

Product datasheet for **RC201179**

KRT13 (NM_153490) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KRT13 (NM_153490) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KRT13
Synonyms:	CK13; K13; WSN2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC201179 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCCTCCGCCTGCAGAGCTCCTCTGCCAGCTATGGAGGTGGTTTCGGGGGTGGCTCTTGCCAGCTGG
 GAGGAGGCCGTGGTGTCTCTACCTGTTCAACTCGGTTTGTGTCTGGGGATCAGCTGGGGCTATGGAGG
 CGGCGTGAGCTGTGGTTTTGGTGGAGGGCTGGTAGTGGCTTTGGAGGTGGCTATGGAGGTGGCCTTGA
 GGTGGCTATGGAGGTGGCCTTGGAGGTGGCTTTGGTGGGGTTTTGCTGGTGGCTTTGTTGACTTTGGT
 CTTGTGATGGCGCCTCCTCACTGGCAATGAGAAGATCACCATGCAGAACCTCAACGACCGCCTGGCTTC
 CTACCTGGAGAAGGTGCGCGCCCTGGAGGAGGCCAACGCTGACCTGGAGGTGAAGATCCGTGACTGGCAC
 CTGAAGCAGAGCCAGCTAGCCCTGAGCGGGACTACAGCCCTACTACAAGACCATTGAAGAGCTCCGGG
 ACAAGATCCTGACCGCCACCATTGAAAACAACCGGGTCATCCTGGAGATTGACAATGCCAGGCTGGCTGT
 GGACGACTTCAGGCTCAAGTATGAGAATGAGCTGGCCCTGCGCCAGAGCTGGAGGCCGACATCAACGGC
 CTGCGCCGGGTGCTGGATGAGCTACTCTGTCTAAGACTGACCTGGAGATGCAGATCGAGAGCCTGAATG
 AAGAGCTAGCCTACATGAAGAAGAACCATGAAGAGGAGATGAAGGAATTTAGCAACCAGGTGGTCGGCCA
 GGTCAACGTGGAGATGGATGCCACCCAGGCATTGACCTGACCCGCTGCTGGCAGAGATGAGGGAGCAG
 TACGAGGCCATGGCAGAGAGGAACCGCCGGATGCTGAGGAATGGTTCCACGCCAAGAGTGCAGAGCTGA
 ACAAGGAGGTGTCTACCAACTGCCATGATTGAGACCAGCAAGACAGAGATCACGGAGCTCAGGCGCAC
 GCTCCAAGGCTGGAGATTGAGCTGCAGTCCCAGCTGAGCATGAAAGCGGGGCTGGAGAACCGTGGCA
 GAGACGGAGTCCGCTATGCCCTGCAGTGCAGCAGATCCAGGGACTCATCAGCAGCATCGAGGCCACAG
 TGAGCGAGCTCCGAGTGGAGTGGAGTCCAGAACCAAGAGTACAAGATGCTGCTGGACATCAAGACAG
 TCTGGAGCAGGAGATCGCCACCTACCGCAGCTGCTCGAGGGCCAGGACGCCAAGATGATTGGTTCCCT
 TCCTCAGCAGGAAGCGTACGCCCGTAGCACCTCTGTTACCACGACTTCTAGTGCCTCTGTTACCACCA
 CCTCTAATGCCTCTGGTCCGCGCACTTCTGATGTCCTAGGCCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC201179 protein sequence
 Red=Cloning site Green=Tags(s)

MSLRLQSSSASYGGFGGGSCQLGGGRGVSTCSTRFVSGGSAGGYGGVSCGFGGGAGSGFGGYGGGLG
 GGYGGGLGGFGGFAGGFVDFGACDGLL TGNEKITMQNLNDRLASYLEKVRAL EEANADLEVKIRDWH
 LKQSPASPERDYSPYYKIEELRDKILTATIENNRVILEIDNARLAVDDFRLKYENELALRQSVEADING
 LRRVLDLTL SKTDLEMQIESLNEELAYMKNHEEEMKEFSNQVVGVNVEMDATPGIDL TRVLAEMREQ
 YEAMAERNRRDAEEWFHAKSAELNKEVSTNTAMIQT SKTEITELRRTLQGLEIELQSLSMKAGLENTVA
 ETECRYALQLQIQGLISSIEAQLSELRSEMECQNQEYKMLLDIKTRLEQEIATYRSLLEGQDAKMIGFP
 SSAGSVSPRSTSVTTTSSASVTTTSSASGRRTSDVRRP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

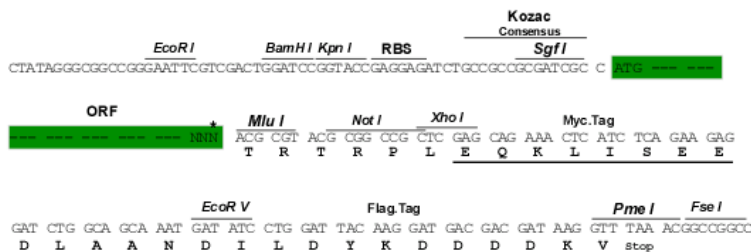
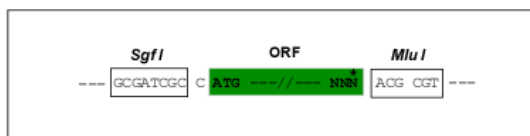
https://cdn.origene.com/chromatograms/mk6572_d06.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

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

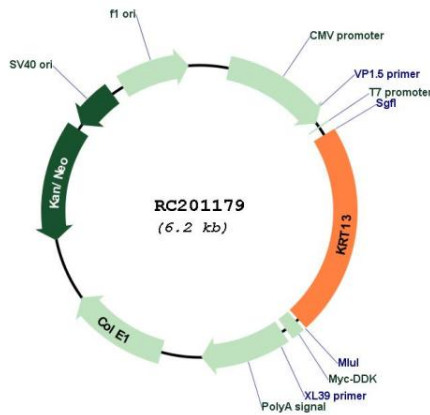
Locus ID: 3860

UniProt ID: [P13646](#)
Cytogenetics: 17q21.2

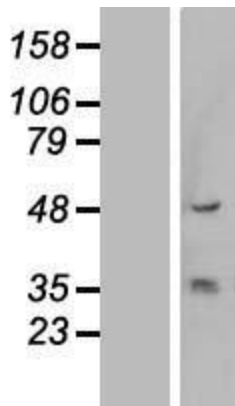
MW: 49.6 kDa

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]

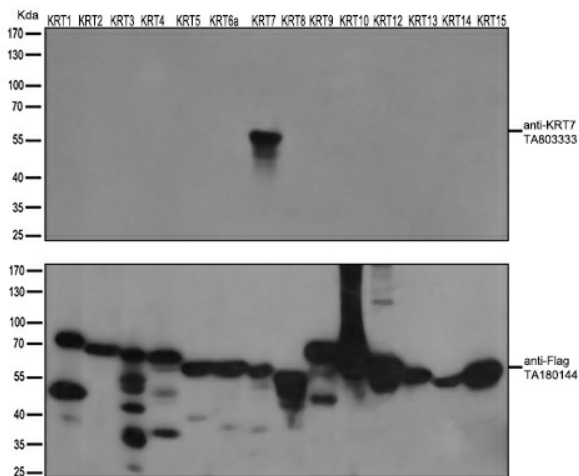
Product images:



Circular map for RC201179



Western blot validation of overexpression lysate (Cat# [LY407013]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201179 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



HEK293T cells were transfected with the overexpression plasmids of 14 KRT isoforms (from left to right:KRT1, Cat# [RC223146]; KRT2, Cat# [RC213030]; KRT3, Cat# [RC223011]; KRT4, Cat# [RC220350]; KRT5, Cat# [RC206870]; KRT6a, Cat# [RC204328]; KRT7, Cat# [RC201124]; KRT8, Cat# [RC209570];KRT9, Cat# [RC218091]; KRT10, Cat# [RC204500];KRT12, Cat# [RC224946];KRT13, Cat# RC201179;KRT14, Cat# [RC214907];KRT15, Cat# [RC201150]) for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-flag antibody (Cat# [TA180144], 1:1000) or anti-KRT7 mouse monoclonal antibody (Cat# [TA803333], 1:500).