

Product datasheet for **RG218329**

KRT74 (NM_175053) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KRT74 (NM_175053) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KRT74
Synonyms:	ADWH; HTSS2; HYPT3; K6IRS4; KRT5C; KRT6IRS4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG218329 representing NM_175053
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGAGTCGGCAACTGAACATCAAGTCCAGTGGTGACAAGGGCAACTTCAGTGTGCATTTCGGCAGTGGTGC
 CAAGGAAGGCTGTGGGTAGCCTGGCTTCTTACTGTGCAGCTGGCAGAGGGGCTGGCGCTGGCTTTGGCAG
 TCGGAGCCTCTATAGCCTTGAGGGAATCGGCGTATTTCTTTCAATGTGGCTGGTGGCGCGTTCGGGCT
 GGAGGTTACGGCTTCAGGCCTGGCTCTGGGTATGGAGGGGGCCGGGCCAGTGGCTTTGCTGGCAGTATGT
 TTGGCAGTGTGGCCCTGGGGCTGCATGTTGTCTGTGTGCCACCTGGGGGCATCCACCAGTCACTGT
 CAACAAGAGCCTTTGGCCCCCTCAACGTGGAGCTGGACCCTGAGATCCAGAAGGTGCGCGCCAGGAG
 CGGAACAGATCAAGGTGCTGAACGACAAGTTCGCCTCCTTCATTGACAAGGTACGCTTCTAGAGCAGC
 AGAACCAGTTCTAGAAACCAAGTGGGAGCTGCTGCAGCAGCTGGACCTGAACAAGTGAAGAAGAACT
 GGAGCCATCCTTGAGGGCTACATCAGCAACCTGCGGAAGCAGCTGGAGACACTGTCTGGGGACAGGGTG
 AGGCTGGACTCGGAGCTGAGAAGCATGAGGGATCTGGTGGAGGACTATAAGAAGAGATATGAGGTGGAGA
 TTAACCGGCGCACAAACAGCAGAGAATGAGTTTGTGGTGTAAAGAAGGATGCAGATGCAGCCTACCGAGT
 CAAGGTGGAGCTTCAGGCCAAAGTGGACTCACTGGACAAAGACATCAAGTTCTCAAGTGTCTGTATGAT
 GCAGAGATCGCTCAGATCCAGACTCACGCCAGTGGACCTCTGTCTCCTGTCCATGGACAACAACCGGG
 ACCTGGACCTTGACAGCATCATCGCTGAGGTCCGCATGCATTATGAGGAGATCGCCCTGAAGAGCAAAGGC
 CGAGGCCGAGGCCCTGTACCAGACCAAGATCCAGGAGCTGCAGCTGGCAGCCAGTCCGGATGGTGGACGAC
 CTGAAACACACCAGGAGCGAGATGGTGGAGCTGAACCGGCTCATCCAGAGGATCCGGTGTGAGATCGGGA
 ATGTGAAGAAGCAGCGTCCAGCCTGGAGACGGCCATCGCTGACGCTGAGCAGCGGGGAGACAATGCCCT
 GAAGGATGCCAGGCCAAGCTGGATGAGCTGGAGGGCGCCCTGCACCAGGCCAAGGAGGAGCTGGCGCGG
 ATGCTGCGCAGTACCAGGAGCTCATGAGCCTGAAACTGGCCCTGGACATGGAGATTGCCACCTACCGCA
 AGCTGCTGGAGGGCGAGGAGTGCAGGATGTCTGGTGAAGATCCATCCTCTGTGAGCATCTGTCTCATCAG
 CAGTAGCAGCTACAGCTACCACCACCCAGCTCTGCGGGTGTGACCTTGGGGCCAGCGCTGTGGCAGGC
 AGCTCTGGCAGCACCCAGAGCGGGCAGACCAAGACCACAGAGGCGGAGGGGGAGACCTCAAGGACACCC
 AGGGCAAGAGCACCCAGCCAGCATCCCAGCAAGGAAAGCCACCCGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG218329 representing NM_175053
 Red=Cloning site Green=Tags(s)

MSRQLNIKSSGDKGNFSVHSAVPRKAVGSLASYCAAGRGAGAGFGSRSLSLGGNRRISFNVAGGGVRA
 GGYGFRPGSGYGGGRASGFAGSMFVSVALGPACLSVCPPGGIHQVTVNKSLLAPLNVELDPEIQKVRQAE
 REQIKVLNDKFAFIDKVRFLQEQNVLETKWELLQQLDLNNCKKNLEPILEGYISNLRKQLETLSGDRV
 RLDSELRSMRDLVEDYKKRYEVEINRRTTAENEFVVLKKDADAAYAVKVELQAKVDSLKDIDKFLKCLYD
 AEIAQIQTHASETSVILSMDNRRDLDLDSIIAEVRMHYEEIALKSKAEAEALYQTKIQELQLAASRHGDD
 LKHTRSEMVELNRLIQRIRCEIGNVKKQASLETAIADAEQRGDNALKDAQAKLDELEGALHQAKEELAR
 MLREYQELMSLKLALDMEIATYRKLLEGEECRMSGENPSSVSISVSSSSYSYHHPSSAGVDLGASAVAG
 SSGSTQSQTKTTEARGDLKDTQGKSTPASPARKATR

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_175053

ORF Size: 1587 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_175053.2](#), [NP_778223.1](#)

RefSeq Size: 2856 bp

RefSeq ORF: 1590 bp

Locus ID: 121391

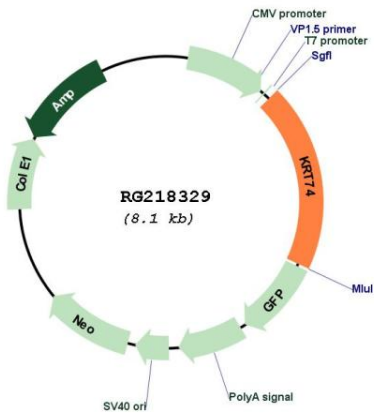
UniProt ID: [Q7RTS7](#)

Cytogenetics: 12q13.13

Gene Summary:

Keratins are intermediate filament proteins responsible for the structural integrity of epithelial cells and are subdivided into epithelial keratins and hair keratins. This protein belongs to a family of keratins that are specifically expressed in the inner root sheath of hair follicles.[provided by RefSeq, Jun 2009]

Product images:



Circular map for RG218329