

Product datasheet for **MR219320**

Kynu (NM_027552) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kynu (NM_027552) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kynu
Synonyms:	4432411A05Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR219320 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGATGGAGCCTTCGCCTCTTGAGCTTCCAGTTGATGCAGTGCAGGCGCATCGCGCTGAACCAATTGTG
 ACCCAACAGATGAGAGGGTTGCTCTCCGCTTGATGAGGAAGATAAACTGAGTCATTTAGGAAGCTTT
 TTATATCCCAAATGCGGGACCTGCCTTCAATTGATCTATCTTTAGTGAGTGAGGATGATGATGCCATC
 TATTTCTGGGAAATTCCTTGGCCTTCAACCGAAAATGGTTAGGACATACCTGGAGGAAGAAGTAGATA
 AGTGGGCCAAGATGGGAGCCTATGGCCATGATGTAGGCAAACGCCCTTGATTGTAGGGGATGAGAGTAT
 TGTAAGCCTTATGAAGGACATTGTAGGAGCCCATGAGAAAGAAATAGCTCTAATGAATGCTTTGACTATT
 AATTTACATCTCCTGCTGTTATCATTCTTAAGCCTACTCAAAGCGGCACAAAATCTTCTAGAAGCCA
 AAGCCTCCCTTCTGATCATTATGCTATTGAGTACAGATTCAACTTACGGACTTGATGTTGAGAAAAG
 TATGCGGATGGTAAAGCCACGAGAGGGGAAGAGACCTTAAGGATGGAGGACATACTGGAAGTAATCGAG
 GAGGAAGGAGACTCGATCGCCGTGATCCTGTTCACTGGGCTGCACCTTTATACTGGACAGCTGTTCAACA
 TTCTGCCATAACAAAAGCTGGACATGCAAGGGCTGTTTTGTTGGCTTTGACCTAGCACATGCAGTTGG
 AAATGTTGAACCTCCGCTTACATGACTGGGGTGTGACTTTGCCTGCTGGTGTTCCTATAAGTATTTAAAT
 TCAGGAGCTGGAGGTCTGGCTGGTGCCTTTGTCCACGAGAAACATGCTCATACTGTCAAGCTGCCTTAG
 TGGGATGGTTCGGCCATGACCTCAGTACAAGGTTAAACATGGATAACAACTACAATTAATCCCCGGGGC
 CAATGGATTCCGAATTTCAAACCTCCCATTTGTTGGTCTGCTCCTTGCACGCCAGTTTAGAGGCTTTT
 CAGCAAGCAACTATGACTGCGCTGAGAAGAAAATCCATTCTGCTGACAGGTTATCTGGAATACATGCTCA
 AACATTACCACAGCAAAGATAACACCGAAAACAAGGGGCGGATTGTGAATATCATCACCCGTCAGAGC
 AGAGGAGCGTGGCTGCCAGTTAACACTCACCTTTTCCATTCCCAAGAAAAGCGTTTTTAAGGAACTAGAA
 AAAAGAGGAGTCTTTGTGACAAGCGAGAACAGATGGCATCCGCGTGGCCCTGTTCTCTCTATAATT
 CTTTCCATGATGTTTATAAGTTCATCAGACTGCTCACTCCATACTCGACTCTTCAGAAAGAAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR219320 protein sequence
 Red=Cloning site Green=Tags(s)

MMEPSPLELPVDAVRRIAAELNCDPTDERVALRLDEEDKLSHFRNCFYIPKMRDLPSIDLVLSEDDDAI
 YFLGNSLGLQPKMVRTYLEEELDKWAKMGAYGHDVGRPWIVGDESIVSLMKDIVGAHEKEIALMNALTI
 NLHLLLLSFFKPTPKRHKILLEAKAFPSDHYAIESQIQLHGLDVEKSMRMVKPREGEETLRMEDILEVIE
 EEGDSIAVILFSLHFYTGQLFNIPAITKAGHAKGCFVGFDLAHAVGNVELRLHDWGVDFACWCSYKYLN
 SGAGGLAGAFVHEKHAHTVKPALVGFHDLSTRFNMDNKLQLIPGANGFRI SNPPILLVCSLHASLEV
 QQATMTALRRKSILLTGYLEMLKHYHSDNTENKGPVNIITPSRAEERGCQLTLTFSIPKKS VFKELE
 KRGVVCDKREPDGIRVAPVPLYNFHDVYKFI RLLTSILDSSERS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_027552

ORF Size: 1395 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_027552.2](#), [NP_081828.1](#)

RefSeq Size: 3070 bp

RefSeq ORF: 1398 bp

Locus ID: 70789

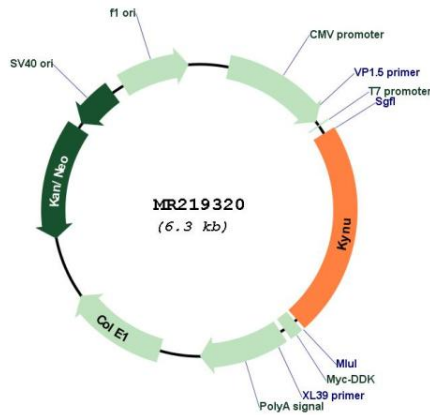
UniProt ID: [Q9CXF0](#)

Cytogenetics: 2 B

MW: 52.5 kDa

Gene Summary: Catalyzes the cleavage of L-kynurenine (L-Kyn) and L-3-hydroxykynurenine (L-3OHKyn) into anthranilic acid (AA) and 3-hydroxyanthranilic acid (3-OHAA), respectively. Has a preference for the L-3-hydroxy form. Also has cysteine-conjugate-beta-lyase activity.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR219320