

Product datasheet for **RG216910**

KRT72 (NM_080747) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KRT72 (NM_080747) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KRT72
Synonyms:	CK-72; K6irs; K6IRS2; K72; KRT6; KRT6IRS2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG216910 representing NM_080747
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGCCGCCAACTGACCCATTTCCCCCGGGGAGCGCTGGGTTTTCAGCGGTTGCTCCGCGGTCTCT
 CTGGCGGGATCGGCAGCAGCTCCGCCTCATTCCGGGCCCGGGTCAAGGGCTCGGCCTCCTTTGGCAGCAA
 GAGCCTCTCCTGCCTTGGGGGCAGCCGAAGCCTGGCGCTCAGCGCTGCTGCACGGCGGGCGCGGCCGC
 CTGGGCGGCTTCTGGGGCACCCTTCGGCAGCGCCGGGCTGGGGCCAAAGTGTCCCTCCGTGTGCCAC
 CCGGGGGCATCCCTCAGGTCAACGCAACAAGAGCCTCCTGGCCCGCTCAACGTGGAGATGGACCCCGA
 GATCCAGAGGGTGCAGCGCCAGGAGCGGGAGCAGATCAAGGCGCTAAACAACAAGTTGCGCTCCTTCATC
 GACAAGGTGCGGTTCTGGAGCAGCAGAATCAGGTGCTAGAGACCAAGTGAACCTCCTACAGCAGCTGG
 ACTTGAACAACCTGCAGGAAGAACCTGGAGCCATTTATGAGGGCTACATCAGCAACCTGCAGAAGCAGCT
 GGAGATGCTGTCTGGGGACGGGGTGGAGCTGGATTCGGAGCTGAGGAACATGCAGGATTTGGTGGAGGAC
 TACAAGAAGAGGTATGAGGTGGAGATTAACAGACGCACAGCTGCTGAGAAATGAGTTTGTGGTGTCAAGA
 AGGACGTGGATGCTGCTTACATGAATAAGTTGAGCTCCAGGCCAAGGTGGACTCCTTGACAGATGAGAT
 TAAATTCTTCAAGTGCCTTTATGAAGGGGAGATCACTCAGATCCAGTCCCACATCAGCGACACGTCCATC
 GTCCTGTCAATGGACAACAACCGGGATCTGGACCTGGACAGCATCATTGCCGAGGTCCGTGCCCAGTACG
 AGGAGATTGCCCTAAAGAGCAAGGCCGAGGCTGAGACCTGTACCAGACCAAGATCCAGGAGCTGCAGGT
 CACAGCAGGCCAGCATGGGGATGACCTCAAGCTCACCAAGGCTGAAATCTCTGAGCTCAACCGCCTGATC
 CAGAGGATCCGCTCAGAGATAGGGAATGTGAAGAAGCAGTGTGCCGATCTGGAGACGGCCATCGCCGACG
 CTGAACAGCGGGGGGACTGCGCCCTGAAAGATGCCCGGGCCAAGCTGGATGAGCTGGAGGGCGCCCTG
 CCAGGCCAAGGAGGAGCTGGCACGGATGCTGCGTGAGTACCAGGAGCTCGTGAGCCTGAAGCTGGCCCTG
 GATATGGAGATCGCCACCTACCGCAAGCTGCTGGAGAGCGAGGAGTGCAGGATGTCTGGCAATATCCAA
 ATTCTGTGAGCATCTCCGTATCAGCAGCACCAATGCTGGGGCAGGAGGGGCTGGCTTACAGCATGGGCTT
 TGGCGCTCAAGCAGTTATAGCTACAAAACCTGCAGCTGCAGACGTCAAGACCAAAGGCAGCTGTGGCAGT
 GAGCTCAAGGATCCCCTTGCCAAAACCTCGGGGAGCAGCTGTGCCACAAAAGGCCTCCAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG216910 representing NM_080747
 Red=Cloning site Green=Tags(s)

MSRQLTHFPRGERLGFSGCSAVLSGGIGSSSASFRARVKGSASFSGSKLSCLGGSRLALSAAARRGGGR
 LGGFVGTAFGSAGLGPCKPSVCPGGIPQVTVNKSLAPLNVEMDPEIQRVRAQEREQIKALNNKFASFI
 DKVRFLEQQNQVLETKWNLLQQLDLNCRKNLEPIYEGYISNLQKQLEMLSGDGVRLDSELRNMQDLVED
 YKKRYEVEINRRTAAENEFVVLKKDVAAYMNKVELQAKVDSLDEIKFFKCLYEGETIQIQSHISDTSI
 VLSMDNRRDLDSIIAEVRAQYEEIALKSKAEATLYQTKIQELQVTAGQHGDLLKTKAEISELNRLI
 QRIRSEIGNVKKQCADLETAIADAEQRGDCALKDARAKLDELEGALHQAKEELARMLREYQELVSLKLAL
 DMEIATYRKLLESEECRMSGEYPNSVSISSISSTNAGAGGAGFSMGFGASSYSYKTAADVKTGKSCGS
 ELKDPLAKTSGSSCATKKASR

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:

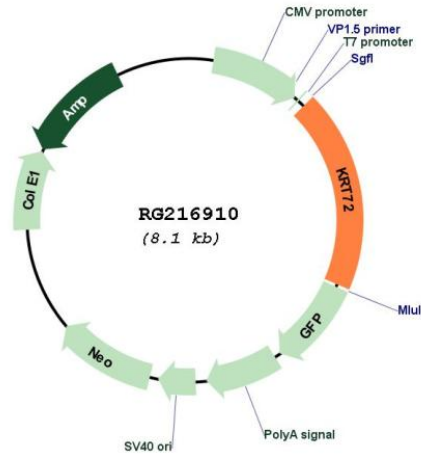


EcoRI *BamHI* *KpnI* *RBS* *Kozac Consensus* *SgfI* *AscI*
 CTATAGGGCGGCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGGCCAGATCT

HindIII *NheI* *RsrII* *MluI* *NotI* *XhoI* *GFP Tag*
 CAAGCTTAAGCTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC ---
 T R T R P L E M E S D - - -

PmeI *FseI*
 --- GAA GAA AGA GTT TAA ACGGCCGGCCGGAGCT
 - - E E R V Stop

Plasmid Map:



ACCN: NM_080747

ORF Size: 1533 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_080747.3](#)

RefSeq Size: 1985 bp

RefSeq ORF: 1536 bp

Locus ID: 140807

UniProt ID: [Q14CN4](#)

Cytogenetics: 12q13.13

Gene Summary: Keratins are intermediate filament proteins responsible for the structural integrity of epithelial cells. The type II keratins consist of basic or neutral proteins which are arranged in pairs of heterotypic keratin chains coexpressed during differentiation of simple and stratified epithelial tissues. This gene encodes a type II keratin that is specifically expressed in the inner root sheath of hair follicles. The type II keratins are clustered in a region of chromosome 12q12-q13. Multiple transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Jun 2009]