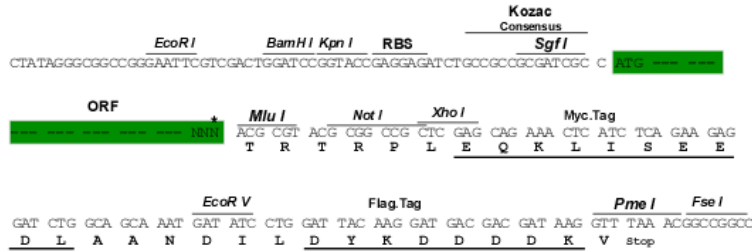
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

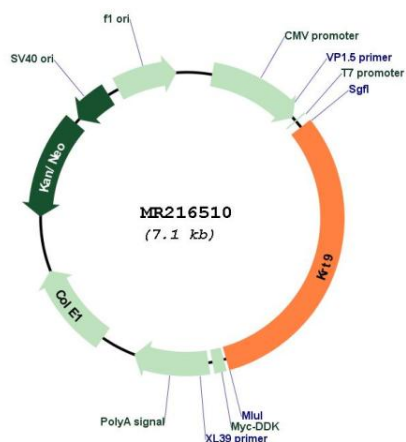
Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN:	NM_201255
ORF Size:	2229 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_201255.2 , NP_957707.2
RefSeq Size:	2580 bp
RefSeq ORF:	2232 bp
Locus ID:	107656
UniProt ID:	Q6RHW0
Cytogenetics:	11 D
MW:	72.5 kDa
Gene Summary:	May serve an important special function either in the mature palmar and plantar skin tissue or in the morphogenetic program of the formation of these tissues. Plays a role in keratin filament assembly (By similarity). Plays an essential role in the correct development of sperm. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR216510