

Product datasheet for **MG221811**

Krt72 (NM_213728) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Krt72 (NM_213728) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Krt72
Synonyms:	A1507495; K6irs2; Krt2-35; Krt72-ps
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG221811 representing NM_213728
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGCCGCCAGTTGACCCTCTATCCCGAGCTGAGCGCCTGGGTTTCAGTGGTGCTCTCGCGTCACT
 CAGGCAGGCTCAGTGGCAGTCACGCCTCGGTCCGAGCTGGAGTCAAGGGAGCAGCATTTGGGAGCAGAAG
 CCTGTTCTGTGTGGGGGAGGCCGGCGGCTGGCGTTGAGCTCTGCAGGGCGAAGTGGTGGCTTCACGCTG
 GGCCACGGAGGGGCGAGCGGTGGCGGCCCTGGGGCTTCGTGGCACCGTCTTCGGCAGCGCGGACTGG
 GGCCACATGCCATCAGTGTGCCCTCCCGGTGGCATCCCCAGTTGTCGTCAACAAGAGCCTTCTGGC
 CCCACTCAATGTGGAGCTGGACCCGAGATCCAGAAGTGCAGGCAACAAGAGAGGGAGCAGATCAAGGT
 CTGAACAACAAGTTGCCTCCTTATTGACAAGTCCGCTTCTGGAGCAACAGAACCAGGTACTGGAGA
 CCAAGTGGGAGCTGCTGCAGCAGCTGGACCTAAACAACCAAGAGGAGCCTGGAGCCTGTGCATGAGAG
 TTACATCAGCAACCTGCAGAAGCAGCTGGAGATCCTGTCTGGGGATAGGGTGGAGCTGGACTCAGAGCTG
 AGGAACATGAGGGAAGTGGTGGAGGACTGCAAGAAGAGGTACGAGGTGGAGATTACAGAGCAGCGGCTG
 CCGAGAACGAGTTCGTGGTGTGAAGAAGGATGTGGACGAGCTTACATGAACAAGTGGAGCTCCAGGC
 CAAGGTGGACTCCTTGACAGATGACATCAAATCTTCAAGTTCTCTTTGAAGGGGAGATAGCTCAGATG
 CAGTCCCACATCAGCGACACATCCGTCACTCTCCATGGACAATAACCGGCAGCTGGACCTGGACAGCA
 TCCTCGCTGAGGTTGAGGCCAGTATGAGGAGATTGCTGTGAAGAGCAAGGCAGAGACGGAGAACATGTA
 CCAGTGTAAAGTCCAGGAGCTGCAGGCCACTGCAGGCCAACACGGGGATGACCTCAAACACACCAAGTCT
 GAGATCACAGAGATCAACAGGCTGATCCAGAGGATCCATTCAGAGATAGGAAACATGAAGAAGCAGTCT
 CCAACCTGGAGACGGCCATTGCTGACGCTGAACAGAGAGGTGACTGTGCTCTCAAGGATGCCCGGCCAA
 GCTGGACAGCTGGAGGGAGCCCTGCAGCAGGCCAAGGAGGAGCTGGCCGGATGCTGCTGAGCATCAG
 GAGCTCATGAATGTCAAGCTCGCCCTGGACATGGAGATCGCCACCTACAGGAAGTCTTGGAGAGCGAGG
 AGAGCCGGATGGCTGGTGAATACCCAAATCTGTGAGCATTTCTGTCAATAGCAGTACCAATGCAGGACC
 AGGAGGTGCTGGCTTCAAGTGTGGCTTTGGTGCCTCGAGCAGTTACAACATAGACCTCTGGCCCTGGAG
 GTGAAGACCAAGGATGCTGTGGCAGCGAGCTCAAGGATCCTCCGGCCAAAACCTCAGGCAGCAGCGGTA
 CAACCAAAAAGACCTCCAGA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG221811 representing NM_213728
 Red=Cloning site Green=Tags(s)

MSRQLTLYPGAERLGFSGCSAVISGRLSGSHASVRAGVKGAAFGSRSLFCVGGRRLLALSSAGRSGGFTL
 GHGGASGGRPGFVGTVFGSAGLPTCPSVCPGGIPQVVVNKSLAPLNVELDPEIQKVAQEREQIKA
 LNNKFASFIDKVRFLQEQNVLETKWELLQQLDLNNSKRSLEPVHESYISNLQKLEILSGDRVRLDSEL
 RNMREVVEDCKKRYEVEINRRTAAENEFVVLKDVDAAYMNVKVELQAKVDSLTDI KFFKVLFEGEIAQM
 QSHISDTSVILSMDNNRQLDLSILAEVRAQYEEIAVKSKAETENMYQCKIQELQATAGQHGDLDLKHKS
 EITEINRLIQRIHSEIGNMKKQCSNLETAIADAEQRGDCALKDARAKLDQLEGALQQAKEELARMLREHQ
 ELMNVKLALDMEIATYRKLLESEESRMAGEYPNSVISVISSTNAGPGGAGFSVGF GASSSYNRP LALE
 VKTKGSCGSELKDPKATSGSSGTTKTSR

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_213728

ORF Size: 1560 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_213728.2](#)

RefSeq Size: 1563 bp

RefSeq ORF: 1563 bp

Locus ID: 105866

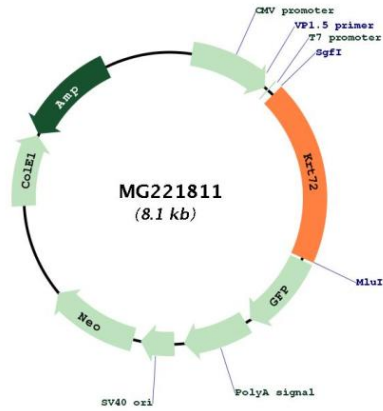
UniProt ID: [Q6IME9](#)

Cytogenetics: 15 F2

Gene Summary:

Has a role in hair formation. Specific component of keratin intermediate filaments in the inner root sheath (IRS) of the hair follicle (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG221811