OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC209707

Cytokeratin 19 (KRT19) (NM_002276) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cytokeratin 19 (KRT19) (NM_002276) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cytokeratin 19
Synonyms:	CK19; K1CS; K19
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC209707 representing NM_002276
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACTTCCTACAGCTATCGCCAGTCGTCGGCCACGTCGTCCTTCGGAGGCCTGGGCGGCGGCTCCGTGC
GTTTTGGGCCGGGGGTCGCTTTTCGCGCGCCCAGCATTCACGGGGGCTCCGGCGGCCGCGGCGTATCCGT
GTCCTCCGCCCGCTTTGTGTCCTCGTCCTCCTCGGGGGGCTACGGCGGCGGCTACGGCGGCGTCCTGACC
GCGTCCGACGGGCTGCTGGCGGGCAACGAGAAGCTAACCATGCAGAACCTCAACGACCGCCTGGCCTCCT
ACCTGGACAAGGTGCGCGCCCTGGAGGCGGCCAACGGCGAGCTAGAGGTGAAGATCCGCGACTGGTACCA
GAAGCAGGGGCCTGGGCCCTCCCGCGACTACAGCCACTACTACACGACCATCCAGGACCTGCGGGACAAG
ATTCTTGGTGCCACCATTGAGAACTCCAGGATTGTCCTGCAGATCGACAACGCCCGTCTGGCTGCAGATG
ACTTCCGAACCAAGTTTGAGACGGAACAGGCTCTGCGCATGAGCGTGGAGGCCGACATCAACGGCCTGCG
CAGGGTGCTGGATGAGCTGACCCTGGCCAGGACCGACCTGGAGATGCAGATCGAAGGCCTGAAGGAAGAG
CTGGCCTACCTGAAGAAGAACCATGAGGAGGAAATCAGTACGCTGAGGGGCCAAGTGGGAGGCCAGGTCA
GTGTGGAGGTGGATTCCGCTCCGGGCACCGATCTCGCCAAGATCCTGAGTGACATGCGAAGCCAATATGA
GGTCATGGCCGAGCAGAACCGGAAGGATGCTGAAGCCTGGTTCACCAGCCGGACTGAAGAATTGAACCGG
GAGGTCGCTGGCCACACGGAGCAGCTCCAGATGAGCAGGTCCGAGGTTACTGACCTGCGGCGCACCCTTC
AGGGTCTTGAGATTGAGCTGCAGTCACAGCTGAGCATGAAAGCTGCCTTGGAAGACACACTGGCAGAAAC
GGAGGCGCGCTTTGGAGCCCAGCTGGCGCATATCCAGGCGCTGATCAGCGGTATTGAAGCCCAGCTGGGC
GATGTGCGAGCTGATAGTGAGCGGCAGAATCAGGAGTACCAGCGGCTCATGGACATCAAGTCGCGGCTGG
AGCAGGAGATTGCCACCTACCGCAGCCTGCTCGAGGGACAGGAAGATCACTACAACAATTTGTCTGCCTC
CAAGGTCCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC209707 representing NM_002276
Red=Cloning site Green=Tags(s)

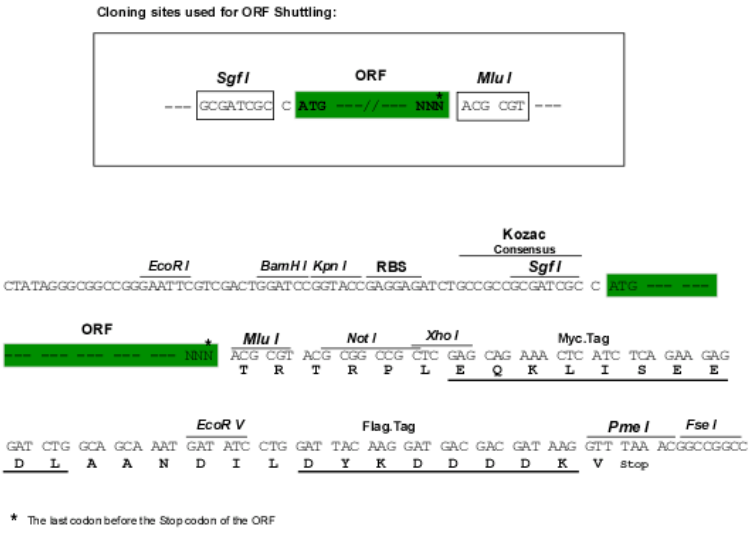
MTSYSYRQSSATSSFGGLGGGSVRFGPGVAFRAPSIHGGSGGRGVSVSSARFVSSSSSGGYGGGYGGVLT
ASDGLLAGNEKLTMQNLNDRLASYLDKVRALEAANGELEVKIRDWYQKQGPGPSRDYSHYYTTIQDLRDK
ILGATIENSRIVLQIDNARLAADDFRTKFETEQALRMSVEADINGLRRVLDELTLARTDLEMQIEGLKEE
LAYLKKNHEEEISTLRGQVGGQVSVEVDSAPGTDLAKILSDMRSQYEVMAEQNRKDAEAWFTSRTEELNR
EVAGHTEQLQMSRSEVTDLRRTLQGLEIELQSQLSMKAALEDTLAETEARFGAQLAHIQALISGIEAQLG
DVRADSERQNQEYQRLMDIKSRLEQEIATYRSLLEGQEDHYNNLSASKVL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6269_a09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002276

ORF Size: 1200 bp

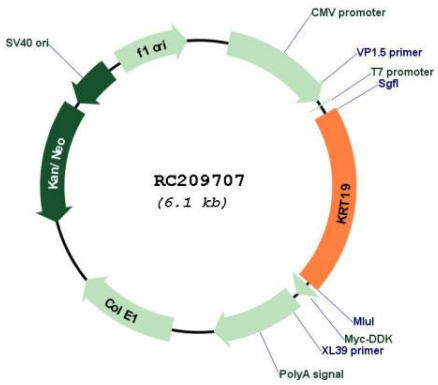
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

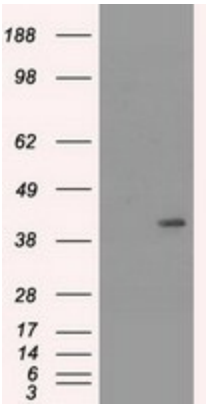
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_002276.5
RefSeq Size:	1490 bp
RefSeq ORF:	1203 bp
Locus ID:	3880
UniProt ID:	P08727
Cytogenetics:	17q21.2
Domains:	filament
MW:	43.9 kDa
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. Unlike its related family members, this smallest known acidic cytokeratin is not paired with a basic cytokeratin in epithelial cells. It is specifically expressed in the periderm, the transiently superficial layer that envelopes the developing epidermis. The type I cytokeratins are clustered in a region of chromosome 17q12-q21. [provided by RefSeq, Jul 2008]

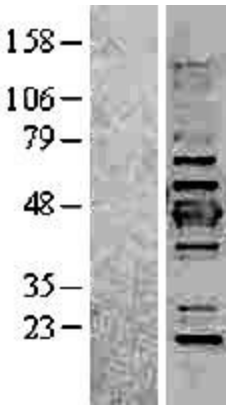
Product images:



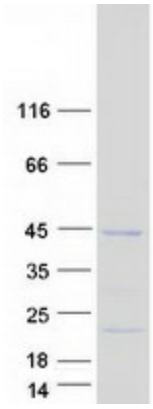
Circular map for RC209707



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY KRT19 (Cat# RC209707, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-KRT19(Cat# [TA500212]). Positive lysates [LY419428] (100ug) and [LC419428] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY419428]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209707 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified KRT19 protein (Cat# [TP309707]). The protein was produced from HEK293T cells transfected with KRT19 cDNA clone (Cat# RC209707) using MegaTran 2.0 (Cat# [TT210002]).