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# Product datasheet for MC227647

## Kynu (NM_001289593) Mouse Untagged Clone

### Product data:

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| **Product Type:** | Expression Plasmids |
| **Product Name:** | Kynu (NM_001289593) 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:** | >MC227647 representing NM_001289593<br>Red=Cloning site Blue=ORF Orange=Stop codon<br><br>TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC<br>GCCGCGATCGCC<br><br>ATGATGGAGCCTTCGCCTCTTGAGCTTCCAGTTGATGCAGTGCGGCGCATCGCGGCTGAACTCAATTGTG<br>ACCCAACAGATGAGAGGGTTGCTCTCCGCTTGGATGAGGAAGATAAACTGAGTCATTTTAGGAACTGTTT<br>TTATATTCCCAAAATGCGGGACCTGCCTTCAATTGATCTATCTTTAGTGAGTGAGGATGATGATGCCATC<br>TATTTCCTGGGAAATTCCCTTGGCCTTCAACCGAAAATGGTTAGGACATACCTGGAGGAAGAACTAGATA<br>AGTGGGCCAAGATGGGAGCCTATGGCCATGATGTAGGCAAACGCCCTTGGATTGTAGGGGATGAGAGTAT<br>TGTAAGCCTTATGAAGGACATTGTAGGAGCCCATGAGAAAGAAATAGCTCTAATGAATGCTTTGACTATT<br>AATTTACATCTCCTGCTGTTATCATTCTTTAAGCCTACTCCAAAGCGGCACAAAATTCTTCTAGAAGCCA<br>AAGCCTTCCCTTCTGATCATTATGCTATTGAGTCACAGATTCAACTTCACGGACTTGATGTTGAGAAAAG<br>TATGCGGATGGTAAAGCCACGAGAGGGGGAAGAGACCTTAAGGATGGAGGACATACTGGAAGTAATCGAG<br>GAGGAAGGAGACTCGATCGCCGTGATCCTGTTCAGTGGGCTGCACTTTTATACTGGACAGCTGTTCAACA<br>TTCCTGCCATAACAAAAGCTGGACATGCAAAGGGCTGTTTTGTTGGCTTTGACCTAGCACATGCAGTTGG<br>AAATGTTGAACTCCGCTTACATGACTGGGGTGTTGACTTTGCCTGCTGGTGTTCCTATAAGTATTTAAAT<br>TCAGGAGCTGGAGGTCTGGCTGGTGCCTTTGTCCACGAGAAACATGCTCATACTGTCAAGCCTGCGTTAG<br>TGGGATGGTTCGGCCATGACCTCAGTACAAGGTTTAACATGGATAACAAACTACAATTAATCCCCGGGGC<br>CAATGGATTCCGAATTTCAAACCCTCCCATTTTGTTGGTCTGCTCCTTGCACGCCAGTTTAGAGGTCTTT<br>CAGCAAGCAACTATGACTGCGCTGAGAAGAAAATCCATTCTGCTGACAGGTTATCTGGAATACATGCTCA<br>AACATTACCACAGCAAAGATAACACCGAAAACAAGGGGCCGATTGTGAATATCATCACCCCGTCCAGAGC<br>AGAGGAGCGTGGCTGCCAGTTAACACTCACCTTTTCCATTCCCAAGAAAAGCGTTTTTAAGGAACTAGAA<br>AAAAGAGGAGTCGTTGTATGTATATAA<br><br>ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT<br>ACAAGGATGACGACGATAAGGTTTAA |



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| **Restriction Sites:** | SgfI-MluI |
| **ACCN:** | NM_001289593 |
| **Insert Size:** | 1287 bp |
| **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:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_001289593.1, NP_001276522.1 |
| **RefSeq Size:** | 1604 bp |
| **RefSeq ORF:** | 1287 bp |
| **Locus ID:** | 70789 |
| **UniProt ID:** | Q9CXF0 |
| **Cytogenetics:** | 2 B |
| **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]<br>Transcript Variant: This variant (2) contains a 3' terminal exon which extends past a splice site that is used in variant 1. This results in a novel 3' coding region and 3' UTR, compared to variant 1. It encodes isoform 2 which is shorter and has a distinct C-terminus, compared to isoform 1. 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. |