

Product datasheet for **RC214932**

L Kynurenine Hydrolase (KYNU) (NM_003937) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	L Kynurenine Hydrolase (KYNU) (NM_003937) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	L Kynurenine Hydrolase
Synonyms:	KYNUU; VCRL2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC214932 representing NM_003937
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGAGCCTTCATCTCTTGAGCTGCCGGCTGACACAGTGCAGCGCATTGCGGCTGAACTCAAATGCCACC
 CAACGGATGAGAGGGTGGCTCTCCACCTAGATGAGGAAGATAAGCTGAGGCACTTCAGGGAGTGCTTTTA
 TATCCCAAAATACAGGATCTGCCTCCAGTTGATTATCATTAGTGAATAAAGATGAAAAATGCCATCTAT
 TTCTTGGGAAATCTCTTGGCCTTCAACCAAAAATGGTTAAAACATATCTTGAAGAAGAACTAGATAAGT
 GGGCCAAAATAGCAGCCTATGGTCATGAAGTGGGAAGCGTCCTTGGATTACAGGAGATGAGAGTATTGT
 AGGCCTTATGAAGGACATTGTAGGAGCCAATGAGAAAGAAATAGCCCTAATGAATGCTTTGACTGTAAT
 TTACATCTTCTAATGTTATCATTTTTTAAAGCCTACGCCAAAACGATATAAAAATCTTCTAGAAGCCAAAG
 CCTTCCCTCTGATCATTATGCTATTGAGTCACAACACAACCTCACGGACTTAACATTGAAGAAAGTAT
 GCGGATGATAAAGCCAAGAGAGGGGGAAGAAACCTTAAGAATAGAGGATATCCTTGAAGTAAATTGAGAAG
 GAAGGAGACTCAATTGCAGTGATCCTGTTCAGTGGGGTGCATTTTTACACTGGACAGCACTTAAATATTC
 CTGCCATCACAAAAGCTGGACAAGCGAAGGGTGTATGTTGGCTTTGATCTAGCACATGCAGTTGGAAA
 TGTTGAACTCTACTTACATGACTGGGGAGTTGATTTTGCCTGCTGGTGTCTTACAAAGTATTTAAATGCA
 GGAGCAGGAGGAATTGCTGGTGCCTTATTTCATGAAAAGCATGCCATACGATTAACCTGCATTAGTGG
 GATGGTTTGGCCATGAACCTCAGCACCAGATTTAAGATGGATAACAAACTGCAGTTAATCCCTGGGGTCTG
 TGGATCCGAATTTCAAATCCTCCATTTTGTGGTCTGTTTCTTGCATGCTAGTTTAGAGATCTTTAAG
 CAAGCGACAATGAAGGCATTGCGGAAAAAATCTGTTTTGCTAACTGGCTATCTGGAATACCTGATCAAGC
 ATAACATGCGCAAAGATAAAGCAGCAACCAAGAAACAGTTGTGAACATAATTACTCCGCTCATGATAGA
 GGAGCGGGGTGCCAGCTAACAAATAACATTTTCTGTTTCCAAACAAGATGTTTTCCAAGAAGTAAAAAA
 AGAGGAGTGGTTTGTACAAGCGAATCCAATGGCATTTCGAGTGGCTCCAGTTCCTCTCTATAATTCTT
 TCCATGATGTTTATAAATTTACCAATCTGCTCACTTCTATACTTGACTCTGCAGAAAAAAAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC214932 representing NM_003937
 Red=Cloning site Green=Tags(s)

MEPSSLELPADTVQRIAAELKCHPTDERVALHLDEEDKLRHFRECFYIPKIQDLPPVDLSLVNKDENAIY
 FLGNSLGLQPKMVKTYLEELDkWAKIAAYGHEVGKRPWITGDESIVGLMKDIVGANEKEIALMNALTVN
 LHLLMLSFFKPTPKRYKILLEAKAFPSDHAIIESQLQLHGLNIEESMRMIKPREGEETLRIEDILEVIEK
 EGDSIAVILFSGVHFYTGQHFNIPAITKAGQAKGCYVGFDLAHAVGNVELYLHDWGVDFACWCSYKYLNA
 GAGGIAGAFIHEKHAHTIKPALVGFHGLSTRFKMDNKLQLIPGVCGRISNPPILLVCSLHASLEIFK
 QATMKALRKKSLLLLTYLEYLIKHNKGDKAATKPKVVNIITPSHVEERGQLTITFSVPNKDVFQELEK
 RGVVCDKRNPNIRVAPVPLYNFHDVYKFTNLLTSILDSAETKN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg4974_a09.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_003937

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:

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_003937.3](#)

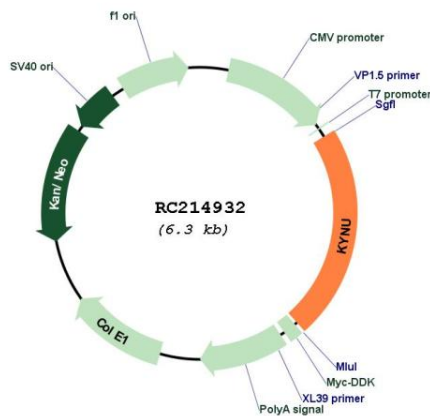
RefSeq Size: 1688 bp

RefSeq ORF: 1398 bp

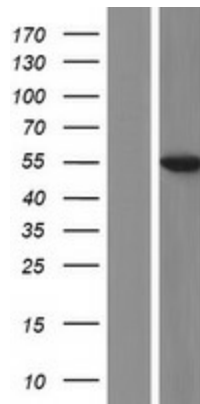
Locus ID: 8942

UniProt ID: [Q16719](#)
Cytogenetics: 2q22.2
Protein Families: Protease
Protein Pathways: Metabolic pathways, Tryptophan metabolism
MW: 52.2 kDa
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]

Product images:



Circular map for RC214932



Western blot validation of overexpression lysate (Cat# [LY418347]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214932 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).