

Product datasheet for **RR213144**

KI (NM_031336) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: KI (NM_031336) Rat Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: KI
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 ORF Nucleotide Sequence: >RR213144 representing NM_031336
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCAGCCCGCGCCCTCCTCGCCGCTGCCGCGGCTTTGCTGCTCCGTTTGCTGTCGCTGCATCTGC
 TGTTGCTCACCCTGCGCGCCCGCTGCCTAAGCGCTGAGCCGGGTGAGGGCGCGCAGACCTGGGCTCGCTT
 TGCGCGCCCTCCTGTCCCAGAGGCTCTGGCTCCTCCATGACACCTTCCCCGATGGTTTCTCTGGGCG
 GTAGGCAGCGCCCTACCAGACGGAGGGCGGCTGGCGACAGCACGGCAAAGGCGCGTCCATCGGGACA
 CTTTCACCATCACCTCGGCCATCCCGAGGACTCCCGATCGTCATGGCGCCGTCGGGTGCCCGGTT
 GCCTCCCCTGCCCTCCACTGGAGATGTGGCCAGCGACAGTTACAACAACGCTTACC CGCAGACAGAGGGG
 CTACGCGAACTGGGGTCACTACTACCCTTCTCCATATCGTGGCGCGGGTGCTCCCCAATGGCACCG
 CGGGCACCCCAACCGCAGGGGCTGCGCTACTACCGCGGCTGCTGGAGCGGCTGAGGGAGCTGGGCGT
 GCAGCCGGTGGTCACTCTGTACCATTGGGACCTGCCGAGCGCCTGCAGGACACCTATGGCGGCTGGGCC
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 AGTACTGGATCACCATTGACAACCCTACGTGGTGGCCTGGCACGGGTACGCCACCGGCCCTGGCCCC
 GGGCGTGGGGGAGCTCAGGCTCGGGTACCTGGTTGCCACAACCTACTTTTGCTCAGCCAAAGTC
 TGGCGTCTTACAACACCTCCTTCGCCCCACTCAGGGGGCCGGGTGTCCATCGCCTTAGGTTCCATT
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 TTGGCACAGGGGCTACAGCATCCGACGAGGACTTTCTATGTCGACTTTCTGAGTCAGGACAAGGAGTTG
 TTGCCCAAGTCTTCGGCCTTGTCTACCAAAGCTGATAGAGAACAATGGCTTCCCTCCTTACCTGAGA
 ACCAGCCCTTGAAGGGACGTTTCCCTGTGACTTTGCTTGGGGAGTGGTTGACAACCTACATTCAAGTGA



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CCCCACTCTCTCTCAGTTTACTGACCCGAATGTCTATCTGTGGGATGTGCATCACAGTAAGAGGCTTATT
AAAGTAGACGGGGTTGTAGCCAAGAAGAGAAAACCTTACTGTGTTGATTTCTCTGCCATCCGGCCTCAGA
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GGGTAACCAGACTCAAGTGAACCGCACGGTTCTGCACTTCTACCCTGTATGGTCAGCGAGCTGGTGCAC
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TTCTGGAACGCTGGGAAGGTTTTGTCCGGAAGAGTACACCGTGTGCACCGGATGCGGCTTTTTTCAAACC
CGGAAGTCCCTGCTGGCCTTCACTCTGTTTCTAGTTTTGCTTTCGTTACTTCTCTCGCTTATTTATT
ACTACTCCAAGAAAGGCCGGAGACGTTATAAA
    
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ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
    
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Protein Sequence:

>RR213144 representing NM_031336
 Red=Cloning site Green=Tags(s)

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MPARAPPRRLPRLLLRLLSLHLLLLTLRARCLSAEPGQGAQTWARFARPPVPEASGLLHDTFPDGLWA
VGSAAAYQTEGGWRQHGKASIWDTFTTHHPRAIPEDSPIVMAPSGAPLPLPSTGDVADSYNNVYRDTEG
LRELVGTHYRFSISWARVLPNGTAGTPNREGLRYRLLERLRELVGQPVVTLYHWDLPQRLQDTYGGWA
NRALADHFRDYAELCFRHFQGVKYWITIDNPYVVAWHGYATGRLAPGVRGSSRLGYLVAHNLLLAHAKV
WRLYNTSFRPTQGGRVSIALGSHWITPRRMTDYHIRECQKSLDFVLGWFAPKPIFIDGDYPKSMKNNLSSL
LPDFTESEKRFIRGTADFFALSFGPTLSFQLLDPSMKFRQLESPLRQLLSWIDLEYNHPQIFIVENGWF
VSGTTRRDDAKYMYLKKFIMESLKAIRLDGVDVIGYTAWSLMDGFEWHRGYSIRRGLFYVDFLSQDKEL
LPKSSALFYQKLIENNGFPPLPENQPLEGTFPCDFAWGVVDNYIQVDPTLSQFTDPNVYLWDVHHSKRLI
KVDGVVAKKRKPYCVDFSAIRPQITLLREMRVTHFRFLDWALILPLGNQTQVNRVTLHFYRCMVSELVH
ANITPVVALWQPATPHQGLPHALAKHGAWENPHTALAFADYANLCEELGHVVKFWITINENPNSRNMTYR
AGHLLKHALAWHLYDDKFRAAQKGIKISIALQVDWIEPACPFQKDKVEAERVLEFDVWLAEPFIFGSG
DYPHVMREWLNQKNNFLLPYFTEDEKKLIRGSDFLALSHYTTILVDWEKEDIKYN DYLEVQEMTDITW
LNSPNQVAVVPWGLRKALNWLRFKYGDLPMFVTANGIDDDPHAEQDSLRYMYIKNYVNEALKAYVLDGIN
LCGYFAYSLSDRSVPKSGFYRYAANQFEPKPSIKHYRKIIDNNGFLGSGTLGRFCPEEYTVCTGCGFFQT
RKSLLAFISFLVFAFVTSLALIYYYSKKGRRRYK
    
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV
    
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Chromatograms:

https://cdn.origene.com/chromatograms/ja3703_e11.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_031336

ORF Size: 3042 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_031336.1](#), [NP_112626.1](#)

RefSeq Size: 3525 bp

RefSeq ORF: 3045 bp

Locus ID: 83504

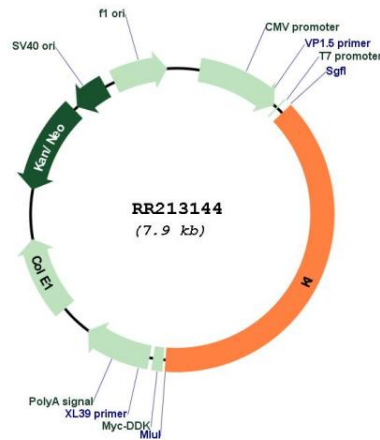
UniProt ID: [Q9Z2Y9](#)

Cytogenetics: 12p12

MW: 116.8 kDa

Gene Summary: may be involved in suppression of aging phenotypes [RGD, Feb 2006]

Product images:



Circular map for RR213144