

Product datasheet for **RC213129**

Keratin 77 (KRT77) (NM_175078) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Keratin 77 (KRT77) (NM_175078) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Keratin 77
Synonyms:	K1B; KRT1B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC213129 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGAGCCACCAATTTAGTTCTCAGTCCGCTTTAGTTCAATGAGCAGGCGGGTTTATAGTACCAGCTCTT
 CTGCAGGCTCTGGTGGTGGGAGTCCGGCAGTGGGTTCTGTGTATTGCTCGAGGGAGGTGTGGTGGTGG
 TGGATATGGGATCCATGGAAGGGGTTTGGCTCTAGGAGCCTCTACAATCTGGGTGGCAGTAGAAGCATC
 TCCATTAATCTAATGGGGAGGAGCACCAGTGGTTTCTGCCAGGTGGGGGAGTAGGGGATTGGAGGGG
 GCAGAGGCTTTGGGGTTGGCAGCACTGGGGCTGGTGGCTTTGGAGGAGGTGGTTTGGGGGTGCTGGATT
 TGGGACTAGCAATTTGGGCTTGGGGCTTTGGTCCTTATTGTCCTCTGGGGGCATCCAAGAGGTGACC
 ATTAACCAAGAGCCTCTAGAGCACTTCACCTGGAGGTGGACCCTGAAATTCAGAGGATCAAGACCCAGG
 AGCGGGAGCAGATTATGGTTCTCAACAACAAGTTGCCTCCTTCATTGACAAGGTGCGATTCTGGAGCA
 GCAGAACCAGGTGCTACAAACAAAATGGGAGTTGCTGCAGCAGGTGAACACCTCAACTGGAACCAACAAC
 CTGGAGCCCTCTTGGAGAACTACATCGGTGACCTGCGGAGGCAGGTGGATTTGCTCAGTGCGGAGCAGA
 TGCGCCAGAACGCGGAGGTGAGGAGCATGAGGATGTCGTGGAGGACTACAAGAGCAAGTATGAGGATGA
 AATCAACAAGAGGACTGGCAGCGAGAATGACTTTGTCTGCTGAAGAAGGATGTGGATGCTGCTTATGTG
 AGCAAAGTGGACCTGGAGTCCAGGTGGACACTGACTGGGGAGGTCAATTTCTTGAATATTTATTTT
 TGACGGAGCTGTCTCAGGTGCAGACTCACATCAGCGACACCAACGTCATCCTGTCCATGGACAATAACCG
 TTCCCTGGACCTGGACAGCATCATCGATGCAGTGCGGACCCAGTATGAACTGATTGCACAGAGGAGCAAG
 GACGAGGCCGAAGCCCTGTACCAGACCAAGTACCAGGAGCTCCAGATCACGGCAGGGAGACATGGAGACG
 ACCTGAAGAAGCAGCAAGATGGAGATTGCAGAGCTCAACCGCACCGTCCAGAGGCTGCAGGCAGAGATCAG
 CAACGTGAAGAAGCAGATTGAACAGATGCAGTCACTCATTTTCGGATGCTGAGGAGAGAGGCGAGCAGGCC
 CTCCAGGATGCGTGGCAGAAGCTGCAGGACCTGGAGGAGGCCCTGCAGCAGTCCAAGGAGGAGCTGGCCC
 GGCTGCTGCGTGACTACCAGGCCATGCTGGGGTCAAGCTGTCCCTGGATGTGGAGATCGCCACCTACCG
 CCAGCTGCTGGAGGGCGAGGAGCAGGATGTCAGGAGAGCTGCAGAGCCATGTGAGCATCTCCGTGCAG
 AACAGCCAGGTGAGCGTCAACGGCGGCGGGAGGCGGCGGCGAGCTACGGCTCAGGAGGCTACGGCGGCG
 GCAGCGGTGGGGCTATGGCGCGGAAGAAGCTACCGGAGGCGGGGACGAGGCGGGAGTGGAGGCGG
 TTATGGCAGCGGCTGCGGCGGCGGTGGCGGAGCTACGGAGGAGCGGCAGAAGCGGCCGCGGATCTCG
 CGCGTGCAGATCATCCAGACCTCCACCAACACCTCCCACAGGCGGATCTGGAG

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC213129 protein sequence
 Red=Cloning site Green=Tags(s)

MSHQFSSQSAFSSMSRRVYSTSSSAGSGGGSPAVGSVCYARGRCGGGYGIHGRGFGSRSLYNLGGSRSI
 SINLMGRSTSGFCQGGGVGGFGGGRGFGVGSTGAGGFGGGGFGGAGFGTSNFGGFGPYCPPGGIIEVT
 INQSLLEPLHLEVDPEIQRKTQEREQIMVLNNKFASFIDKVRFLQNNQVLQTKWELLQQVNTSTGTNN
 LEPLLENYIGDLRRQVDLLSAEQMRQNAEVRSMQDVVEDYKSKYEDEINKRTGSENFVVLKKDVAAYV
 SKVDLESRVDTLTGEVNFLLKYLFTLSTQVQTHISDTNVILSMDNNRSLDLSIIDAVRTQYELIAQRSK
 DEAEALYQTKYQELQITAGRHGDDLKNSKMEIAELNRTVQRLQAEISNVKKQIEQMQLISDAEERGEQA
 LQDAWQKLQDLEALQKSKEELARLLRDYQAMLGKLSLDVEIATYRQLLEGEESRMSGELQSHVSIQVQ
 NSQVSVNGGAGGGGSYSGGYGGGSGGGYGGGRSYRGGARGGSGGGYSGCGGGGGSYGGSGRSGRGS
 RVQIIQTSTNTSHRRILE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

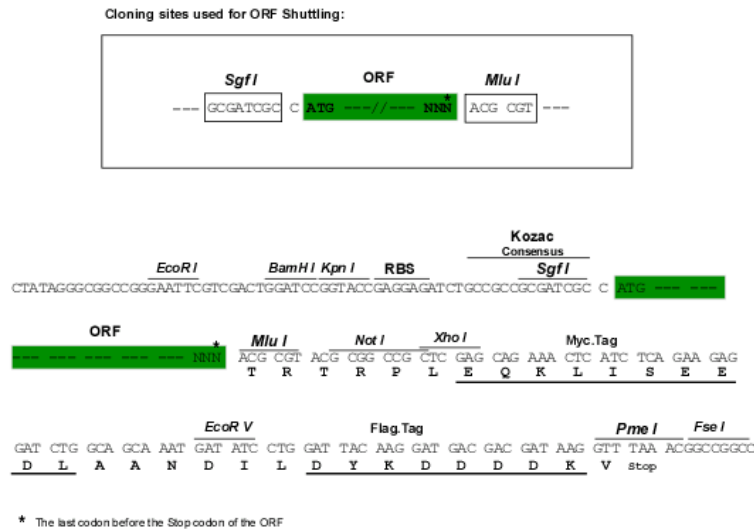
Chromatograms:

https://cdn.origene.com/chromatograms/mk6562_d06.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_175078

ORF Size: 1734 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_175078.3](#)

RefSeq Size: 3305 bp

RefSeq ORF: 1737 bp

Locus ID: 374454

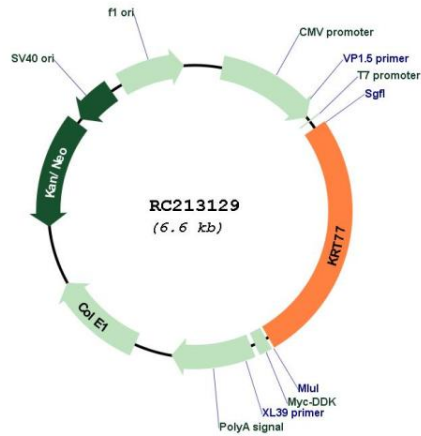
UniProt ID: [Q7Z794](#)

Cytogenetics: 12q13.13

MW: 61.8 kDa

Gene Summary: Keratins are intermediate filament proteins responsible for the structural integrity of epithelial cells and are subdivided into epithelial keratins and hair keratins. This gene encodes an epithelial keratin that is expressed in the skin and eccrine sweat glands. The type II keratins are clustered in a region of chromosome 12q13.[provided by RefSeq, Jun 2009]

Product images:



Circular map for RC213129