

Product datasheet for **SC322236**

L Kynurenine Hydrolase (KYNU) (NM_001032998) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	L Kynurenine Hydrolase (KYNU) (NM_001032998) Human Untagged Clone
Tag:	Tag Free
Symbol:	L Kynurenine Hydrolase
Synonyms:	KYNUU; VCRL2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for SC322236
GGCCTGTACATTTTCAAGGAATTCCTTGAGAGTTCTTGGAGAGATTCTGGGAGCCAAACA
CTCCATTGGGATCCTAGCTGTTTTAGAGAACAACCTGTAATGGAGCCTTCATCTCTTGAG
CTGCCGGCTGACACAGTGCAGCGCATTGCGGCTGAACTCAAATGCCACCCAACGGATGAG
AGGGTGGCTCTCCACCTAGATGAGGAAGATAAGCTGAGGCACTTCAGGGAGTGCTTTTAT
ATTCCCAAAATACAGGATCTGCCTCCAGTTGATTTATCATTAGTGAATAAAGATGAAAAT
GCCATCTATTTCTGGGAAATTCTCTTGGCCTTCAACCAAAAATGGTTAAAACATATCTT
GAAGAAGAAGTAGATAAGTGGGCCAAAATAGCAGCCTATGGTCATGAAGTGGGAAGCGT
CCTTGGATTACAGGAGATGAGAGTATTGTAGGCCTTATGAAGGACATTGTAGGAGCCAAT
GAGAAAAGAAAATAGCCCTAATGAATGCTTTGACTGTAATTTACATCTTCTAATGTTATCA
TTTTTTAAGCCTACGCCAAAACGATATAAAATTCTTCTAGAAGCCAAAGCCTTCCCTTCT
GATCATTATGCTATTGAGTCACAACCTACAACTTACGGACTTAACATTGAAGAAAGTATG
CGGATGATAAAGCCAAGAGAGGGGGAAGAAACCTTAAGAATAGAGGATATCCTTGAAGTA
ATTGAGAAGGAAGGAGACTCAATTGCAGTGATCCTGTTCAAGTGGGGTGCATTTTTACT
GGACAGCACTTTAATATTCCTGCCATCACAAAAGCTGGACAAGCGAAGGGTTGTTATGTT
GGCTTTGATCTAGCACATGCAGTTGAAATGTTGAACTTACTTACATGACTGGGGAGTT
GATTTTGCCTGCTGGTGTTCCTACAAGTATTTAAATGCAGGAGCAGGAGGAATTGCTGGT
GCCTTCATTGATAAAGCATGCCCATACGATTAACCTGCGAGATCGGAGTTCTTTAAT
TAGGAATGGAATGCAACGATTTGGACAAGTCAAGGACAAGACTTTAGAGAGACCAAAG
AGTTTTTCACTGTTAAAGTGTCCAGTATGTAGCGAGAACCATATGGAGAACATCAAATA
CAGTGGAAACAAATGTAAGTCTATTGATGTCACACTTTGTGAAGTACTTTTGTGCTTA
AAAAGGGTGACATCTAGTGGCTAAACATGTTATTTCAAATAAATAATATCGAAATAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites:	Please inquire
ACCN:	NM_001032998



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_001032998.1</u> , <u>NP_001028170.1</u>
RefSeq Size:	1315 bp
RefSeq ORF:	924 bp
Locus ID:	8942
UniProt ID:	<u>Q16719</u>
Cytogenetics:	2q22.2
Protein Families:	Protease
Protein Pathways:	Metabolic pathways, Tryptophan metabolism
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR, 3' UTR and coding region compared to variant 3. The resulting isoform (b) is shorter and has a distinct C-terminus compared to isoform a.</p>