

## Product datasheet for **MG207124**

### **Krt25 (NM\_133730) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Krt25 (NM_133730) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Krt25
Synonyms:	4631426H08Rik; Ka38; Krt25a; mIRSa1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG207124 representing NM\_133730  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCTCTTCGCCTTTCCAGTGGATCCAGGAGTCTATGCTCGCCCCAGCACAGGGTCGCTCAGGGGAG  
 CCAGCTTCGGAGCTGAAATGCATGTGGCGTGGCAGGCATTGGAAGTGGCTTCTCCTGCGCCTTCGGGGG  
 CAGCTCCACAGGAGGAAACACGGGGGTGGCCAACCTCCTGTGCTGGCTTCACTGTGAATGAGGGGGGGCTC  
 CTCTCCGGCAATGAGAAGGTGACCATGCAGAACCTTAATGACCGCCTGGCCTCCTACCTGGACAACGTGC  
 AAGCGCTGCAGGAGGCCAACGCTGACCTGGAGCAGAAGATCAAGGGCTGGTATGAAAAATTTGGACCTGG  
 GTCGTGCCGGTCTCGATCATGACTACAGTAGATACTTCCCATCATTGATGATCTAAAAAACCAGATC  
 ATCACCTCACCACCAGCAACGCCAACGCTGTACTGCAGATTGACAATGCCAGGCTCACGGCTGATGACT  
 TCAGACTCAAGTACGAAAACGAGCTGGCTCTCCACCAGAGCGTAGAGGCTGACGTCAACGGGCTGCGCAG  
 AGTTCTGGATGAAATCACCTGTGCCGACTGACCTGGAGATTCACTACGAAACCCTGAGCGAGGAGCTG  
 ACCTATCTCAAGAAGAACCACAAAGAGGAAATGCAGGCTCTGCAGTGCGCCGCTGGAGGCAACGTGAACG  
 TGGAGATGAACGCAGCCCCGGGCGTGGACCTCACCGTCTGCTGAACAACATGAGAGCTGAGTATGAGGC  
 CCTGGCTGAGCAGAACCGCAGGGACGCTGAGGCCTGGTCCAAGAGAAGAGTGTTCGCTGCAGCAGCAG  
 ATCACCGAGGACGTGGGTGCCACCACCTCAGCCAGGAATGAGCTCACCGAAATGAAGCGAACGCTCCAAA  
 CCCTGGAGATTGAACTGCAGTCTCTCCTGGCCACGAAACTCTCTGGAGTGCTCCCTGACGGAGACCGA  
 GGGCAACTACTGCACGCAGCTGGCTCAGATCCAGGCTCAGATCAGCGCCCTGGAGGAGCAGCTGCACCAG  
 GTGAGGACGGAGACCGAGGGCCAGAAGCTGGAATATGAGCAGCTGCTGAATGTCAAGGCCACCTGGAGA  
 AGGAGATCGAGACCTACTGCCTCCTCATAGGAGGAGATGAAGGGCCTGTAAGTCTTCGAGTTACAAGTC  
 TAAAGATTATGGATCTGAAACGCCGAAACCAATCAAAGATCCAGTCAAAGCCATAGTGGTTAAGAAG  
 GTTCTAGAGGAGGTGGATCAGCGCAGCAAGATACTGACCACTAGGCTCCACTCCCTGGAAGAGAAATCTC  
 AAAGCAAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG207124 representing NM\_133730  
 Red=Cloning site Green=Tags(s)

MSLRLSSGSRRSYARPSTGSLRGASFGAGNACGVAGIGSGFSCAFGGSSSTGGNTGVANSCAGFTVNEGGL  
 LSGNEKVTMQNLNDRLASYLQALQEANADLEQKIKGWYEFKPGGSCRGLDHDYSRYFPIIDDLKNQI  
 ITSTTSNANAVLQIDNARLTADDFRLKYENELALHQSV EADVNLRRVLDEITL CRTDLEIQYETLSEEL  
 TYLKNHKEEMQALQCAAGGNVNMNAAPGVDLTVLLNNMRAEYEA LAEQNRRDAEAWFQEK SASLQQQ  
 ITEDVGATTSARNELTEMKRTLQTL EIELQSL LATHKHSLECSL TETEGNYCTQLAQIQAQISALEEQLHQ  
 VRTETEGQKLEYEQLLNVKAHLEKEIETYCLLIGGDEGACKSSSYKSKDYSGNAGN QIKDPVKAI VVKK  
 VLEEVDQRSKILTTRLHSLEEKSSQN

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_133730

**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\\_133730.2](#)

**RefSeq Size:** 1665 bp

**RefSeq ORF:** 1341 bp

**Locus ID:** 70810

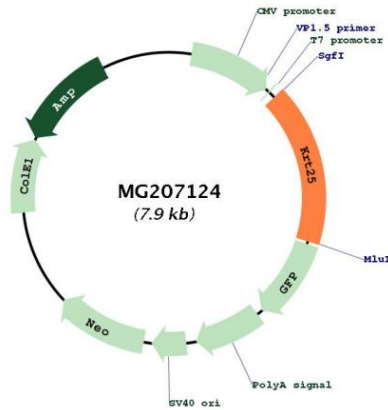
**UniProt ID:** [Q8VCW2](#)

**Cytogenetics:** 11 D

**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 MG207124