

## Product datasheet for **MR206747**

### **Kyat1 (NM\_172404) Mouse Tagged ORF Clone**

#### **Product data:**

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                             |
| Product Name:             | Kyat1 (NM_172404) Mouse Tagged ORF Clone        |
| Tag:                      | Myc-DDK   |
| Symbol:                   | Kyat1   |
| Synonyms:                 | 2010009K05Rik; AI182306; Ccbl1; Gtk; Kat1; Katl |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-Entry (PS100001)                          |
| E. coli Selection:        | Kanamycin (25 ug/mL)                            |



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ORF Nucleotide  
Sequence:

>MR206747 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGTCCAAACAGCTGCAGGCTCGAAGGCTGGAAGGGATCGATCACAACCCCTGGGTGGAGTTTACCAGAC  
TGTCGAAGGAGTATGATGTCGTGAACCTGGGCCAGGGCTTCCCTGACTTCTCACCGCCAGACTTTGCTGT  
GCAAGCTTTTTCAGCAGGCTACCACTGGGAACCTCATGCTCAACCAGTACACCTCAGCGTTTGGTTACCC  
CCTACTGACAAAGATCCTGGCAAGTTTCTTTGGCAAGCTGCTGGGACAGGAGATGGACCCACTCAAGAATG  
TGCTGGTGACAGTGGGAGCCTATGGGGCCTTGTTCACAGCCTTTCAGGCCCTGGTGGATGAAGGAGACGA  
GGTCATCATCATCGAACCTGCTTTTAATTGTTACGAACCCATGACAATGATGGCTGGAGGTGCGCCCTGTG  
TTCGTGTCCTGAGGCTGAGTCTGCTCCTAAGGGGCAGCTGGGATCCAGCAATGATTGGCAGCTGGACC  
CCACAGAAGTGGCCAGCAAGTTCACACCTCGCACCAAGATCCTGGTCTCAACACACCCCAACAACCTCT  
GGGAAAGTATTCTCTAAGAAGGAGCTGGAGCTGGTGGCTGCACTGTGCCAACAGCATGATGTCCTGTGC  
TTCTCTGATGAGGTCTACCAAGTGGTCTATGATGGGCACCAGCACATCAGCATTGCCAGCCTCCCTG  
GCATGTGGGAACGGACACTGACCATCGGCAGCGCAGGCAAAAGCTTCAGTGCCACTGGCTGGAAGGTGGG  
CTGGGTGATGGGTCCAGATAACATCATGAAGCACCTGCGGACTGTGCACCAGAACTCTATCTTTCACTGC  
CCCACCCAGGCCAGGCTGCAAGTACCCAGTGTCTTGGAGCGGGAGCAGCAACACTTTGGACAACCCAGCA  
GTTACTTTTTGCAGCTGCCACAGGCCATGGGCCTGAACCGAGACCACATGATCCAGAGCCTGCAGTCAGT  
GGGCCTCAAGCCCTTGATCCCCAGGGCAGCTACTTCTCATTGCAGACATCTCAGACTTCAAGAGCAGC  
ATGCCCCAGCTGCCTGGTGTATGGATGAGCCCTATGATACACGCTTGGCAAGTGGATGATCAAAAACA  
AGGGGCTGTCAGCCATCCCTGTCTCCACCTTCTATAGCCAGCCCATCATAAGGACTTTGACCACTACAT  
CCGATTCTGTTTTGTGAAGGACAAGGCTACACTCCAGGCCATGGATAAGAGGCTGTGCAGCTGGAAGGA  
GAGCCCCAAGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

## Protein Sequence:

>MR206747 protein sequence  
Red=Cloning site Green=Tags(s)

MSKQLQARRLEGIDHNPWVEFTRLKEYDVVNLGQGFPDFSPPDFAVQAFQQATTGNFMLNQYTSAFGY  
PLTKILASFFGKLLGQEMDPLKNVLVTGAYGALFQALVDEGDEVIIIEPAFNCEPMTMMAGGRP  
FVSLRLSPAPKQQLGSSNDWQLDPTTELASKFTPRTKILVLNTPNNPLGKVFSSKELELVAALCQQHDVLC  
FSDEVYQWL VYDGHQHISIASLPGMWERTLTIGSAGKSF SATGWKVGWVMGPDNIMKHLRTVHQNSIFHC  
PTQAQA AVAQCFEREQQHFQPSYFLQLPQAMGLNRDHMIQSLQSVGLKPLIPQGSYFLIADISDFKSS  
MPDLPGAMDEPYDTRFAKWMIKNKGLSAIPVSTFYSPHHKDFDHYIRFCFVKDKATLQAMDKRLCSWKG  
EPQA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

## Restriction Sites:

SgfI-MluI

## Cloning Scheme:



ACCN: NM\_172404

ORF Size: 1275 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\\_172404.3](#)

RefSeq Size: 1944 bp

RefSeq ORF: 1275 bp

Locus ID: 70266

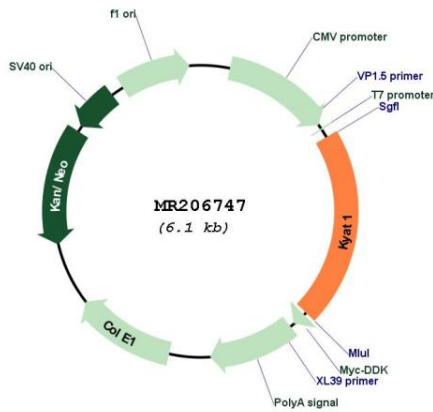
UniProt ID: [Q8BTY1](#)

Cytogenetics: 2 B

**MW:** 47.6 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]

**Product images:**



Circular map for MR206747