

## Product datasheet for **MC212873**

### Kyat3 (NM\_173763) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Kyat3 (NM_173763) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kyat3
Synonyms:	Ccbl2; Kat3; KATIII
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC212873 representing NM_173763 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGCTTTGAAATTCAAAAACGCCAACGAATCGAAGGCCTGGACAGCAATGTGTGGTTGAATTTACTA  
AGTTGGCTGCGGATCCTTCTGTGGTGAACCTTGGACAAGGCTTTCCAGATATATCCCCTCCTTCATACGT  
AAAAGAAGAGTTATCAAAGGCTGCATTTATTGATAACATGAATCAATACACAAGAGGCTTTGGTCATCCA  
GCACCTTGTAAGGCTCTGTCCTGCTTATATGGAAAGATTTATCAACGTCAAATTGATCCAACGAAGAAA  
TCCTTGTGGCCGTGGGGGCATATGGATCTCTCTTAACTCCATCCAAGGATTGGTGGACCCAGGAGATGA  
AGTGATAATTATGGTGCCTTTTTACGACTGTTATGAGCCCATGGTGAAGATGGCCGGAGCAGTGCCTGTG  
TTTATCCCCTGAGATCTAAACCTACTGACGGGATGAAGTGGACTAGCTCTGACTGGACATTCGATCCTC  
GAGAACTGGAAAGTAAATTCAGTTCCAAAACGAAAGCCATAATATTAATACTCCACACAACCCCTCGG  
CAAGGTGTATACCAGACAGGAGCTGCAAGTCATTGCTGACCTTTGCGTCAAGCAGCAGACTCTGTGCATC  
AGCGATGAGGTTTATGAATGGCTTGTCTACTGGACATACGCACGTAAAAATAGCCACTTCCAGGTA  
TGTGGGAGAGAACAATAACAATAGGAAGTGTGGCAAGACATTCAGTGTGACTGGCTGGAAGCTCGGCTG  
GAGCATTGGCCCTGCTCACCTGATAAAGCATTTACAGACCGTTCAACAGAACAGTTTTTACACGTGTGCG  
ACTCCTTTACAGGCAGCCTTGGCCGAGGCGTTTTGGATCGATATCAAGCGCATGGATGACCTGAGTGT  
ACTTTAATTCTCTGCCAAAGGAATTAGAAGTAAAGAGAGATCGGATGGTCCGTTTACTTAACAGCGTTGG  
CCTGAAACCCATTGTTCTGACGGGGTTACTTCATCATTGCTGATGTGTCTTATTAGGTGCTGACCTC  
TCGGACATGAACAGCGATGAGCCTTATGACTATAAGTTTTGTGAAGTGGATGACGAAACATAAGAACTGA  
CAGCCATTCTGTTTCTGCCTTCTGCGACTCCAAGTCTAAACCACACTTTGAGAAGCTGGTGGGTTTTG  
CTTTATAAAAAAGACAGCACACTGGATGCTGCCGAAGAAATCTTCAGGGCTGGAACAGCCAGAAGTCT  
TGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_173763
<b>Insert Size:</b>	1263 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_173763.4</a></u> , <u><a href="#">NP_776124.1</a></u>
<b>RefSeq Size:</b>	2279 bp
<b>RefSeq ORF:</b>	1263 bp
<b>Locus ID:</b>	229905
<b>UniProt ID:</b>	<u><a href="#">Q71RI9</a></u>
<b>Cytogenetics:</b>	3 H1
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR and uses an alternate splice site in a 5' exon resulting in the use of a downstream start codon compared to variant 1. The encoded isoform (2) has a shorter N-terminus compared to isoform 1.</p>