

Product datasheet for **RR213264**

Kyat1 (NM_001013164) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kyat1 (NM_001013164) Rat Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>RR213264 representing NM_001013164
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTT**CAGGAGTGCAGCAGCCCTCTCGGTGCACCTGATGTGGCCACTCTGGGAAGGAAAGCTGGAGCCT**
CACTACCCGGTCTTGACACAGTCTCTACCATGACCAACGGCTGCAGGCTCGGAGGCTGGACGGGAT
TGATCAAAACCTCTGGGTGGAGTTTGGCAAAGTACCAAGGAGTATGACGTCGTGAACCTGGGTCAAGGC
TTCCCTGACTTCTCGCTCCGGACTTTGCAACGCAAGCTTTTCAGCAGGCTACCAGTGGAACTTCATGC
TCAACAGTACACCAGGGCATTGGTTACCCACCACTGACAAACGTCCTGGCAAGTTCTTTGGCAAGCT
GCTGGGACAGGAGATGGACCCACTCACGAATGTGCTGGTACAGTGGTGCCTATGGGCGCTTGTTCACA
GCCTTTCAGGCCCTGGTGGATGAAGGAGATGAGGTCATCATCATGGAACCTGCTTTTACTGTTATGAAC
CCATGACAATGATGGCTGGAGTTGCCCTGTGTCGTGACTCTGAAGCCGAGCCCTGCTCCTAAGGGGAA
ACTGGGAGCCAGCAATGATTGGCAACTGGATCCTGCAGAACTGGCCAGCAAGTTCACACCTCGCACCAAG
ATCCTGGTCTCAACACACCCAACAACCTTTAGGAAAGGTATTCTCTAGGATGGAGCTGGAGCTGGTGG
CTAATCTGTGCCAGCAGCAGATGTCGTGTGCATCTCTGATGAGGTCTACCAGTGGCTGGTCTATGACGG
GCACCAGCACGTGAGCATCGCCAGCCTCCCTGGCATGTGGGATCGGACCCTGACCATCGGCAGTGCAGGC
AAAAGTTCAGTGCCACTGGCTGGAAGTGGGCTGGGTGATGGTCCAGATAACATCATGAAGCACCTGA
GGACAGTGCACCAGAATTCTATCTTCCACTGCCCCACCCAGGCCAGGCTGCAGTAGCCAGTGCCTTGA
GCGGGAGCAGCAACACTTTGGACAACCCAGCAGTACTTTTTGCAGCTGCCACAGGCCATGGAGCTGAAC
CGAGACCACATGATCCGTAGCCTGCAGTCAAGTGGGCTCAAGCTCTGGATCTCCAGGGGAGCTACTTCC
TCATTGCAGACATCTCAGACTTCAAGAGCAAGATGCCTGACCTGCCCGGAGCTGAGGATGAGCCTTATGA
CAGACGCTTTGCCAAGTGGATGATCAAAAACATGGGCTTGGTGGGCATCCCTGTCTCCACATTCTCAGT
CGGCCCATCAGAAGGACTTTGACCACTACATCCGATTCTGTTTTGTCAAGGACAAGGCCACACTCCAGG
CCATGGATGAGAGACTGCGAAGTGGAAAGAGCTCCAACCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR213264 representing NM_001013164
 Red=Cloning site Green=Tags(s)

MFRSAAALSVHLMWPLWGRKAGASLTRCLHQSLTMTKRLQARRLDGIDQNLWVEFGKLTKEYDVVNLGQG
 FPDFSPPDFATQAFQATSGNFMLNQYTRAFGYPLTNVLASFSGKLLGQEMDPLTNVLVTVGAYGALFT
 AFQALVDEGDEVIIMEPAFDCYEPMTMMAGGCPVFVTLKPSAPKGLGASNDWQLDPAELASKFTPRTK
 ILVNLTPNPLGKVFSRMELELVANLCCQHDVVCISDEVYQWLVDYGHQHVSIASLPGMWDRTLIGSAG
 KSFSATGWKVGWVMPDNIMKHLRTHQNSIFHCPTQAQAAVAQCFFEREQQHFQPSYFLQLPQAMELN
 RDHMIRSLQSVGLKLWISQGSYFLIADISDFKSKMPDLPGAEDEPYDRRFKWMIKNMGLVGIPVSTFFS
 RPHQKDFDHYIRFCFVKDKATLQAMDERLRKWKELQP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

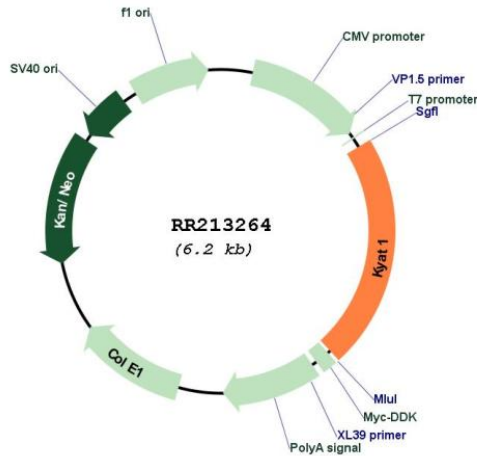
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001013164

ORF Size: 1371 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:	<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:	NM_001013164.3 , NP_001013182.3
RefSeq Size:	1417 bp
RefSeq ORF:	1374 bp
Locus ID:	311844
UniProt ID:	Q08415
Cytogenetics:	3p12
MW:	51.6 kDa
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]