

## Product datasheet for **RG201179**

### **KRT13 (NM\_153490) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	KRT13 (NM_153490) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KRT13
Synonyms:	CK13; K13; WSN2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG201179 representing NM\_153490  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGCCTCCGCCTGCAGAGCTCCTCTGCCAGCTATGGAGGTGGTTTCGGGGGTGGCTCTTGCCAGCTGG  
 GAGGAGGCCGTGGTGTCTCTACCTGTTCAACTCGTTTTGTGTCTGGGGATCAGCTGGGGCTATGGAGG  
 CGGCGTGAGCTGTGGTTTTGGTGAGGGGCTGGTAGTGGCTTTGGAGGTGGCTATGGAGGTGGCCTTGGA  
 GGTGGCTATGGAGGTGGCCTTGAGGTGGCTTTGGTGGGGTTTTGCTGGTGGCTTTGTTGACTTTGGT  
 CTTGTGATGGCGCCTCCTCACTGGCAATGAGAAGATCACCATGCAGAACCTCAACGACCGCCTGGCTTC  
 CTACCTGGAGAAGGTGCGCGCCCTGGAGGAGGCCAACGCTGACCTGGAGGTGAAGATCCGTGACTGGCAC  
 CTGAAGCAGAGCCAGCTAGCCCTGAGCGGGACTACAGCCCTACTACAAGACCATTGAAGAGCTCCGGG  
 ACAAGATCCTGACCGCCACCATTGAAAACAACCGGGTCATCCTGGAGATTGACAATGCCAGGCTGGCTGT  
 GGACGACTTCAGGCTCAAGTATGAGAATGAGCTGGCCCTGCGCCAGAGCTGGAGGCCGACATCAACGGC  
 CTGCGCCGGGTGCTGGATGAGCTACTCTGTCTAAGACTGACCTGGAGATGCAGATCGAGAGCCTGAATG  
 AAGAGCTAGCCTACATGAAGAAGAACCATGAAGAGGAGATGAAGGAATTTAGCAACCAGGTGGTCCGCCA  
 GGTCAACGTGGAGATGGATGCCACCCAGGCATTGACCTGACCCGCTGCTGGCAGAGATGAGGGAGCAG  
 TACGAGGCCATGGCAGAGAGGAACCGCCGGATGCTGAGGAATGGTTCCACGCCAAGAGTGCAGAGCTGA  
 ACAAGGAGGTGTCTACCAACTGCCATGATTAGACCAGCAAGACAGAGATCACGGAGCTCAGGCGCAC  
 GCTCCAAGGCTGGAGATTGAGCTGCAGTCCCAGCTGAGCATGAAAGCGGGGCTGGAGAACCGTGGCA  
 GAGACGGAGTCCGCTATGCCCTGCAGTGCAGCAGATCCAGGGACTCATCAGCAGCATCGAGGCCACG  
 TGAGCGAGCTCCGAGTGAGATGGAGTCCAGAACCAAGAGTACAAGATGCTGCTGGACATCAAGACACG  
 TCTGGAGCAGGAGATCGCCACCTACCGCAGCTGCTCGAGGGCCAGGACGCCAAGATGATTGGTTCCCT  
 TCCTCAGCAGGAAGCGTACGCCCGTAGCACCTCTGTTACCACGACTTCTAGTGCCTCTGTTACCACCA  
 CCTCTAATGCCTCTGGTCCGCGCACTTCTGATGTCCTAGGCCT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG201179 representing NM\_153490  
 Red=Cloning site Green=Tags(s)

MSLRLQSSSASYGGGFGGSCQLGGGRVSTCSTRFVSGGSAGGYGGVSCGFGGGAGSGFGGGYGGGLG  
 GGYGGGLGGGFGGFAGGFVDFGACDGLL TGNEKITMQNLNDRLASYLEKVRAL E E ANADLEVKIRDWH  
 LKQSPASPERDYSPPYKIEELRDKILTATIENNRVILEIDNARLAVDDFRLKYENELALRQSVEADING  
 LRRVLDLTL SKTDLEMQIESLNEELAYMKNHEEEMKEFSNQVVGQVNVEMDATPGIDL TRVLAEMREQ  
 YEAMAERNRRDAEEWFHAKSAELNKEVSTNTAMIQTSKTEITELRRTLQGLEIELQSQLSMKAGLENTVA  
 ETECRYALQLQIQGLISSIEAQLSELRSEMECQNQEYKMLLDIKTRLEQEIATYRSLLEQDAKMIGFP  
 SSAGSVSPRSTSVTTTSSASVTTTSSASGRRTSDVRRP

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_153490

**ORF Size:** 1374 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\\_153490.1](#), [NP\\_705694.1](#)

**RefSeq Size:** 1719 bp

**RefSeq ORF:** 1377 bp

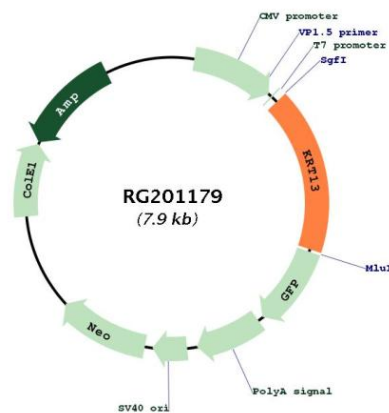
**Locus ID:** 3860

**UniProt ID:** [P13646](#)

**Cytogenetics:** 17q21.2

**Gene Summary:**

The protein encoded by this gene is a member of the keratin gene family. The keratins are intermediate filament proteins responsible for the structural integrity of epithelial cells and are subdivided into cytokeratins and hair keratins. Most of the type I cytokeratins consist of acidic proteins which are arranged in pairs of heterotypic keratin chains. This type I cytokeratin is paired with keratin 4 and expressed in the suprabasal layers of non-cornified stratified epithelia. Mutations in this gene and keratin 4 have been associated with the autosomal dominant disorder White Sponge Nevus. The type I cytokeratins are clustered in a region of chromosome 17q21.2. Alternative splicing of this gene results in multiple transcript variants; however, not all variants have been described. [provided by RefSeq, Jul 2008]

**Product images:**


Circular map for RG201179