

Product datasheet for RR210914

II12a (NM_053390) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: II12a (NM_053390) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: II12a
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RR210914 representing NM_053390
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGTCAATCACGCTACCTCCTCTTCTTGCCACCCCTTGTCTCCTAAACCACCTCACTTCGGCCAGGG
TCATACCACTCTCTGGACCTGCCAAGTGTCTTAACCAGTCCCAAAACCTGCTGAAGACCACGGACGACAT
GGTGAGGACGGCCAGAGAAAAATTGAAACATTACTCTTGCCTGCTGGAGACATCGATCATGAAGACATC
ACACGGGACAAAACCAGCACACTGGAGGCTGCTTACCAGTCCACAAGAATGAGAGTTGCCTGG
CTACTAAAGAGACTTCTCCATAATAAGAGGGAGCTGCCTGCCCAAAAAGACTTCTTTGATGATGAC
CCTGTGCCTTGGTAGCATCTATGAGGACTTGAAGATGTACCAGTCCAGGTTCCAGGCCATAAATGCAGCA
CTTCAGAGCCACAATCATCAGCAGATCACTCTGGACAGAAACATGCTGATGGCTATTGATGAGCTAATGC
GGTCTCTGAATCACAGCGGCGAGACTCTGCACCAGAAAGCTCCCATGGGAGAAGCAGATCCTTACAGAGT
GAAGATGAAGCTCTGTATCCTGCTCCATGCCTTCAGCACCCGAGTCATGACTATCAACAGGGTATGAAC
TATCTGAGCTCCTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR210914 representing NM_053390
Red=Cloning site Green=Tags(s)

MCQSRYLLFLATLVLLNHLTSARVIPVSGPAKCLNQSQNLLKTTDDMVRTAREKLKHYSTAGDIDHEDI
TRDKTSTLEACLPLELHKNESCLATKETSSIIIRGSLPPQKTSMMTLCLGSIYEDLKMYQSEFQAINAA
LQSHNHQQITLDRNMLMAIDELMRSLNHSGETLHQKAPMGEADPYRVKMKLCILLHAFSTRVMTINRVMN
YLSSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

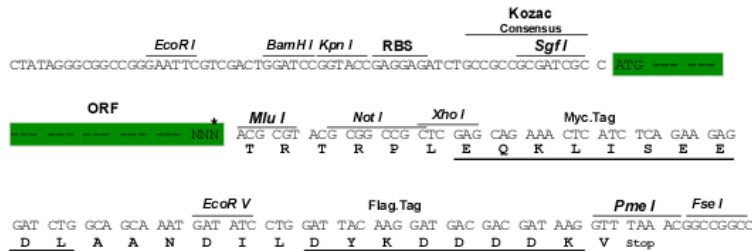
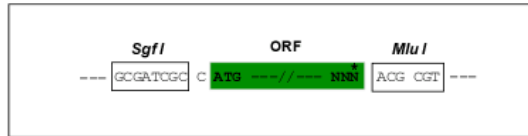


Chromatograms: https://cdn.origene.com/chromatograms/ja2772_b10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_053390

ORF Size: 645 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_053390.1](#), [NP_445842.1](#)

RefSeq Size: 793 bp

RefSeq ORF: 648 bp

Locus ID: 84405

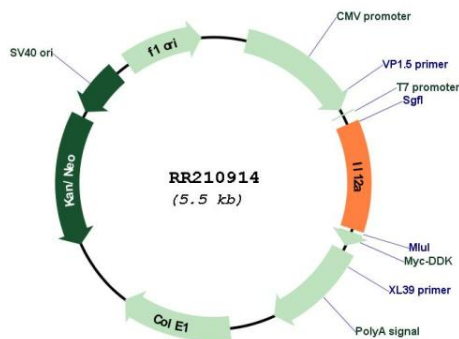
UniProt ID: [Q9R103](#)

Cytogenetics: 2q32

MW: 24.2 kDa

Gene Summary: mouse homolog is a subunit of heteromeric cytokine interleukin 12; loss of function is associated with experimental autoimmune encephalomyelitis [RGD, Feb 2006]

Product images:



Circular map for RR210914