

Product datasheet for **RR202556**

II21r (NM_001012469) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	II21r (NM_001012469) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	II21r
Synonyms:	MGC108921
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR202556 representing NM_001012469
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCACGGGGCCTGGCTGCTCCCTTACTCCTACTGATTCTCCATGGAGTTGGAGCTGCCTGGACCTCA
 CCTGCTACACTGACTACCTCTGGACCATCACCTGTGCTCCTGGAGACATGGAGCCCAACCTAGCATACT
 CAGTCTCACTGGCAAGATGAATACGAGAACTTCAGGACAAAGAAACATCCTGCAGCCTGCACGCTCT
 GGCCACAACACCACACATATGTGGTACACGTGCCATATGCGCTTGTCTCAATTCATGTCTGATGACGTTT
 TCACTGTCAACATGATGGACCAGTCTAGCAACAGCTCCCAAGAGTGTGGCAGCTTTGCTCCTGGCTGAGAG
 CATCAAGCCAGCTCCCCCTGAATGTGACTGTGACCTTCTCAGGACGATATGATATCTCCTGGGACTCA
 ATTTATGAAGAACCCTCCAACACTCGTGTGAGGGGCAAGCTACAATATGAGCTGCAGTATCGGAACCTCA
 GAGACCCCTATGCTGTGAGGCCGGTACCAAGCTGATCTCAGTGGACTCGAGAAACATCTCTCTTCTCCC
 TCAAGAGTTCCAGAAAGATTCTAGCTACCAGCTGCAGGTGCGGGCAGCACCTCAGCCAGGCACTTCAATC
 AGGGGGACCTGGAGTGGAGTGGAGTGACCCCATCATCTTTCAGACCCAGGCTGAGGAGCCCGAGGCAGGCT
 GGGACCCTCACGTACTGCTGCTCCTGGCTGTCTTGATCCTTGTCTGGTTTTATGGGTCTGAAGAACCA
 TCTGCCTTGGAGGCTATGCAAGAAGATATGGGCACCGGTGCCACCCCGAGAGTTTTCTCCAGCCCTG
 TACAGGGAGCACACGGGAACCTCAAGAAATGGGTTAATACCCCTTTCACGGCCTCCAGCGTGGAGCTGG
 GGCCACAGAGTCCCACAACATCAGTTTTACATCTGTCAATGTATCCAGCCAAGGGGAAGAAGTTCTGGG
 GCCGCTGGGTCTGGAAGAACAGCTGGAGTGTGATGGAATGTCTGGACCTGGTACAAGTGCCAAGGGGTC
 TCAGCCTACAGTGAAGAGAGAGACCGCCATATGGTCTGGTGTCCATTGACACAGTGAACCTGGGGATG
 CAGAGGGCCTGGGTGCTTGGCCCTTAGCTGTGAAGATGATGGCTACCCAGCCCTGAACCTGGAGCTGT
 CCGAGAGTCTGGCCCTAACGGAGAGACCTGCTCTTGGTACAGACCCTGCTTTTCTGTCTTGTGGCTGT
 GTCTCAGGGAGTGGACTCAGGCTAGGAGGCTCCCAGGACGCTACTGGACAGGTTGAGGCTGTCAATTTG
 CCAAGGAAGGGGACTGGACAGCAGGCCACCCTGGAGAAGTGGGTCCCTAGAAGGAGGCTCTGAGAGTGA
 AGCAGGTTACCCCTGGTCTGGACATGGACACATTTGACAGCGGCTTTGACAGTTTCACTGCGGCAGC
 CCTGTGGAGACTGATGAAGGACCCCTCGAAGCTATCTCCGCCAGTGGTGGTCAAGGACTCTCCACCTG
 TGGACAGTGGAGCCAGAACAGC

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR202556 representing NM_001012469
 Red=Cloning site Green=Tags(s)

MPRGLAAPLLLLILHGGWSDLTLCYTDYLWITCVLETWSPNPSILSLTWQDEYEELQDKETSCSLHAS
 GHNTTHMWTCHMRLSQFMSDDVFTVNMDQSSNSQECGSFVLAESIKPAPPLNVTVTFSGRYDISWDS
 IYEEPSNYVLRGKLQYELQYRNLDPYAVRPVTKLISVDSRNI SLLPQEFQKDSYQLQVRAAPQPGTSF
 RGTWSEWSDPIIFQTQAEPEAGWDPHVLLLLAVLILVLFMGLKNHLPWRLCKKIWAPVPTPEFFQPL
 YREHSGNFKKWVNTPFASSVELGPQSPTTSLVHL SLYPAKGKFLGPLGLEEQLECDGMSGPGHKCQGV
 SAYSEERDRPYGLVSIDVTVGDAEGLGAWPFSCEDDGYPALNLDAVRESGPNGEDLLLVTDP AFLSCGC
 VSGSGLRLGGSPGSLLDRLRLSFAKEGDWTAGPPWRTGSLEGGSESEAGSPPGLDMDTFDSGFAGSDCGS
 PVETDEGPPRSYLRQWVVRTPPPVD SGAQNS

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:


ACCN: NM_001012469

ORF Size: 1563 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_001012469.1](#), [NP_001012487.1](#)

RefSeq Size: 2426 bp

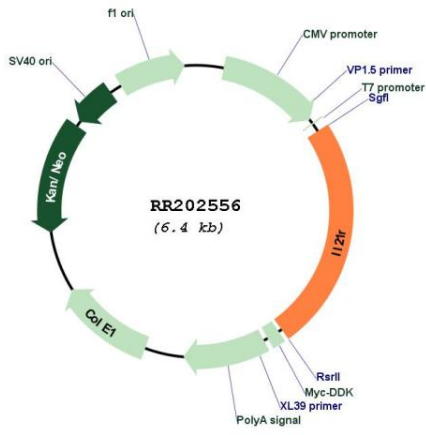
RefSeq ORF: 1566 bp

Locus ID: 308977

Cytogenetics: 1q36

MW: 57.4 kDa

Product images:



Circular map for RR202556