

## Product datasheet for **RG205221**

### **KRT23 (NM\_015515) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	KRT23 (NM_015515) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KRT23
Synonyms:	CK23; HAIK1; K23
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205221 representing NM_015515 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAACCTCCGGACACAGCTTCAGCCAGACCCCCTCGGCCTCCTTCCATGGCGCCGGAGGTGGCTGGGGCC  
GGCCCAGGAGCTCCCCAGGGCTCCCACCGTCCATGGCGGTGCGGGGGAGCCCCGCATCTCCCTGTCCTT  
CACCACCGGAGCTGCCACCCCCTGGAGGGTCTTGGGGTTCTGGAAGAAGCAGCCCCCTACTAGGGGA  
AATGGGAAGGCCACCATGCAGAATCTCAACGACCGCTGGCCTCCTACGTGGAGAAGTTGCGCCCTGG  
AGGAGGCCAACATGAAGCTGAAAAGCCGCATCCTGAAATGGCACCAGCAGAGAGATCCTGGCAGTAAGAA  
AGATTATTCACAGTATGAGGAAAACATCACACACCTGCAGGAGCAGATAGTGGATGGTAAGATGACCAAT  
GCTCAGATTATTCTTCTCATTGACAATGCCAGGATGGCAGTGGATGACTTCAACCTCAAGTATGAAAATG  
AACACTCCTTTAAGAAAGACTTGAAAATGAAAGTCGAGGGCCTCCGAAGGACCTTAGACAACCTGACCAT  
TGTCACAACAGACCTAGAACAGGAGGTGGAAGGAATGAGGAAAGAGCTCATTCTCATGAAGAAGCACCAT  
GAGCAGGAAATGGAGAAGCATCATGTGCCAAGTGACTTCAATGTCAATGTGAAGTGGATACGGTCCCA  
GGGAAGATCTGATTAAGGTCCTGGAGGATATGAGACAAGAATATGAGCTTATAATAAAGAAGAAGCATCG  
AGACTTGGACACTTGGTATAAAGAACAGTCTGCAGCCATGTCCCAGGAGGCAGCCAGTCCAGCCACTGTG  
CAGAGCAGACAAGGTGACATCCACGAACCTGAAGCGCACATTCCAGGCCCTGGAGATTGACCTGCAGACAC  
AGTACAGCACGAAATCTGCTTTGGAAAACATGTTATCCGAGACCCAGTCTCGGTACTCCTGCAAGCTCCA  
GGACATGCAAGAGATCATCTCCACTATGAGGAGAACTGACGCAGCTACGCCATGAACTGGAGCGGCAG  
AACAAATGAATACCAAGTCTGCTGGGCATCAAAACCCACCTGGAGAAGGAAATCACCACGTACCGACGGC  
TCCTGGAGGGAGAGAGTGAAGGGACACGGGAAGAATCAAAGTCGAGCATGAAAGTGTGCAACTCCAAA  
GATCAAGGCCATAACCCAGGAGACCATCAACGGAAGATTAGTTCTTTGTCAAGTGAATGAAATCCAAAAG  
CACGCA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG205221 representing NM\_015515  
Red=Cloning site Green=Tags(s)

MNSGHSFSQTPSASFHGAGGGWGRPRSFPRAPTVHGGAGGARISLSFTTRSCPPPGGSWGSGRSSPLLGG  
 NGKATMQNLNDRLASVYKVRALAEANMKLESRLKWHQQRDPGSKKDYSQYEENITHLQEIVDGKMTN  
 AQIILLIDNARMAVDNFKYENEHSFKKDLIEVEGLRRTLDNLTIVTDLQEVEGMRKELILMKKHH  
 EQEMEKHHVPSDFNVNVKVDTPREDLIKVLEDMRQEYELI IKKKHRDLDTWYKEQSAAMSQEAASPATV  
 QSRQGDIEHLKRTFQALEIDLQTYSTKSALENMLSETQSRYSCKLQDMQEII SHYEEELTLRHELERQ  
 NNEYQVLLGIKTHLEKEITTYRRLLEGESEGTREESKSSMKVFATPKIKAITQETINGRLVLCQVNEIQK  
 HA

TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_015515

**ORF Size:** 1266 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\\_015515.2](#)

**RefSeq Size:** 2163 bp

**RefSeq ORF:** 1269 bp

**Locus ID:** 25984

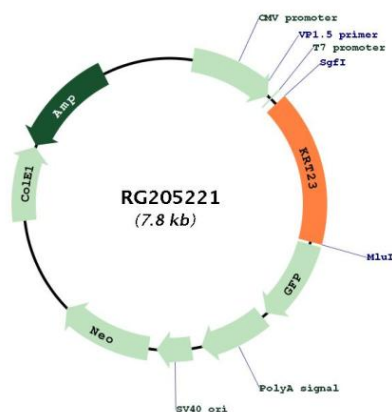
**UniProt ID:** [Q9C075](#)

**Cytogenetics:** 17q21.2

**Domains:** filament

**Gene Summary:** The protein encoded by this gene is a member of the keratin family. The keratins are intermediate filament proteins responsible for the structural integrity of epithelial cells and are subdivided into cytokeratins and hair keratins. The type I cytokeratins consist of acidic proteins which are arranged in pairs of heterotypic keratin chains. The type I cytokeratin genes are clustered in a region of chromosome 17q12-q21. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2013]

## Product images:



Circular map for RG205221