

Product datasheet for **MG216510**

Krt9 (NM_201255) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Krt9 (NM_201255) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Krt9
Synonyms:	EPPK; K9; Krt1-9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG216510 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

ATGCTTGGCCAGAGTAGTTCATCTTTTGGTCTTCTCTAGTAGCTGTGGGGCGGAGGCGGTAGAG
 GTGGATCTGGAGGTCATGAGGAGCAGCTTCAGCAGAAGCAGTAGAGCGGGAGGGGGCGGCGGAGGCAG
 GTTTAATAGTTCAAGTGGCTTTAGTGGGGTGGCTTCTCAGCCTCGGGGGTGGGGAGGTGGTCTTT
 GGGAGCTCTACGAGGGGGTATGGCGCGGTTCTCTACCGGCAGTTACAGCGCATGTTCCGGGGAG
 GGTCCGGCGGGGCTTCGGGGAGGGAGTGGAGCGGGTTCGGTGGAGGCAGCGGAGGTGGCTTTGGAGG
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 GACACAGATCGAGCAGCAGATGACCAACAGCGGCAGGAAATGGAATCTAATATGAAGCAGGTTAGCCAG
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 CGGGGGAGGTTACGGCGGCTCTATGGAGGAGGCTGGAGGTCACACGGCGGGAAGTCCGGAGGAAGC
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 GGAGGCAGTGGCTCTGGCGGAGGATCAGCGGATCTTACGGTGGAGGGAACCGACGCCAAAGCCAATCCC
 AGTCAAGCAGCAATCCGCAGACTGTGACGACACTCTCAGGAGCACAAGATGCGGTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG216510 representing NM_201255
 Red=Cloning site Green=Tags(s)

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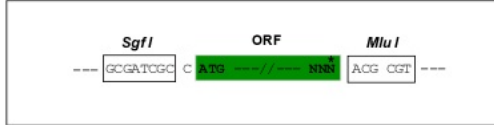
MSCRQSSSSFWSSSSSCGGGGGRGGSGGSMRSSFSRSSRAGGGGGGRFNSSSGFSGGGFSACGGGGGGSF
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LQHTIQELNVELQTQLTTKSALEKALEDTKNRYCGQLQQIQEQISELEAQLAEIRAETECQSQEYSILLS
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GGSGSGGSGGSYGGGNRRPSQSQSSSKSADCCDDSQEHKMRV
  
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:

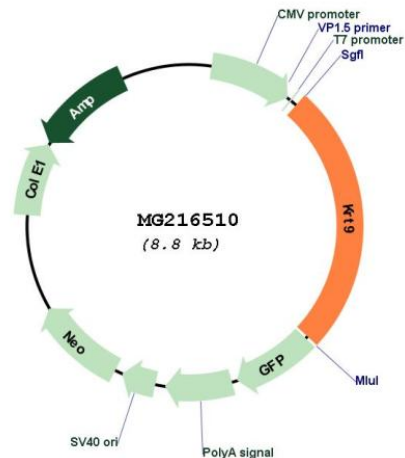


EcoRI *BamHI* *KpnI* *RBS* *Kozac Consensus* *SgfI* *AscI*
 CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGGCCAGATCT

HindIII *NheI* *RsrII* *MluI* *NotI* *XhoI* *GFP Tag*
 CAAGCTTAACTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---
 T R T R P L E M E S D - - -

PmeI *FseI*
 --- --- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT
 - - E E R V Stop

Plasmid Map:



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:

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

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]