

Product datasheet for **MR207124**

Krt25 (NM_133730) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Krt25 (NM_133730) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Krt25
Synonyms:	4631426H08Rik; Ka38; Krt25a; mIRSa1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR207124 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCCTCTTCGCTTTCCAGTGGATCCAGGAGTCTATGCTCGCCCCAGCACAGGGTCGCTCAGGGGAG
CCAGCTTCGGAGCTGAAATGCATGTGGCGTGGCAGGCATTGGAAGTGGCTTCTCCTGCGCCTTCGGGGG
CAGCTCCACAGGAGAAACACGGGGGTGGCCAACCTCCTGTGCTGGCTTCACTGTGAATGAGGGGGGCTC
CTCTCCGGCAATGAGAAGGTGACCATGCAGAACCTTAATGACCGCCTGGCCTCCTACCTGGACAACGTGC
AAGCGCTGCAGGAGGCCAACGCTGACCTGGAGCAGAAGATCAAGGGCTGGTATGAAAAATTTGGACCTGG
GTCGTGCCGGTCTCGATCATGACTACAGTAGATACTCCCCATCATTGATGATCTAAAAAACAGATC
ATCACCTCACCACCAGCAACGCCAACGCTGTACTGCAGATTGACAATGCCAGGCTCACGGCTGATGACT
TCAGACTCAAGTACGAAAACGAGCTGGCTCTCCACCAGAGCGTAGAGGCTGACGTCAACGGGCTGCGCAG
AGTTCTGGATGAAATCACCTGTGCCGACTGACCTGGAGATTCAGTACGAAACCCTGAGCGAGGAGCTG
ACCTATCTCAAGAAGAACCACAAAGAGGAAATGCAGGCTCTGCAGTGCGCCGCTGGAGGCAACGTGAACG
TGGAGATGAACGCAGCCCCGGGCGTGGACCTCACCGTCTGCTGAACAACATGAGAGCTGAGTATGAGGC
CCTGGCTGAGCAGAACCGCAGGGACGCTGAGGCCTGGTCCAAGAGAAGAGTGTTCGCTGCAGCAGCAG
ATCACCGAGGACGTGGGTGCCACCACCTCAGCCAGGAATGAGCTCACCGAAATGAAGCGAACGCTCCAAA
CCCTGGAGATTGAACTGCAGTCTCTCCTGGCCACGAAACTCTCTGGAGTGCTCCCTGACGGAGACCGA
GGGCAACTACTGCACGCAGCTGGCTCAGATCCAGGCTCAGATCAGCGCCTGGAGGAGCAGCTGCACCAG
GTGAGGACGGAGACCGAGGGCCAGAAGCTGGAATATGAGCAGCTGCTGAATGTCAAGGCCACCTGGAGA
AGGAGATCGAGACCTACTGCCTCCTCATAGGAGGAGATGAAGGGCCTGTAAAGTTCGAGTTACAAGT
TAAAGATTATGGATCTGGAACCGCCGAAACCAATCAAAGATCCAGTCAAAGCCATAGTGGTTAAGAAG
GTTCTAGAGGAGGTGGATCAGCGCAGCAAGATACTGACCACTAGGCTCCCTCCCTGGAAGAGAAATCTC
AAAGCAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207124 protein sequence
Red=Cloning site Green=Tags(s)

MSLRLSSGSRRSYARPSTGSLRGASFGAGNACGVAGIGSGFSCAFGGSSTGGNTGVANSCAGFTVNEGGL
LSGNEKVTMQNLNDRLASYLDNVQALQEANADLEQKIKGWYEFKPGGSCRGLDHDYSRYFPIIDDLKNQI
ITSTTSNANAVLQIDNARLTADDFRLKYENELALHQSVEADVNLRRVLDEITLCRTDLEIQYETLSEEL
TYLKNHKEEMQALQCAAGGNVNMNAAPGVDLTVLLNNMRAEYEAALAEQNRDAEAWFQEKASALQQQ
ITEDVGATTSARNELTEMKRTLQTLIELQSLLATKHSLECSL TETEGNYCTQLAQIQAQISALEEQLHQ
VRTETEGQKLEYEQLLNVKAHLEKEIETYCLLIGGDEGACKSSSYKSKDYGSGNAGNQIKDPVKAIYVKK
VLEEVDRSKILTTRLHSLEEKSSQN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:


ACCN: NM_133730

ORF Size: 1341 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_133730.2](#)
RefSeq Size: 1665 bp

RefSeq ORF: 1341 bp

Locus ID: 70810

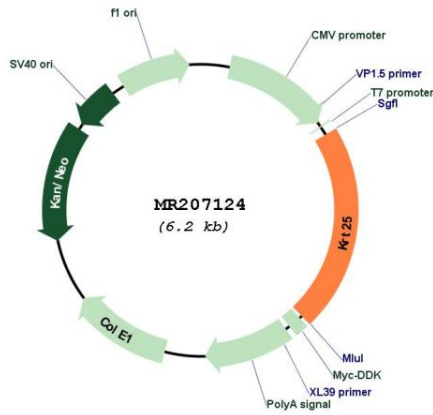
UniProt ID: [Q8VCW2](#)

Cytogenetics: 11 D

MW: 48.9 kDa

Gene Summary: Essential for the proper assembly of type I and type II keratin protein complexes and formation of keratin intermediate filaments in the inner root sheath (irs) (PubMed:14996088, PubMed:17920809). Plays a role in the cytoskeleton organization (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207124