

Product datasheet for **RR213971**

Kynu (NM_053902) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kynu (NM_053902) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kynu
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR213971 representing NM_053902
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGAGCCCTCGCCTCTTGAGCTACCAAGTTGATGCAGTGCAGGCGCATCGCGGCTGAACCTCAATTGTGACC
 CAACCGATGAGAGGGTGGCTCTCCGCTTGATGAGGAAGATAAACTGAAGCGTTTAAAGGACTGTTTTTA
 TATCCCCAAAATGCGGGACCTGCCTTCAATTGATCTATCTTTAGTGAATGAGGATGATAATGCCATCTAT
 TTCCTGGGAAATTCCTTGGTCTTCAACCGAAGATGGTTAAACATACCTGGAGGAAGAGCTAGATAAGT
 GGGCCAAAATAGGAGCCTATGGCCATGAGGTAGGGAACGTCCTTGATTATAGGAGATGAGAGCATTGT
 AACCTTATGAAGGACATTGTAGGAGCCATGAGAAAGAAATAGCTCTAATGAATGCTTTGACTGTTAAT
 TTACATCTCTGCTGTTATCATTCTTTAAGCCTACACAAAGCGGCACAAAATCTTCTAGAAGCCAAAG
 CCTTCCCTTCTGATCATTATGCGATCGAGTCACAGATTCAACTTCATGGACTTGATGTTGAGAAAAGTAT
 GCGGATGATAAAGCCACGAGAGGGGGAAGAGACCTTAAGAATGGAGGACATACTGGAAGTAATTGAGAAG
 GAAGGAGACTCAATTGCTGTGGTCTGTTCAAGTGGCCTGCACTTTTATACTGGACAGCTGTTCAACATTC
 CTGCCATTACACAAGCCGGACATGCAAAGGGCTGTTTTGTTGGCTTTGACCTAGCGCATGCGGTTGAAAA
 TGTTGAACTCCACTTACATGACTGGGATGTTGACTTTGCTGCTGGTGTCTCTACAAGTATTTAAATTCA
 GGAGCTGGAGGTCTGGCTGGTGCCTTATCCATGAGAAACACGCTCACACGATCAAGCCAGCGTTAGTGG
 GATGGTTTCGCCATGAACCTCAGTACAAGATTTAACATGGATAACAACTACAATTAATCCCCGGGTCAA
 TGGATTCCGAATTTCAACCTCCCATTTCTGTTGGTCTGCTCCTTGATGCCAGTTTAGAGATCTTTCAG
 CAAGCAACTATGACTGCGCTGAGGAGAAAATCCATTCTGCTGACAGGTTATCTGGAATACTTGCTCAAAC
 ATTACCATGGCGGAAATGACACAGAAAACAAGAGGCCAGTTGTGAACATAATACCCCATCCAGAGCAGA
 GGAACGAGGCTGCCAGCTGACACTGACCTTTTCCATTTCCAAGAAAGGCGTTTTTAAGGAACTAGAAAAA
 AGAGGAGTCTGCTGTGACAAGCGAGAACCAGAAGGCATCCGGGTGGCCCCGGTTCCTCTCTATAATTCTT
 TCCATGATGTTTATAAGTTCATCAGACTGCTTACTGCCATACTCGACTCTACAGAAAGAAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR213971 representing NM_053902
 Red=Cloning site Green=Tags(s)

MEPSPLELPVDAVRRIAAELNCDPTDERVALRLDEEDKLKRFKDCFYIPKMRDLPSIDLVLNEDDNIAY
 FLGNSLGLQPKMVKTYLEEELDKWAKIGAYGHEVGKRPWIIIGDEIVTLMKDIVGAHEKEIALMNALTVN
 LHLLLLSFFKPTPKRHKILLEAKAFPSDHYAIESQIQLHGLDVEKSMRMKPREGEETLRMEDILEVIEK
 EGDSIAVVLFSGLHFTYQQLFNIPAITQAGHAKGCFVGFDLAHAVGNVELHLHDWDVDFACWCSYKYLNS
 GAGGLAGAFIHEKHAHTIKPALVGWFGHELSTRFNMDNKLQLIPGVNGFRISNPPILLVCSLHASLEIFQ
 QATMTALRRKSILLTGYLEYLLKHYHGGNDTENKRPVNIITPSRAEERGCQLTLTFSISKKGVFKELEK
 RGVVCDKREPEGIRVAPVPLYNFHDVYKFIRLLTAILDSTERN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_053902

ORF Size: 1392 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_053902.2](#), [NP_446354.1](#)

RefSeq Size: 1764 bp

RefSeq ORF: 1395 bp

Locus ID: 116682

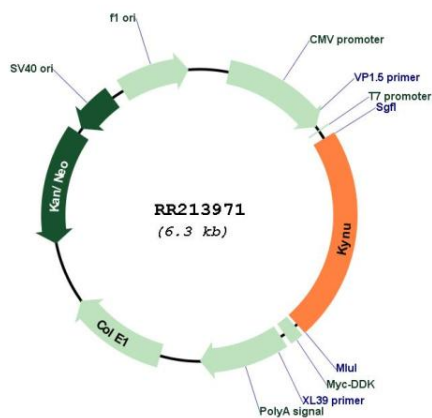
UniProt ID: [P70712](#)

Cytogenetics: 3q12

MW: 52.5 kDa

Gene Summary: enzyme involved in the biosynthesis of NAD cofactors from tryptophan [RGD, Feb 2006]

Product images:



Circular map for RR213971