

Product datasheet for **MC227037**

Kynu (NM_001289594) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kynu (NM_001289594) Mouse Untagged Clone
Tag: Tag Free
Symbol: Kynu
Synonyms: 4432411A05Rik
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC227037 representing NM_001289594
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGATGGAGCCTTCGCCTCTTGAGCTTCCAGTTGATGCAGTGC GGCGCATCGCGGCTGA ACTCAATTGTG
ACCCAACAGATGAGAGGGTTGCTCTCCGCTTGGATGAGGAAGATAAACTGAGTCATTTTAGGAAGTGT
TTATATCCCAAATGCGGGACCTGCCTCAATTGATCTATCTTTAGTGAGTGAGGATGATGATGCCATC
TATTTCTGGGAAATCCCTTGGCCTTCAACCGAAAATGTTAGGACATACCTGGAGGAAGAACTAGATA
AGTGGGCCAAGATGGGAGCCTATGGCCATGATGTAGGCAACGCCCTTGATTGTAGGGGATGAGAGTAT
TGTAAGCCTTATGAAGGACATTGTAGGAGCCCATGAGAAAAGAAATAGCTCTAATGAATGCTTTGACTATT
AATTTACATCTCCTGCTGTTATCATTCTTTAAGCCTACTCCAAAGCGGCACAAAATCTTCTAGAAGCCA
AAGCCTCCCTTCTGATCATTATGCTATTGAGTCACAGATTCACTTACGGACTTGATGTTGAGAAAAG
TATGCGGATGGTAAAGCCACGAGAGGGGGAAGAGACCTAAGGATGGAGGACATACTGGAAGTAAATCGAG
GAGGAAGGAGACTCGATCGCCGTGATCCTGTTGAGTGGGCTGCACTTTTATACTGGACAGCTGTTCAACA
TTCCTGCCATAACAAAAGCTGGACATGCAAAGGGCTGTTTTGTTGGCTTTGACCTAGCACATGCAGTTGG
AAATGTTGAACTCCGCTTACATGACTGGGTGTTGACTTTGCCTGCTGGTTCCTATAAGTATTTAAAT
TCAGGAGCTGGAGGTCTGGCTGGTGCCTTTGTCCACGAGAAACATGCTCATACTGTCAAGCCTGCGATGG
ACGACCTGCAGTGTGATATCAAGCTGAAAGGCAACCTGTTTGCATATGGACAGAGGAGAAAG**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001289594
Insert Size: 975 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none">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_001289594.1 , NP_001276523.1
RefSeq Size:	2807 bp
RefSeq ORF:	975 bp
Locus ID:	70789
UniProt ID:	Q9CXF0
Cytogenetics:	2 B
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) includes an alternate 3' terminal exon, compared to variant 1. It encodes isoform 3 which is shorter and has a distinct C-terminus, compared to isoform 1.</p> <p>Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>