

Product datasheet for MR205935

Rimkla (NM_177572) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rimkla (NM_177572) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rimkla
Synonyms:	B930030J24; NAAGS; NAAGS-II; Rimk
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205935 representing NM_177572 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGCGCGCAGGTCTGGCTGCTGACCGACCGCTCATCCGCGAGGACTACCCGAGGTGCAGATCCTGC
GCGCGCTCCGCCAGCGTCTCGGAGCAGGACGTGGTTCGGGGCGGTGTTCTGGACCAGATCGCCGT
CACCGTCGTCGGCGGCCACCTAGGCCTGCAGTGAGCCAGAAACCCCTGACCACCTTCCCCGACGTGGT
GTTGTTTCGAGTATCCACACCTCTGTCCAGTCGGATAGTGAGATCACCATCCTGAGGCACCTGGAGAAGC
TGGGCTGCGCTTGGTCAACCGTCTCAAAGCATCTAAACTGCATCAACAAGTTTTGGACATCCAAGA
GCTGGCTGGACATGGGGTCCCCATGCCAGACACCTTCTCCTATGGTGGGCACGAAGACTTCTCTAAATG
ATCGATGAAGCTGAGCCCTGGGCTACCCAGTGGTGGTGAAGAGCACACGGGGCACCGGGGAAAGCTG
TTTTTCTGGCCAGAGACAAGCATCACCTCTGACATCTGCCACCTAGTCCGCCATGATGTGCCCTACCT
GTTCCAGAAGTATGTGAAAGAGTCGCACGGGAAGGACATCCGGGTGGTGGTGGTGGTGGCCAGGTGATT
GGCTCCATGCTGCGCTGCTCCACAGACGGCCGATGCAAAGCAACTGCTTTCTAGGTGGTGGTGGTGGTCA
AGTGCCCACTGACCGAGCAAGGCAAGCAGCTGGCTATCCAGGTGTCCAACATCCTGGGCATGGATTTCTG
TGGCATCGACCTCTTATCATGGATGACGGCTCCTTACGGTGTGTGAGGCCAACGCCAATGTCGGCTTC
CTGGCCTTCGACCAGGCATGCAACTTAGATGTGGGGCAATCATTGCAGACTATGCTATGCTCCCTGCTGC
CAAACAGGCAGACTGGGAAGATGGCCATCCTCCGGGACTGGCAAGTCCCAGGGAGAAGAACGAGCCAAA
TGGTTGCGTTTCAGCTCAGGGAGTTGCAGAGAGTGTCTATGCCATCACCATGGGTCTACCTCTAGTGAG
AGTGAGCCTGAAGTGGGAGAGGCCCGGATTCTCAGTAAAAACAATGGGGGCCCGCTGCGCATGTTG
CCAAGCCTGGTTACAGCAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205935 representing NM_177572
Red=Cloning site Green=Tags(s)

MCAQVWLLTDRLIREDPVQVQILRALRQRCSEQDVGFRVFLDQIAVTVVGGHLGLQLSQKPLTTFPDVV
 VVRVSTPSVQSDSEITILRHLEKLGCLVNRPQSI LNCINKFWTFQELAGHGVPMPDTFSYGGHEDFSKM
 IDEAELGYPVVVKSTRGHRGKAVFLARDKHHLSDICHLVRHDVPYLFQKYVKESHGKDIRVVVGGQVI
 GSMLRSTDGRMQSNCFLLGGVGVKCPLEQGKQLAIQVSNILGMDFCGIDLLIMDDGSFTVCEANANVGF
 LAFDQACNLDVGAIIADYAMSLLPNRQTGKMAILPGLASPREKNEPNGCVSAQGVAVESVYAITNGSTSSE
 SEPELGEARDSSVKTMGAPPAHVAQAWLQH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9081_a01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_177572

ORF Size: 1140 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_177572.4](#), [NP_808240.2](#)

RefSeq Size: 4093 bp

RefSeq ORF: 1143 bp

Locus ID: 194237

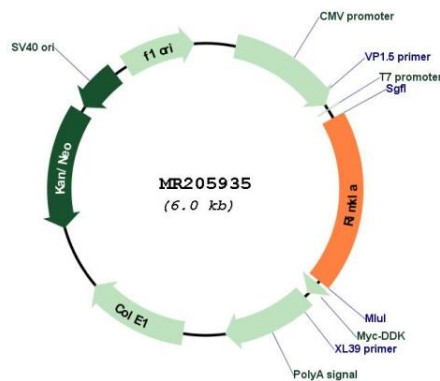
UniProt ID: [Q6PFX8](#)

Cytogenetics: 4 D2.1

MW: 41.5 kDa

Gene Summary: Catalyzes the synthesis of N-acetyl-L-aspartyl-L-glutamate (NAAG) and N-acetyl-L-aspartyl-L-glutamyl-L-glutamate.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205935