

Product datasheet for **RN213264**

Kyat1 (NM_001013164) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kyat1 (NM_001013164) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Kyat1
Synonyms:	Ccbl1; Gtk; Kat1; Katl
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN213264 representing NM_001013164
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTT**CAGGAGTGCAGCAGCCCTCTCGGTGCACCTGATGTGGCCACTCTGGGAAGGAAAGCTGGAGCCT**
CACTACCCGGTCTTGACACAGTCTCTACCATGACCAACGGCTGCAGGCTCGGAGGCTGGACGGGAT
TGATCAAACCTCTGGGTGGAGTTTGGCAAAGTACCAAGGAGTATGACGTCGTGAACCTGGGTCAGGGC
TTCCCTGACTTCTCGCTCCGGACTTTGCAACGCAAGCTTTTCAGCAGGCTACCAAGTGGAACTTCATGC
TCAACCACTACACAGGGCATTGGTTACCCACCACTGACAAACGTCCTGGCAAGTTCTTTGGCAAGCT
GCTGGGACAGGAGATGGACCCACTCACGAATGTGCTGGTACAGTGGTGCCTATGGGGCCTTGTTCACA
GCCTTTCAGGCCCTGGTGGATGAAGGAGATGAGGTCATCATCATGGAACCTGCTTTTACTGTTATGAAC
CCATGACAATGATGGCTGGAGTTGCCCTGTGTCGTGACTCTGAAGCCGAGCCCTGCTCCTAAGGGGAA
ACTGGGAGCCAGCAATGATTGGCAACTGGATCCTGCAGAACTGGCCAGCAAGTTCACACCTCGCACCAAG
ATCCTGGTCTCAACACACCCAACAACCTTTAGGAAAGGTATTCTCTAGGATGGAGCTGGAGCTGGTGG
CTAATCTGTGCCAGCAGCAGATGTCGTGTGCATCTCTGATGAGGTCTACCAGTGGCTGGTCTATGACGG
GCACCAGCACGTGAGCATCGCCAGCCTCCCTGGCATGTGGGATCGGACCCTGACCATCGGCAGTGCAGGC
AAAAGTTCAGTGCCACTGGCTGGAAGTGGGCTGGGTCCAGATAACATCATGAAGCACCTGA
GGACAGTGCACCAGAATTCTATCTTCCACTGCCCCACCCAGGCCAGGCTGCAGTAGCCAGTGCCTTGA
GCGGGAGCAGCAACACTTTGGACAACCCAGCAGTACTTTTGCAGCTGCCACAGGCCATGGAGCTGAAC
CGAGACCACATGATCCGTAGCCTGCAGTGCAGTGGCCCTCAAGCTCTGGATCTCCAGGGGAGCTACTTCC
TCATTGCAGACATCTCAGACTTCAAGAGCAAGATGCCTGACCTGCCGGAGCTGAGGATGAGCCTTATGA
CAGACGCTTTGCCAAGTGGATGATCAAAAACATGGGCTTGGTGGGCATCCCTGTCTCCACATTCTCAGT
CGGCCCATCAGAAGGACTTTGACCACTACATCCGATTCTGTTTTGTCAAGGACAAGGCCACACTCCAGG
CCATGGATGAGAGACTGCGCAAGTGAAAGAGCTCCAACCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001013164

Insert Size: 1374 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_001013164.3](#), [NP_001013182.3](#)

RefSeq Size: 1417 bp

RefSeq ORF: 1374 bp

Locus ID: 311844

UniProt ID: [Q08415](#)

Cytogenetics: 3p12

Gene Summary: Catalyzes the irreversible transamination of the L-tryptophan metabolite L-kynurenine to form kynurenic acid (KA). Metabolizes the cysteine conjugates of certain halogenated alkenes and alkanes to form reactive metabolites. Catalyzes 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).[UniProtKB/Swiss-Prot Function]