

Product datasheet for **RG232794**

L Kynurenine Hydrolase (KYNU) (NM_001199241) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	L Kynurenine Hydrolase (KYNU) (NM_001199241) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KYNU
Synonyms:	KYNUU; VCRL2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG232794 representing NM_001199241
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCCTTCATCTCTTGAGCTGCCGGCTGACACAGTGCAGCGCATTGCGGCTGAACTCAAATGCCACC
 CAACGGATGAGAGGGTGGCTCTCCACCTAGATGAGGAAGATAAGCTGAGGCACCTTCAGGGAGTGCTTTTA
 TATCCCAAAAATACAGGATCTGCCTCCAGTTGATTATCATTAGTGAATAAAGATGAAAATGCCATCTAT
 TTCTTGGGAAATCTCTTGGCCTTCAACCAAAAATGGTTAAAACATATCTGAAGAAGAACTAGATAAGT
 GGGCAAAAATAGCAGCCTATGGTCATGAAGTGGGAAGCGTCCTTGGATTACAGGAGATGAGAGTATTGT
 AGGCCTTATGAAGGACATTGTAGGAGCCAATGAGAAAGAAATAGCCCTAATGAATGCTTTGACTGTAAT
 TTACATCTTCTAATGTTATCATTTTTTAAGCCTACGCCAAAACGATATAAAAATCTCTAGAAGCCAAAG
 CCTTCCCTCTGATCATTATGCTATTGAGTCACAACACAACCTCACGGACTTAACATTGAAGAAAGTAT
 GCGGATGATAAAGCCAAGAGAGGGGGAAGAAACCTTAAGAATAGAGGATATCCTTGAAGTAAATGAGAAG
 GAAGGAGACTCAATTGCAGTGATCCTGTTCAGTGGGGTGCAATTTTACACTGGACAGCACTTAAATATTC
 CTGCCATCACAAAAGCTGGACAAGCGAAGGGTTGTTATGTTGGCTTTGATCTAGCACATGCAAGTTGAAA
 TGTTGAACTCTACTTACATGACTGGGGAGTTGATTTTGCCTGCTGGTGTCTTACAAATTTAAATGCA
 GGAGCAGGAGGAATTGCTGGTGCCTTATTTCATGAAAAGCATGCCATACGATTAACCTGCATTAGTGG
 GATGGTTTGGCCATGAACTCAGCACCAGATTTAAGATGGATAACAAACTGCAGTTAATCCCTGGGGTCTG
 TGGATCCGAATTTCAAATCCTCCATTTTGTGGTCTGTTTCTTGCATGCTAGTTTAGAGATCTTTAAG
 CAAGCGACAATGAAGGCATTGCGGAAAAAATCTGTTTTGCTAACTGGCTATCTGGAATACCTGATCAAGC
 ATAACATGGCAAAGATAAAGCAGCAACCAAGAAACCAGTTGTGAACATAATTACTCCGTCTCATGTAGA
 GGAGCGGGGTGCCAGCTAACAAATAACATTTTCTGTTTCCAAACAAGATGTTTTCCAAGAAGTAAAAA
 AGAGGAGTGGTTTGTACAAGCGAATCCAATGGCATTTCGAGTGGCTCCAGTTCCTCTCTATAATTCTT
 TCCATGATGTTTATAAATTTACCAATCTGCTCACTTCTATACTTGACTCTGCAGAAACAAAAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG232794 representing NM_001199241
 Red=Cloning site Green=Tags(s)

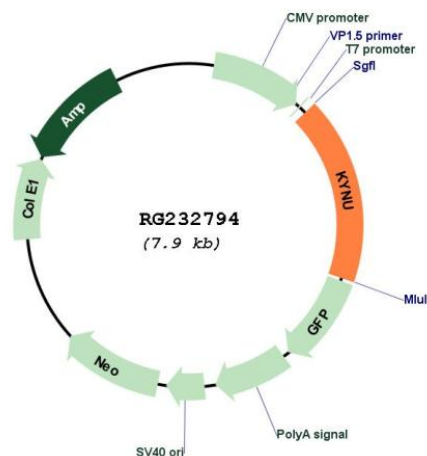
MEPSSLELPADTVQRIAAELKCHPTDERVALHLDEEDKLRHFRECFYIPKIQDLPPVDLSLVNKDENAIY
 FLGNSLGLQPKMVKTYLEELDKWAKIAAYGHEVGKRPWITGDESIVGLMKDIVGANEKEIALMNALTVN
 LHLLMLSFFKPTPKRYKILLEAKAFPSDHYAIESQLQLHGLNIEESMRMIKPREGEETLRIEDILEVIEK
 EGDSIAVILFSGVHFYTGQHFNIPAITKAGQAKGCYVGFDLAHAVGNVELYLHDWGVDFACWCSYKYLNA
 GAGGIAGAFIHEKHAHTIKPALVGWFGHELSTRFKMDNKLQLIPGVCGFRISNPPILLVCSLHASLEIFK
 QATMKALRKKSVLLTGYLEYLKHNKYGDKAATKKPVVNIITPSHVEERGQTLITFSVPNKDVFQELEK
 RGVVCDKRNPNGIRVAPVPLYNFHDVYKFTNLLTSILDSAETKN

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Plasmid Map:

ACCN: NM_001199241

ORF Size: 1395 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:	<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_001199241.2</u>
RefSeq Size:	1774 bp
RefSeq ORF:	1398 bp
Locus ID:	8942
UniProt ID:	<u>Q16719</u>
Cytogenetics:	2q22.2
Protein Families:	Protease
Protein Pathways:	Metabolic pathways, Tryptophan metabolism
Gene Summary:	Kynureninase is a pyridoxal-5'-phosphate (pyridoxal-P) dependent enzyme that catalyzes the cleavage of L-kynurenine and L-3-hydroxykynurenine into anthranilic and 3-hydroxyanthranilic acids, respectively. Kynureninase is involved in the biosynthesis of NAD cofactors from tryptophan through the kynurenine pathway. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2010]