

Product datasheet for **MG206747**

Kyat1 (NM_172404) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kyat1 (NM_172404) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Kyat1
Synonyms:	2010009K05Rik; AI182306; Ccb11; Gtk; Kat1; Katl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206747 representing NM_172404 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCAAACAGCTGCAGGCTCGAAGGCTGGAAGGGATCGATCACAAACCCTGGGTGGAGTTTACCAGAC
TGTCCAAGGAGTATGATGTCGTGAACCTGGGCCAGGGCTCCCTGACTTCTCACCGCCAGACTTTGCTGT
GCAAGCTTTTCAGCAGGCTACCACTGGAACTTCATGCTCAACCAGTACACCTCAGCGTTTGGTTACCT
CCACTGACAAAGATCCTGGCAAGTTTCTTTGGCAAGCTGCTGGGACAGGAGATGGACCCACTCAAGAATG
TGCTGGTGACAGTGGGAGCCTATGGGGCCTTGTTCACAGCCTTTCAGGCCCTGGTGGATGAAGGAGACGA
GGTCATCATCATCGAACCTGCTTTTAATTGTTACGAACCCATGACAATGATGGCTGGAGGTGCGCCCTGTG
TTCGTGTCCCTGAGGCTGAGTCCTGCTCCTAAGGGCAGCTGGGATCCAGCAATGATTGGCAGCTGGACC
CCACAGAACTGGCCAGCAAGTTCACACCTCGCACCAAGATCCTGGTCTCAACACACCCAACAACCCCTCT
GGGAAAGGTATTCTAAGAAGGAGCTGGAGCTGGTGGCTGCACTGTGCCAACAGCATGATGTCCTGTGC
TTCTCTGATGAGGTCTACCAGTGGCTGGTCTATGATGGGCACCAGCACATCAGCATTGCCAGCCTCCCTG
GCATGTGGGAACGGACACTGACCATCGGCAGCGCAGGCAAAAGCTTCAGTGCCACTGGCTGGAAGGTGGG
CTGGGTCATGGTCCAGATAACATCATGAAGCACCTGCGGACTGTGCACCAGAACTCTATCTTTCAGTGC
CCCACCCAGGCCAGGCTGCAGTAGCCAGTGCCTTTGAGCGGGAGCAGCAACACTTTGGACAACCCAGCA
GTTACTTTTTGCAGCTGCCACAGGCCATGGGCCTGAACCGAGACCACATGATCCAGAGCCTGCAGTCAGT
GGGCCTCAAGCCCTTGATCCCCAGGGCAGCTACTTCTCATTGCAGACATCTCAGACTTCAAGAGCAGC
ATGCCCGACTGCCTGGTGTATGGATGAGCCCTATGATACACGCTTTGCCAAGTGGATGATCAAAAACA
AGGGGCTGTCAGCCATCCCTGTCTCCACCTTCTATAGCCAGCCCCATCATAAGGACTTTGACCACTACAT
CCGATTCTGTTTTGTGAAGGACAAGGCTACACTCCAGGCCATGGATAAGAGGCTGTGCAGCTGGAAAGGA
GAGCCCCAAGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206747 representing NM_172404
 Red=Cloning site Green=Tags(s)

MSKQLQARRLEGIDHNPWVEFTRLSEYDVVNLGQGFPDFSPPDFAVQAFQQATTGNFMLNQYTSAFGYPLTKILASFFGKLLGQEMDPLKNVLVTVGAYGALFTAFQALVDEGDEVIIEPAFNCYEPMTMAGGRPVFVSLRLSPAPKQQLGSSNDWQLDPTELASKFTPRTKILVLNTPNNPLGKVF SKKELELVAALCQQHDVLCFSDEVYQWL VYDGHQHISIASLPGMWERTLTIGSAGKSF SATGWKVGWVMGPDNIMKHLRTVHQNSIFHCPTQAQAAVAQCFEREQQHFQPPSSYFLQLPQAMGLNRDHMIQSLQSVGLKPLIPQGSYFLIADISDFKSSMPDLP GAMDEPYDTRFAKWKMIKNKGLSAIPVSTFY SQPHHKDFDHYIRFCVVKDKATLQAMDKRLCSWKGEPQA

TRTRPLE - GFP Tag - V

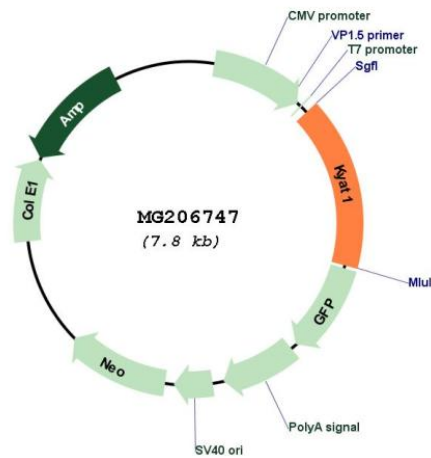
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_172404

ORF Size:	1272 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_172404.3
RefSeq Size:	1944 bp
RefSeq ORF:	1275 bp
Locus ID:	70266
UniProt ID:	Q8BTY1
Cytogenetics:	2 B
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]