

Product datasheet for **MR208780**

Krt6a (NM_008476) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Krt6a (NM_008476) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Krt6a |
| Synonyms: | 2310016L08Rik; Krt2-6a; Krt2-6c; MK6a; mK6[a] |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>MR208780 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCTACAAAACCACCATCAAAGTCAAACCAGCCACCGTGGCTACAGTGCCAGCTCAGCCAGAGTGC
 CTGGGCTCAACCGCTCTGGCTTCAGCAGTGTGTCCGTGTGCCGCTCCCGGGCAGCGGTGGCTCCAGTGC
 AATGTGTGGAGGAGCTGGCTTTGGCAGCAGGAGCCTCTATGGTGTGGGGAGCTCCAAGAGGATCTCCATC
 GGAGGGGGCAGCTGTGGCATTGGAGGAGGCTATGGCAGCCGATTTGGAGGAAGCTTCGGCATTGGAGGTG
 GAGCTGGTAGTGGCTTTGGCTTCGGTGGTGGAGCTGGCTTTGGTGGTGGCTATGGGGAGCTGGCTTCCC
 GGTGTGCCACCTGGAGGCATCCAAGAGGTCAACATCAACCAGAGCCTCCTCACACCCCTGAACCTGCAA
 ATTGACCCACCATCCAGCGGTGAGGACTGAGGAGAGGGAGCAGATCAAGACCCCTCAACAACAAGTTG
 CCTCCTTCATCGACAAGGTGCGTTCTGGAGCAGCAGAACAAGGTCTGGACACCAAGTGGGCCCTGCT
 GCAAGAGCAGGGCACCAAGACCGTGGAGCAGAACCTGGAGCCTATGTTTGGAGCAGTACATCAGCAACCTC
 CGCAGACAGCTGGACAGCATCATTGGAGAGAGGGGTGCCTGGACTCAGAGCTGAGGAACATGCAGGACA
 CAGTGGAGGACTACAAGAGCAAATATGAAGATGAAATCAACAAGCGCACAGCAGCAGAGAATGAATTCGT
 GACCTGAAGAAGGATGTAGATGCTGCCTACATGAACAAAGTTGAACTGCAAGCCAAGGCAGACAGTCTA
 ACAGATGATATCAACTTCTTGAGAGCTCTATGAAGCAGAAGTGTCTCAGATGCAAACTCACATCTCAG
 ACACATCTGTGGTCTCTCCATGGACAACAACCGTAGCCTGGACCTGGACAGCATCATCGCTGAGGTCAA
 GGCCAGTATGAGGACATTGCTCAGAGAAGTGGGCTGAAGCTGAGTCTGGTACCAGACTAAATATGAG
 GAGCTGCAGGTACAGCTGGCAGACATGGGACGACCTACGCAACACCAAGCAGGAGATTGCTGAGATCA
 ACCGCATGATCCAGAGGCTGAGATCTGAGATCGACCAGTTAAGAAGCAGTGTGCCAACCTGCAAGCTGC
 TATTGCTGATGCTGAGCAACGTGGGAGATGGCCCTGAAGGATGCCAGGGCAAGCTGGAAGGGCTGGAG
 GATGCCCTGCAGAAGGCCAAACAGGACATGGCCAGGCTGCTGAAGGAGTACCAGGAACTCATGAATGTCA
 AGCTGGCCCTGGATGTGGAAATTGCCACCTACAGGAAGCTGCTGGAAGGAGAGGAGTGCAGGTTGAATGG
 TGAAGGTGTTGGACAGTCAACATCTCTGTGGTGCAGTCCACCGTGTCCAGCGGCTATGGCAGTCCCGGG
 GGTGCCAGCAGCAGCTTAGGCCTGGTGGAGGCAGCAGCTACTCCTATAGCAGCAGCCATGGCCTTGGAG
 GTGGCTCAGTGTGGCAGTGGCAGAGCCATCGGAGGTGGCCTCAGCTCTTCTGGTGGCCTCAGCTCTTC
 TACCATCAAATACACCACCCTCTCCAGCAAGAAGAGCTACAGGCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208780 protein sequence
 Red=Cloning site Green=Tags(s)

MSTKTTIKSQTSHRGYSASSARVPGLNRSFSSVSVCRSRGSGGSSAMCGGAGFGRSLYGVSSKRISI
 GGGSCGIGGGYGSRFGGSFYGGGAGSGFSGGGAGFGGGYGGAGFPVCPGGIQEVTINQSLTPLNLQ
 IDPTIQRVREEREQIKTLNKFASFIDKVRFLQKQNKVLDTKWALLQEQTGKTVRQNLPEMFEQYISNL
 RRQLDSIIGERGLDSELNMQDTVEDYKSKYEDEINKRTAAENEFVTLKDVDAAYMKNVELQAKADSL
 TDDINFLRALYEAELSQQMTHISDTSVVLSDNNRSLDLSIIAEVKAQYEDIAQRSRAEASWYQTKYE
 ELQVTAGRHGDDL RNTKQEI AE INRMIQRLRSEIDHVKKQCANLQAAIADAEQRGEMALKDARGKLEGLE
 DALQKAKQDMARLLKEYQELMNVKLALDVEIATYRKLLEGEECRLNGEGVGPVNI SVVQSTVSSGYGSAG
 GASSSLGLGGSSYSYSSHGLGGFSAGSGRAIGGGLSSSGGLSSSTIKYTTTTSSSKSYRQ

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_008476

ORF Size: 1662 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_008476.3](#), [NP_032502.3](#)
RefSeq Size: 2287 bp

RefSeq ORF: 1662 bp

Locus ID: 16687

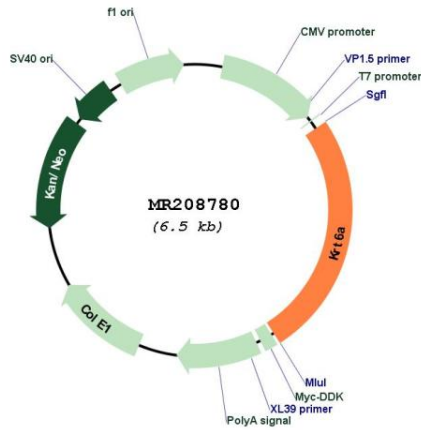
UniProt ID: [P50446](#)

Cytogenetics: 15 56.97 cM

MW: 59.3 kDa

Gene Summary: Epidermis-specific type I keratin involved in wound healing (PubMed:10866680). Involved in the activation of follicular keratinocytes after wounding, while it does not play a major role in keratinocyte proliferation or migration (PubMed:10866680). Participates in the regulation of epithelial migration by inhibiting the activity of SRC during wound repair (PubMed:22529101). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208780