

Product datasheet for **MR229995**

Kyat3 (NM_001293560) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kyat3 (NM_001293560) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kyat3
Synonyms:	Ccbl2; Kat3; KATIII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR229995 representing NM_001293560
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTTTTGGCCAGAGGAGACTCATCTCCCTTGCTGCAGATCAAAGCCATAAAGACAATTTACTCTT
 CTTGAAAAGTCCTCGACTCTGCACTTCTGCCAAAATGGCTTTGAAATTCAAAAACGCCAAACGAATCGA
 AGGCCTGGACAGCAATGTGTGGTTGAATTTACTAAGTTGGCTGCGGATCCTTCTGTGGTGAACCTTGA
 CAAGGCTTTCCAGATATATCCCCTCCTTCATACGTAAAAGAAGAGTTATCAAAGGCTGCATTTATTGATA
 ACATGAATCAATACACAAGAGGCTTTGGTCATCCAGCACTTGTGAAAGCTCTGTCCTGCTTATATGGAAA
 GATTTATCAACGTCAAATTTGATCCAAACGAAGAAATCCTTGTGGCCGTGGGGGCATATGGATCTCTCTT
 AACTCCATCCAAGGATTGGTGGACCCAGGAGATGAAGTGATAATTATGGTGCCTTTTACGACTGTTATG
 AGCCCATGGTGAATGGCCGGAGCAGTGCCTGTGTTTATCCCCTGAGATCTAAACCTACTGACGGGAT
 GAAGTGGACTAGCTCTGACTGGACATTCGATCCTCGAGAAGTAAATTCAGTTCCAAAACGAAA
 GCCATAATATAAATACTCCACACAACCCCTCGCAAGGTGTATACCAGACAGGAGCTGCAAGTCAATTG
 CTGACCTTTGCGTCAAGCACGACTCTGTGCATCAGCGATGAGGTTTATGAATGGCTTGTCTATACTGG
 ACATACGCACGTAATAATAGCCACTCTTCCAGGTATGTGGGAGAGAAACAATAACAATAGGAAGTGCCTGGC
 AAGACATTCAGTGTGACTGGCTGGAAGCTCGGCTGGAGCATTGGCCCTGCTCACCTGATAAAGCATTAC
 AGACCGTTCAACAGAACAGTTTTTACACGTGTGCGACTCCTTTACAGGCAGCCTTGGCCGAGGCGTTTTG
 GATCGATATCAAGCGCATGGATGACCCTGAGTGTACTTTAATCTCTGCCAAAGGAATTAGAAGTAAAG
 AGAGATCGGATGGTCCGTTTACTTAACAGCGTTGGCCTGAAACCCATTGTTCTGACGGGGTTACTTCA
 TCATTGCTGATGTCTTATTAGGTGCTGACCTCTCGACATGAACAGCGATGAGCCTTATGACTATAA
 GTTTGTGAAGTGGATGACGAAACATAAGAAACTGACAGCCATTCCTGTTTCTGCCTTCTGCGACTCCAAG
 TCTAAACCACTTTGAGAAGCTGGTGGGTTTTGCTTTATTAATAAAGACAGCACACTGGATGCTGCC
 AAGAAATCTTCAGGCCTGGAACAGCCAGAAGTCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR229995 representing NM_001293560
 Red=Cloning site Green=Tags(s)

MLLAQRRLISLGCRSKPIKTIYSSSKVLGLCTSAKMALKFKNAKRIEGLDSNVWVEFTKLAADPSVNLG
 QGFDPDISPPSYVKEELSKAAFIDNMNQYTRFGHPALVKALSCLYGKIYQRQIDPNEEILVAVGAYGLF
 NSIQGLVDPGDEVIIMVPFYDCYEPMVRMAGAVPVFIPLRSKPTDGMKWTSSDWTDFPRELESKFSKTK
 AIILNTPHNPLGKYYTRQELQVIADLCVKHDTLCISDEVYEWLVYTGHTHVKIATLPGMWERTITIGSAG
 KTFSVTWKLGWSIGPAHLIKHLQTVQQNSFYTCATPLQAALAEAFWIDIKRMDDPECFNSLPKELEVK
 RDRMVRLNLSVGLKPIVDPGGYFIIADVSSLGADLSDMNSDEPYDYKFKVWMTKHKKLTAI PVSAFCDSK
 SKPHFEKLVRFKFIKIDSTLDAEEIFRAWNSQKS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001293560

ORF Size: 1365 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: [NM_001293560.1](#), [NP_001280489.1](#)

RefSeq Size: 2275 bp

RefSeq ORF: 1368 bp

Locus ID: 229905

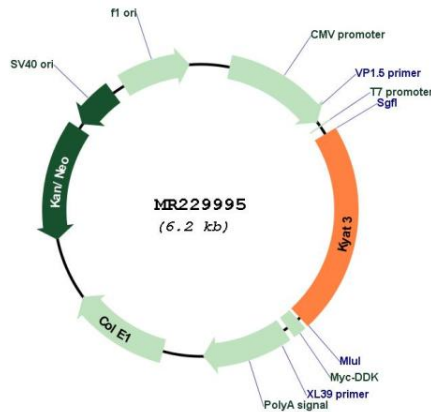
UniProt ID: [Q71RI9](#)

Cytogenetics: 3 H1

MW: 51.6 kDa

Gene Summary: Catalyzes the irreversible transamination of the L-tryptophan metabolite L-kynurenine to form kynurenic acid (KA). May catalyze the beta-elimination of S-conjugates and Se-conjugates of L-(seleno)cysteine, resulting in the cleavage of the C-S or C-Se bond (By similarity). Has transaminase activity towards L-kynurenine, tryptophan, phenylalanine, serine, cysteine, methionine, histidine, glutamine and asparagine with glyoxylate as an amino group acceptor (in vitro). Has lower activity with 2-oxoglutarate as amino group acceptor (in vitro).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR229995