

## Product datasheet for **RR212503**

### **Krt25 (NM\_001008822) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Krt25 (NM_001008822) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Krt25
Synonyms:	Ka38; Krt25A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR212503 representing NM\_001008822  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCCTCTTCGCCTCTCCAGTGGATCCAAGAGGTCTATGCTCGTCCCAGCACAGGATCGCTCAGGGGCG  
 CCAGCTTTGGTGCTGCAATGCTTGTGGCGTAGCAGGCATTGGAAGTGGCTTCTCCTGCGCCTTTGGGAG  
 CAGCTCCACAGGAGAAACACGGGTGTGGCCAACCTCTGTGCTGGCTTCACTGTGAATGAGGGGGCCCTC  
 CTCTCCGGCAATGAGAAGGTGACCATGCAGAACCTCAATGACCGCCTGGCCTCTACCTGGATAATGTAC  
 AAGCACTTCAGGAGGCCAACGCTGACCTGGAGCAGAAGATCAAGGGCTGGTATGAAAAATTTGGACCTGG  
 GTCATGCCGCGTCTCGATCATGACTACAGTAGATACTTCCCATCATTGATGATCTTAAAAACCAGATC  
 ATCACTTCCACCACCAGCAATGCCAATGCCGTTCTGCAGATTGACAATGCCAGGCTCACGGCTGATGACT  
 TCAGACTCAAGTACGAAAACGAGCTGGCCCTCCACCAGAGCGTAGAGGCTGACGTGAACGGGCTGCGCAG  
 GTTTCTGGATGAAATCACCTGTGCCGACTGACCTGGAGATTCAGTACGAAACCCTGAGTGAGGAACTG  
 ACTTACCTCAAGAAGAACCACAAAGAGGAAATGCAGGCTCTGCAGTGCAGCCGAGCGGAGGTAATGTGAATG  
 TGGAGATGAACGCAGCCCCGGCGTGGACCTCACCGTCTGCTGAACAACATGCGAGCCGAGTACGAGGC  
 CCTGGCTGAGCAGAACCGCAGGGACGCCGAGGCCTGGTCCAAGAGAAGAGCGCTTCGCTGCAGCAGCAG  
 ATCACCGAGGACGTGGGCGCCACCACCTCAGCCAGGAATGAGCTGACGGAAATGAAACGTACGCTCCAAA  
 CCTTGGAGATTGAACTACAGTCTCTCTGGCCACGAAACTCTCTGGAGTGCTCCCTGACGGAGACCGA  
 GGGCAACTACTGCACGCAGCTGGCTCAGATCCAGGCTCAGATCAGCGCCTGGAGGAGCAGCTGCACCAG  
 GTGAGGACGGAGACCGAGGGCCAGAAGCTGGAATATGAGCAGCTGCTGAACGTCAAGGCCACCTGGAGA  
 AGGAGATCGAGACCTACTGCCTCCTCATAGGAGGAGACGAGGGGCGCTGAAGTCTTCGAGTTACAAGT  
 TAAAGATTACACCTCTGAAACGCGGAAACCAAGCAAAGATTCCCCCAAAGCCATAGTGGTTAAGAAA  
 GTCCTAGAGGAGGTGACCAACGCAGCAAGATTCTAACCACTAGGCTCCACTCCCTGGAAGAGAAATCTC  
 AAAGCAAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR212503 representing NM\_001008822  
 Red=Cloning site Green=Tags(s)

MSLRSSGSKRSYARPSTGSLRGASFGAANACGVAGIGSGFSCAFGSSSTGGNTGVANSCAGFTVNEGGL  
 LSGNEKVTMQNLNDRLASYLQVQALQEANADLEQKIKGWYEFKPGSCRGLDHDYSRYFPIIDDLKNQI  
 ITSTTSNANAVLQIDNARLTADDFRLKYENELALHQSVEADVNLRRVLDEITLRTDLEIQYETLSEEL  
 TYLKNHKEEMQALQCAAGGNVNMNAAPGVDLTVLLNNMRAEYEAALAEQNRDAEAWFQEKASLQQQ  
 ITEDVGATTSARNELTEMKRTLQTLIELQSLLATKHSLECSL TETEGNYCTQLAQIQAQISALEEQLHQ  
 VRTETEGQKLEYEQLLNKHAHLEKEIETYCLLIGGDEGACKSSSYKSKDYTSGNAGNQSKDSPKAIYVKK  
 VLEEVDRSKILTTRLHSLEEKSSQN

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001008822

**ORF Size:** 1338 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\\_001008822.1](#), [NP\\_001008822.1](#)
**RefSeq Size:** 1341 bp

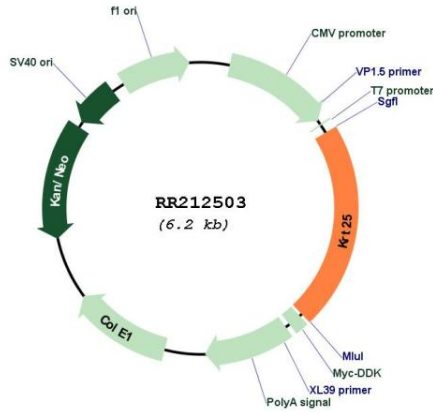
**RefSeq ORF:** 1341 bp

**Locus ID:** 303519

**UniProt ID:** [Q6IFX0](#)

**Cytogenetics:** 10q31  
**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) (By similarity). Plays a role in the cytoskeleton organization (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RR212503