

## Product datasheet for **RN205954**

### **Kyat3 (NM\_001015037) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Kyat3 (NM_001015037) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Kyat3
Synonyms:	Ccbl2; Kat3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >RN205954 representing NM\_001015037  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTTTTGGCCAGAGGAGACTTTCTCCCTTGCTGCAGAGCAAAGCCATAAAGACAATTTACTCTT  
 CGAAAGTTCTCGACTCTCCACTTCTGCCAAAATGGCTTTGAGATTCAAAAATGCCAAACGAATCGAAGG  
 CCTGGACCAAAACGTGTGGGTTGAATTTACCAAGTTGGCCGCGGATCCTTCTGTGGTGAATCTTGACAA  
 GGTTTTCTGATATAACCCTTCCTTCATATGTACAAGAAGAATTGTCAAAGGCGGCATTTATTGATAACC  
 TGAATCAATACACAAGGGGCTTTGGTCATCCATCACTTGTGAAAGCGCTATCCTGCTTACGGAAGAT  
 TTATCAAAGCAAATTGATCCAATGAAGAAATCTTGTGACGGTGGGGGATATGGATCGCTCTTAAT  
 GCCATCCAAGGCTTGGTGGACCCAGGAGATGAAGTGATAATTATGGTGCCTTTTACGACTGTTATGAGC  
 CCATGGTGAAGGCTGGAGCAGTGCCTGTGTTTATCCCTGAGATCTAACGTAAGTACGCGGATGAA  
 GTGGACTAGCTCTGATTGGACATTCAATCCTCAAGAACTGAAAGTAAATTCAGTTCCAAAACGAAAGCC  
 ATTATATTAATACTCCACATAACCCATCGGCAAGGTGTATACCAGAGAGGAGCTGCAAGTCATTGCTG  
 ACCTTTGCATCAAACATGACACTTTGTGCATCAGCGATGAGGTTTATGAATGGCTTGTCTATACTGGACA  
 TAAGCACATAAAAGTAGCCAGCCTCCCTGGCATGTGGGATCGGACCCTGACCATCGGCAGTGCAGGCAAG  
 ACATTCAGTGTGACCGGCTGGAAGCTCGGCTGGAGCATTGGCCCTGGTCACCTGATAAAACATTTGCGGA  
 CTGTTACAGCAAACAGTGTATACACGTGTGCAACTCCTTACAGGCAGCCTTGGCCGAGGCTTTTGGAT  
 CGATATCAAGCGCATGGATGACCCAGAGTGTACTTCAATTCTCTGCCAAAGGAATTAGAAGTTAAGAGA  
 GATCGGATGGCCTGTTACTTAAACAGCGTTGGCCTGAAACCCATCATCCCTGACGGGGCTACTTCATCA  
 TTGCCGATGTGCTTTCATTAGGTGTTGACCTCTCGGATGTGAAGAGCGATGAGCCTTATGACTATAAGTT  
 TGTGAAGTGGATGACGAAAAATAAGAAATTGTGACGCCATTCTGTATCCGCTTCTGCGACTCCGAGTCT  
 AAACCTCACTTTGAGAAGTTGGTGCCTTTGCTTTATCAAAAAAGACAGCACTCTGGATGCTGCGGAAG  
 AAATCTCAGGACGTGGAACAGCCGGAAGTCT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM\_001015037
- Insert Size:** 1365 bp
- 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).
- 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\\_001015037.1](#), [NP\\_001015037.1](#)

RefSeq Size: 1660 bp

RefSeq ORF: 1365 bp

Locus ID: 541589

UniProt ID: [Q58FK9](#)

Cytogenetics: 2q44

**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) (By similarity).[UniProtKB/Swiss-Prot Function]