

## Product datasheet for **MR229248**

### Kynu (NM\_001289594) Mouse Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Kynu (NM\_001289594) Mouse Tagged ORF Clone  
 Tag: Myc-DDK  
 Symbol: Kynu  
 Synonyms: 4432411A05Rik  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 Cell Selection: Neomycin  
 ORF Nucleotide Sequence: >MR229248 representing NM\_001289594  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATGGAGCCTTCGCCTCTTGAGCTTCCAGTTGATGCAGTGGCGGCATCGCGGCTGAACCAATTGTG  
 ACCCAACAGATGAGAGGGTTGCTCTCCGCTTGGATGAGGAAGATAAACTGAGTCATTTAGGAAGTGT  
 TTATATCCCAAATGCGGGACCTGCCTCAATTGATCTATCTTTAGTGAGTGAGGATGATGATGCCATC  
 TATTTCTGGGAAATCCCTTGGCCTTCAACCGAAAATGTTAGGACATACCTGGAGGAAGAACTAGATA  
 AGTGGGCAAGATGGGAGCCTATGGCCATGATGTAGGCAACGCCCTTGGATTGTAGGGGATGAGAGTAT  
 TGTAAGCCTTATGAAGGACATTGTAGGAGCCCATGAGAAAAGAAATAGCTCTAATGAATGCTTTGACTATT  
 AATTTACATCTCCTGCTGTTATCATTCTTTAAGCCTACTCCAAAGCGGCACAAAATTTCTTAGAAGCCA  
 AAGCCTTCCCTTCTGATCATTATGCTATTGAGTCACAGATTCAACTTACGGACTTGATGTTGAGAAAAG  
 TATGCGGATGGTAAAGCCACGAGAGGGGGAAGAGACCTAAGGATGGAGGACATACTGGAAGTAAATCGAG  
 GAGGAAGGAGACTCGATCGCCGTGATCCTGTTGAGTGGGCTGCACTTTTACTGGACAGCTGTTCAACA  
 TTCCTGCCATAACAAAAGCTGGACATGCAAAGGGCTGTTTTGTTGGCTTTGACCTAGCACATGCAGTTGG  
 AAATGTTGAACTCCGCTTACATGACTGGGGTGTGACTTTGCCTGCTGGTTCCTATAAGTATTTAAAT  
 TCAGGAGCTGGAGGTCTGGCTGTTGCTTTGTCCACGAGAAACATGCTCATACTGTCAAGCCTGCGATGG  
 ACGACTGCAGTGTGATCAAGCTGAAAGGCAACCTGTTGCATATGGACAGAGGAGAAAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR229248 representing NM\_001289594  
 Red=Cloning site Green=Tags(s)

MMEPSPLELPVDAVRRIAAELNCDPTDERVALRLDEEDKLSHFRNCFYIPKMRDLPSIDLVLSEDDDAI  
 YFLGNSLGLQPKMVRTYLEEELDKWAKMGAYGHDVGKRPWIVGDESIVSLMKDIVGAHEKEIALMNALTI  
 NLHLLLLSFFKPTPKRHKILLEAKAFPSDHYAIESQIQLHGLDVEKSMRMVKPREGEETLRMEDILEVIE  
 EEGDSIAVILFSGLHFYTGQLFNIPAITKAGHAKGCFVGFDLAHAVGNVELRLHDWGVDFACWC SYKYLN  
 SGAGGLAGAFVHEKHAHTVKPAMDDLQCDIKLKGNLFAYGQRRK

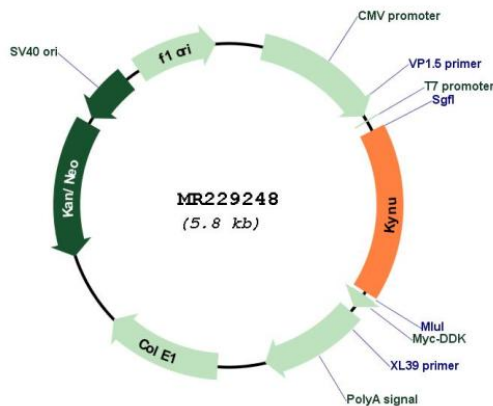
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001289594

**ORF Size:** 972 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001289594.1</a> , <a href="#">NP_001276523.1</a>
<b>RefSeq Size:</b>	2807 bp
<b>RefSeq ORF:</b>	975 bp
<b>Locus ID:</b>	70789
<b>UniProt ID:</b>	<a href="#">Q9CXF0</a>
<b>Cytogenetics:</b>	2 B
<b>MW:</b>	37 kDa
<b>Gene Summary:</b>	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]