

## Product datasheet for **RG222676**

### **KRTHA2 (KRT32) (NM\_002278) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	KRTHA2 (KRT32) (NM_002278) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KRTHA2
Synonyms:	HA2; hHa2; HKA2; KRTHA2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG222676 representing NM\_002278  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGACATCCTCCTGCTGTGTACCAACAACCTTGAAGCCTCTCTCAAGAGCTGCCCCGGCCTGCCTCGG  
 TCTGTTCCAGCGCGTGAAGTGCAGCCTGAGCTGTGCCTGGGCTATGTCTGCCAGCCCATGGCATGCCT  
 GCCTTCGGTCTGCCTGCCACCACTTCCGGCCAGCCAGCTGCCTCTCCAAAACCTATCTATCCAGTTCC  
 TGCCAGGCAGCCAGTGGCATCTCCGGCTCCATGGGCCCGGCAGCTGGTACAGCGAAGGGCCTTCAATG  
 GCAATGAGAAGGAAACCATGCAGTTCCTTAACGACCGCCTGGCCAGCTACCTGACGAGGGTGCAGCAGT  
 GGAGCAGGAGAATGCGGAGCTGGAGAGCAGGATCCAAGAGGCCTCTCACTCCAGGTGCTCACCATGACT  
 CCTGACTACCAGTCTATTTAGGACATTGAGGAGCTCCAGCAGAAGATTCTGTGTACCAAGGCAGAGA  
 ATGCCAGGATGGTTGTGAACATTGATAATGCCAACTGGCTGCCGATGACTTCAGGGCCAAGTACGAGGC  
 AGAGCTGGCCATGCGGCAGCTGGTGGAGGCCGACATCAATGGCCTGCGCAGGATCCTGGATGATCTCACT  
 CTGTGCAAGGCTGACCTGGAGGCCAGGTTGAGTCCCTGAAGGAGGAGCTGATGTGCCTCAAAAAGAACC  
 ATGAGGAGGAAGTCGGTTCCTTCGATGCCAGCTTGGGGACCGCCTTAACATCGAGGTGGACGCTGCACC  
 CCCGGTGGACCTGACCAGGGTGTGGAGGAGATGCGGTGTGAGTACGAGGCCATGGTGGAGGCCAACCGC  
 AGGGACGTGGAGGAATGGTTCAATATGCAGATGGAGGAGCTTAACCAACAGGTGGCCACAAGCTCTGAGC  
 AGCTTCAGAACTACCAGTCAAGCATATTGACCTGAGACGCACGGTCAACACGCTGGAGATCGAGCTGCA  
 GGCCACAGCAGCCTGAGGGACTCCCTGGAAAACACGCTGACGGAGAGTGGAGCCCGCTACAGCTCCAG  
 CTGGCCAGATGCAGTGCATGATACCAACGTTGAGGCCAGCTGGCTGAGATCCGGGCTGACCTGGAGC  
 GGCAGAACCAGGAGTACCAGGTGCTGTGGACGTCGGGCCCGGCTGGAGGGCGAGATCAACACGTACCG  
 GAGCCTGCTGGAGAGCGAGGACTGCAAGCTGCCCTGTAACCCATGCTCCACTCCTTCCTGCACCACCTGT  
 GTGCCCTCCCATGCGTGACCCGACCGTCTGTGTGCCACGCACTGTTGGCATGCCTTGCTACCCTGCC  
 CCCAGGGCCGCTAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG222676 representing NM\_002278  
 Red=Cloning site Green=Tags(s)

MTSSCCVTNNLQASLKSCRPAASVCSGGVNCRPELCLGYVCQPMACLPVCLPTTFRPASCLSKTYLSSS  
 CQAASGISGSMGPGSWYSEGAFFNGNEKETMQLNDRLASYLTRVQRLEQENAELESRIQEASHSQVLTMT  
 PDYQSHFRTIEELQKILCTKAENARMVNVNIDNAKLAADDFRAKYEAEAMRQLVEADINGLRRIILDDL  
 LCKADLEAQVESLKEELMCLKKNHEEEVGSRLRCQLGDRLNIEVDAAPPVDLTRVLEEMRCQYEAMVEANR  
 RDVEEWFNMQMEELNQVATSSQLQNYQSDIIDLRRTVNTLEIELQAQHSLRDSLENTL TESEARYSSQ  
 LAQMQCMITNVEAQLAEIRADLERQNYEQVLLDVRARLEGEINTYRSLLESEDCKLPCNPCSTPSCSTTC  
 VPSPCVTRTVCPRTVGMPCSPCPQGRY

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_002278

**ORF Size:** 1344 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\\_002278.2](#), [NP\\_002269.2](#)

**RefSeq Size:** 1708 bp

**RefSeq ORF:** 1347 bp

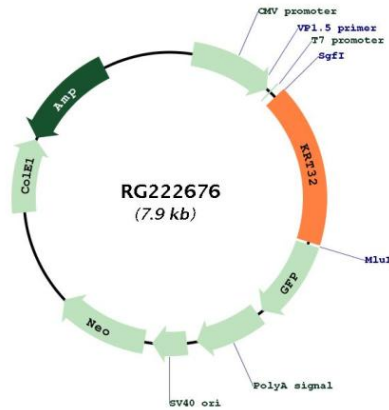
**Locus ID:** 3882

**UniProt ID:** [Q14532](#)

**Cytogenetics:** 17q21.2

**Gene Summary:**

The protein encoded by this gene is a member of the keratin gene family. As a type I hair keratin, it is an acidic protein which heterodimerizes with type II keratins to form hair and nails. The type I hair keratins are clustered in a region of chromosome 17q12-q21 and have the same direction of transcription. [provided by RefSeq, Jul 2008]

**Product images:**


Circular map for RG222676