

Product datasheet for **MG206825**

Kynu (BC069848) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kynu (BC069848) 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)
ORF Nucleotide Sequence:	>MG206825 representing BC069848 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGGAGCCTTCGCTCTTGAGCTTCCAGTTGATGCAGTGCGGCGCATCGCGGCTGAACTCAATTGTG
ACCCAACAGATGAGAGGGTTGCTCTCCGCTTGATGAGGAAGATAAACTGAGTCATTTTAGAACTGTTT
TTATATCCCAAATGCGGGACCTGCCTCAATTGATCTATCTTTAGTGAGTGAGGATGATGATGCCATC
TATTTCTGGGAAATCCCTTGGCCTTCAACCGAAAATGGTTAGGACATACCTGGAGGAAGAAGTAGATA
AGTGGCCAAGATGGGAGCCTATGGCCATGATGTAGGCAACGCCCTTGATTGTAGGGGATGAGAGTAT
TGTAAGCCTTATGAAGGACATTGTAGGAGCCATGAGAAAAGAAATAGCTCTAATGAATGCTTTGACTATT
AATTTACATCTCCTGCTGTTATCATTCTTTAAGCCTACTCCAAAGCGGCACAAAATCTTTCTAGAAGCCA
AAGCCTCCCTTCTGATCATTATGCTATTGAGTCACAGATTCACTTACGGACTTGATGTTGAGAAAAG
TATGCGGATGGTAAAGCCACGAGAGGGGAAGAGACCTAAGGATGGAGGACATACTGGAAGTAATCGAG
GAGGAAGGAGACTCGATCGCCGTGATCCTGTTCAGTGGCTGCACTTTTATACTGGACAGCTGTTCAACA
TTCCTGCCATAACAAAAGCTGGACATGCAAAGGGCTGTTTTGTTGGCTTTGACCTAGCACATGCAGTTGG
AAATGTTGAACTCCGCTTACATGACTGGGTGTGACTTTGCCTGCTGGTGTTCCTATAAGTATTTAAAT
TCAGGAGCTGGAGTCTGGCTGGCTTTGTCCACGAGAAACATGCTCATACTGTCAAGCCTGCGTTAG
TGGGATGGTTCGGCCATGACCTCAGTACAAGGTTAACATGGATAACAACTACAATTAATCCCGGGGC
CAATGGATTCCGAATTTCAAACCTCCCATTTTGTGGTCTGCTCCTTGCACGCCAGTTTAGAGGCTTTT
CAGCAAGCAACTATGACTGCGCTGAGAAGAAAATCCATTCTGCTGACAGGTTATCTGGAATACATGCTCA
AACATTACCACAGCAAAGATAACACCGAAAACAAGGGCCGATTGTGAATATCATCACCCGTCAGAGC
AGAGGAGCGTGGCTGCCAGTTAACTACTCACCTTTCCATTCCAAGAAAAGCGTTTTTAAGGAACTAGAA
AAAAGAGGAGTCGTTGTATGTATA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206825 representing BC069848
Red=Cloning site Green=Tags(s)

MMEPSPLELPVDAVRRIAELNCDPTDERVALRLDEEDKLSHFRNCFYIPKMRDLPSIDLSLVSEDDDAI
 YFLGNSLGLQPKMVRTYLEEELDKWAKMGAYGHVDVGRPWIVGDESIVSLMKDIVGAHEKEIALMNALTI
 NLHLLLLSFFKPTPKRHKILLEAKAFPSDHYAIESQIQLHGLDVEKSMRMVKPREGEETLRMEDILEVIE
 EEGDSIAVILFSGLFHYTGQLFNIPAITKAGHAKGCFVGFDLAHAVGNVELRLHDWGVDFACWCSYKYLN
 SGAGGLAGAFVHEKHAHTVKPALVWFGHDLSTRFNMDNKLQLIPGANGFRI SNPPILLVCSLHASLEVF
 QQATMTALRRKSILLTGYLEYMLKHYHSDNTENKGPVNIITPSRAEERGCQLTLTFSIPKKS VFKELE
 KRGVVVCI

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: BC069848

ORF Size: 1286 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: [BC069848](#), [AAH69848](#)

RefSeq Size: 1624 bp

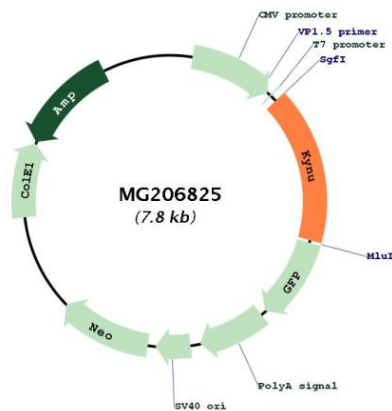
RefSeq ORF: 1286 bp

Locus ID: 70789

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]

Product images:



Circular map for MG206825