

Product datasheet for **MR222651**

Krt10 (NM_010660) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Krt10 (NM_010660) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Krt10 |
| Synonyms: | D130054E02Rik; K1C1; K10; Krt-1.10; Krt1-10 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>MR222651 representing NM_010660
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGTCTATACAGCTCCAGCAGCAAGCAGTTCTCTTCTCCCGCAGTGAGGAGGAGCGGTGGTG
 GATCCGTAGGGTTCCAGCACCAGGGCTCTCTTGGTGGAGGGTATAGCTCAGGAGGCTTCAGCGGTGG
 CTCTTTTAGCCGTGGGAGCTCTGGGGGAGGTTGCTTTGGGGGCTCATCAGGTGGTTACGGAGTTTTGGA
 GGAGGAGCAGCTTTGGGGGAGGCTATGGAGGAAGCAGCTTTGGGGGAGGCTATGGAGGTAGCAGTTTTG
 GGGGTGGCAGCTTCGGTGGAGGTGGCAGCTTCGGTGGAGGCAGCTTTGGTGGCGGTAGCTATGGAGGAGG
 CTTTGGCGGTGGTGGATTCCGAGGAGATGGTGGCAGCCTTCTCTCCGAAACGAGAAGGTGACCATGCAG
 AACCTGAACGACCGCTGGCCTCTACATGGACAAAGTCCGGGCTCTGGAAGAGTCAAACACGAGCTGG
 AGGATAAATCAAGGAGTGGTACGAGAAGCATGGCAACTCAAGCCAGCGAGAGCCCCGGGACTACAGCAA
 ATACTACAAAACCATCGAGGACCTTAAGGGCAGATCCTCACCTGACAACGACAATGCCAACGTGCTG
 CTGAGATTGACAATGCCCGCTGGCAGCTGATGACTTCAGGCTGAAATACGAGAATGAGGTGACCCCTGC
 GCCAGAGCGTGGAGGCCGACATCAATGGCCTGCGCAGGGTACTGGATGAGCTGACCTTAGCAAGTCTGA
 CCTGGAATGCAGATCGAAAGTCTGAACGAAGAGCTGGCCTACCTAAAGAAGAACCACGAAGAGGAAATG
 AGAGACCTTCAAATGTGTCCACTGGTGTGTAATGTGGAATGAACGCTGCCCGAGGGTTGACCTGA
 CTCAGTCTGTAACAACATGAGAAACCAATACGAACAACCTGCAGAAAAGAAATCGCAAGGATGCTGAAGA
 GTGGTTCAATCAGAAGAGCAAGGAACTCACACAGAAATCGACAGCAACATTGAACAAATGTCCAGCCAT
 AAGTCTGAAATCACTGAATTGAGACGTAAGTTCAGGGTCTGGAGATTGAACTACAGTCCCAGCTGGCCC
 TGAACAAATCGTGGAAAGCTCCTTGGCAGAAACAGAAGGTCGCTACTGCGTGCAGCTCTCCAGATTCA
 AAGCCAGATCTCCGCCCTGGAGGAACAGCTGCAACAGATTCCGGGCTGAGACCGAGTGCCAGAACGCCGAG
 TACCAACAACCTTAGACATCAAGACCCGACTGGAGAACGAGATTGAGACCTACCGCAGCCTGCTAGAAG
 GAGAGGGAAGCTCCAGCGGTGGCGGCGGCGGACGCGGCGGCGGACGACGCGGCGGTAGCTACGGCGGAAG
 CTCCGGTGGCGGAAGCTACGGCGGAAGTCCGGCGGCGGCGGCGAGCTACGGCGGAAGTCCGGCGGCGG
 GGCAGCTACGGCGGCGGAAGCTCCGGGGCGGTAGCCACGGAGGCAGTTCGGTGGCGGCTACGGCGGCG
 GAAGTTCAGCGGTGGTGTGGTGTACGGCGGCGAGTTCGGTGGCGGCTACGGCGGCGGAAGTCCAG
 CGGAGGCCAGGGCGGAAGCGGAGGTTTCAAGTCTCCGGTGGCGGCGACCAATCATTAAGGACCAAGA
 TAC

ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR222651 representing NM_010660
 Red=Cloning site Green=Tags(s)

MSVLYSSSSKQFSSRSRGGGGGGSVRVSSTRGSLGGYSSGGFSGGSFSGSSGGGCFGGSSGGYGGF
 GGGFSGGGYGGSSFGGGYGGSSFGGGSFGGGSFSGGSFSGGSYGGGFGGGFGGDGSSLGNEKVTMQ
 NLNDRLASYMDKVRALLESNYELEGKIKEWYKHNSSQREPRDYSKYKTIEDLKQILTLTTDNANVL
 LQIDNARLAADDLKYENEVTLRQSVEADINLRRVLDLTLKSDLEMQIESLNEELAYLKNHEEEM
 RDLQNVSTGDVNVEMNAAPGVDLTQLLNMRNQYEQLAENRKAEEWFNQKSKELTTEIDSNIEQMSSH
 KSEITELRRTVQGLEIELQSQLALKQSLEASLAETEGRYCVQLSQIQSQISALEEQQIRAETECQNAE
 YQQLLDIKTRLENIQTYRSLLEGESSSGGGGGRGGSHGGSYGGSSGGGSYGGSSGGGSYGGSSGGG
 GSYGGSSGGSHGSSGGYGGSSSGGAGGHGSSGGYGGSSSGGQGGSGGFKSSGGDQSSKGP
 Y

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_010660

ORF Size: 1683 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

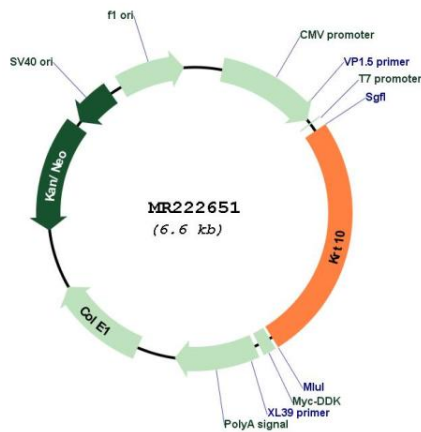
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_010660.2, NP_034790.2](#)
RefSeq Size: 2124 bp
RefSeq ORF: 1686 bp
Locus ID: 16661
UniProt ID: [P02535](#)
Cytogenetics: 11 62.92 cM
MW: 57 kDa
Gene Summary: Plays a role in the establishment of the epidermal barrier on plantar skin.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222651