

Product datasheet for MR224726

Krt34 (NM_027563) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Krt34 (NM_027563) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Krt34
Synonyms:	4733401E01Rik; Ha2; K34; Krt1-; Krt1-4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR224726 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCTGTGAGTCTTGCTGCCGCCCTGAGCTGCCGCACCAGCTGCTCCTCCCGGCCCTGCGTGCCCC
CCAGCTGCCATGGCTGCACCCTGCCCGGGCTGCAACATCCCCGCAATGTGGGCAACTGCAATTGGTT
CTGTGAGGGCTCCTTCAATGGCAATGAGAAGGAGACCATGCAGTTCCTGAATGACCGCTGGCCTCCTAT
ATGGAGAAGGTGAGGCAGCTGGAGAGAGAATGCAGAGCTGGAATGTAGGATCCAGGAGAGGAACCAGC
AGCAGGACCCCTGGTGTGTCCTACCAGGCTACTTCAGGACCATGAGGAGCTGCAGCAGAAGAT
TCTGTGTGCTAAGTCTGAGAACGCCAGGCTGGTGTGTCAGATCGACAATGCCAAGCTGGCCTCTGATGAC
TTCAGGACCAAGTACCAGACTGAGCTGTCCATGAGGCAGCTGGTGGAGGCTGACATCAACAGCCTGCGCA
GGATCCTGGATGAGCTGACCCTCTGCAAGTCTGACTTGGAGGCTCAGGTGGAGTCTCTGAGGGAGGAGCT
GCTGTGCCCTAAGAAGAACCACGAGGAGGAAGTCAACACCCTGCGCTGCCAGCTTGGAGACCCCTCAAC
GTGGAGGTGGACGCTGCTCCACCGTGGACCTGAACCGAGTGTCAACGAGACCAAGTGTAGTACGAGG
CCCTGGTGGAAACCAACCGCCGGAAGTGGAGGAATGGTTCACCACACAGTCAGAGGAGCTGAACAAGCA
GGTGGTGTCCAGCTCAGAGCAGCTACAGTCTGCCAGGCTGAGATCATCGAGCTAAGACGCACAGTCAAC
GCCCTGGAGATCGAGCTGCAGGCCAGCACTGCATGAGAACTCTGGAGAACACCCCTGACAGAGAGTG
AGGCTCGCTACAGCTCTCAGCTGTCCAGGTGCAGTGCCTGATCACCACAGTGGAGTCTCAGCTTGGTGA
GATCCGGGCTGACCTGGAGCGTCAAGACAGGAGTACCAGGTGCTGCTGGATGTCCGGGCCAGGCTGGAG
TGTGAGATCAACACGTACAGGAGCTGCTGGAGAGCGAGGACTGCAACCTCCCCTGCAACCCATGCGCCA
CCACCAATGCTAGTGGCAGTTGCTGTGGACCTTGGCCAGCTCAAAGCGTTGCTGT

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR224726 protein sequence
Red=Cloning site Green=Tags(s)

MSCESCLPALSCRTSCSSRPCVPPSCHGCTLPGACNIPANVGNCNWFCEGSFNGNEKETMQFLNDRLAS
 MEKVRQLERENAELECRIQERNQQDPLVCPAYQAYFRTIEELQKILCAKSENARLVVQIDNAKLASDD
 FRTKYQTELSMRQLVEADINSLRRILDELTLCKSDLEAQVESLREELLCLKKNHEEEVNTLRCQLGDRLN
 VEYDAAPTVDLNRVLNETRCQYEALVETNRREVEEWF^{*}TQSEELNKQVVSSEQLQSCQAEIIELRRTVN
 ALEIELQAQHCMRNSLENTL^{*}TESEARYSSQLSQVQLITNVESQLGEIRADLERQNEQVLLDVRARLE
 CEINTYRSLLESEDCNLPCNPCATTNASGCCGPGSSKRCC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_027563

ORF Size: 1179 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_027563.4](#), [NP_081839.1](#)

RefSeq Size: 1605 bp

RefSeq ORF: 1179 bp

Locus ID: 16672

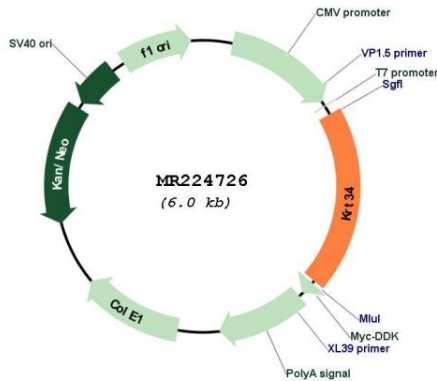
UniProt ID: [Q9D646](#)

Cytogenetics: 11 63.38 cM

MW: 44.6 kDa

Gene Summary: The protein encoded by this gene is a member of the keratin gene family. As a type I hair keratin, it is an acidic protein which heterodimerizes with type II keratins to form hair and nails. [provided by RefSeq, Sep 2015]

Product images:



Circular map for MR224726