

Product datasheet for **MG219320**

Kynu (NM_027552) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kynu (NM_027552) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Kynu
Synonyms:	4432411A05Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG219320 representing NM_027552
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGGAGCCTTCGCCTCTTGAGCTTCCAGTTGATGCAGTGCGGCGCATCGCGGCTGAACCAATTGTG
 ACCCAACAGATGAGAGGGTTGCTCTCCGCTTGGATGAGGAAGATAAACTGAGTCATTTTAGGAAGCTTT
 TTATATCCCAAATGCGGGACCTGCCTTCAATTGATCTATCTTTAGTGAGTGAGGATGATGATGCCATC
 TATTTCTGGGAAATTCCTTGGCCTTCAACCGAAATGGTTAGGACATACCTGGAGGAAGAAGTAGATA
 AGTGGGCCAAGATGGGAGCCTATGGCCATGATGTAGGCAAACGCCCTTGGATTGTAGGGGATGAGAGTAT
 TGTAAGCCTTATGAAGGACATTGTAGGAGCCCATGAGAAAGAAATAGCTCTAATGAATGCTTTGACTATT
 AATTTACATCTCCTGCTGTTATCATTCTTAAAGCCTACTCAAAGCGGCACAAAATCTTCTAGAAGCCA
 AAGCCTCCCTTCTGATCATTATGCTATTGAGTCACAGATTCAACTTCACGGACTTGATGTTGAGAAAAG
 TATGCGGATGGTAAAGCCACGAGAGGGGAAGAGACCTTAAGGATGGAGGACATACTGGAAGTAATCGAG
 GAGGAAGGAGACTCGATCGCCGTGATCCTGTTCACTGGGCTGCACCTTTATACTGGACAGCTGTTCAACA
 TTCTGCCATAACAAAAGCTGGACATGCAAGGGCTGTTTTGTTGGCTTTGACCTAGCACATGCAGTTGG
 AAATGTTGAACCTCCGCTTACATGACTGGGGTGTGACTTTGCCTGCTGGTGTTCCTATAAGTATTTAAAT
 TCAGGAGCTGGAGGTCTGGCTGGTGCCTTTGTCCACGAGAAACATGCTCATACTGTCAAGCCTGCCTTAG
 TGGGATGGTTCGGCCATGACCTCAGTACAAGGTTTAAACATGGATAACAACTACAATTAATCCCCGGGGC
 CAATGGATTCCGAATTTCAAACCTCCCATTTTGTGGTCTGCTCCTTGCACGCCAGTTTAGAGGCTTTT
 CAGCAAGCAACTATGACTGCGCTGAGAAGAAAAATCCATTCTGCTGACAGGTTATCTGGAATACATGCTCA
 AACATTACCACAGCAAAGATAACACCCGAAAACAAGGGGCCGATTGTGAATATCATCACCCCGTCCAGAGC
 AGAGGAGCGTGGCTGCCAGTTAACACTCACCTTTTCCATTCCCAAGAAAAGCGTTTTTAAGGAAGTAGAA
 AAAAGAGGAGTCTTTGTGACAAGCAGAACAGATGGCATCCGCGTGGCCCTGTTCTCTCTATAATT
 CTTTCCATGATGTTTATAAGTTCATCAGACTGCTCACTCCATACTCGACTCTTCAGAAAGAAGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG219320 representing NM_027552
 Red=Cloning site Green=Tags(s)

MMEPSPLELPVDAVRRIAELNCDPTDERVALRLDEEDKLSHFRNCFYIPKMRDLPSIDLVLSEDDDAI
 YFLGNSLGLQPKMVRTYLEEELDKWAKMGAYGHVGVKRPWIVGDESIVSLMKDIVGAHEKEIALMNALTI
 NLHLLLLSFFKPTPKRHKILLEAKAFPSDHYAIESQIQLHGLDVEKSMRMVKPREGEETLRMEDILEVIE
 EEGDSIAVILFSGLHFYTGQLFNIPAITKAGHAKGCFVGFDLAHAVGNVELRLHDWGVDFACWCSYKYLN
 SGAGGLAGAFVHEKHAHTVKPALVGFHDLSTRFNMDNKLQLIPGANGFRISNPPILLVCSLHASLEVF
 QQATMTALRRKSILLTGYLEMLKHYHSDNTENKGPIVNIITPSRAEERGCQLTLTFSIPKKSVMFKELE
 KRGVVCDKREPDGIRVAPVPLYSFHDVYKFI RLLTSILDSSERS

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

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:	<u>NM_027552.2</u> , <u>NP_081828.1</u>
RefSeq Size:	2733 bp
RefSeq ORF:	1398 bp
Locus ID:	70789
UniProt ID:	<u>Q9CXF0</u>
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]