

## Product datasheet for **MG207762**

### **KIhI24 (BC021407) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	KIhI24 (BC021407) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KIhI24
Synonyms:	1110046J11Rik; 4930429H24Rik; 6530402O20Rik; C85082
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG207762 representing BC021407  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGAATGCTTTCTGCAGTATGTGTATACTGGGAAGTGAAGATCACAAACAGAGAATGTCCAGTACCTCT  
 TCGAAACCTCCAGCCTCTTTAGATTAGTGTCTCCGTGATGCTTGTGCCAAGTTCTTAGAGGAACAGCT  
 TGATCCTTGCAATTGCCTCGAATCCAGCGCTTTGCCGACACCCACTCGCTCAAAACACTCTTCACAAAA  
 TGCAAGACCTTTGCATTACAGACTTTTGAGGATGTGTCCAGCATGAAGAATTTCTCGAGCTTGACAAAG  
 ATGAACTATTGATTATCTGCAGTGTGAAGTTGTTATTGGTAAAGAGGAGATGGTTTTTGAGCCGT  
 CATGCGCTGGGTCTACCGGGCGTTGACCTGCCAAGACCACTGTTACATGAGCTCCTGACACACGTCAGG  
 CTCTCTCTTGCATCCCACTACTTTGTTTCAGACAGTTGAAGTGGACCAGTTGATCCAGAATCCCCCG  
 AGTGTTCATCAGTTGCTGCACGAAGCAAGACGATACCACATACTGGCAATGAAATGATGTCCCAAGGAC  
 TAGGCCACGCAGGTCTACTGGCTATTAGAGGTGATAGTTGTGGTGGAGGCTGTGAACGAGTTGGAGGA  
 TTTAATCTCCATACACTGAGTGTATGATCCAGTAACAGGAGAATGGAAGTCCCTGGCCAAGCTCCAG  
 AATTTACCAAATCCGAGTATGCAGTCTGTGCACTGAGGAATGATATTCTTGTTCAGGTGGAAGAATCAA  
 CAGCCGTGATGTCTGGATTTATAATTCACAGTTAAATATCTGGATCAGAGTTGCTTCTCTAAATAAAGGC  
 AGATGGCGTCACAAAATGGCTGTCTTCTTGGTAAAGTGTATGTTGTTGGCGGCTATGATGGGCAAAACA  
 GGCTTAGCAGTGTGGAGTGTACGATTCCTTTTCAAATCGTTGGACAGAAGTTGCTCCACTTAAGGAAGC  
 AGTGAGCTCTCCTGCAGTGACAAGCTGTATAGGAAAATGTTTGTGATTGGTGGAGGACCTGATGATAAT  
 ACTTGTCTGATAAGGTCCAATCTTATGACCCAGAAAACCAATCTTGGCTACTTCGTGCAGCTATCCCTA  
 TCGCCAAGAGGTGCATCACAGCTGTCTTTAAACAACCTGATCTACGTAGCTGGTGGGCTGACCAAGGC  
 AGTGTATTGTTACGATCCCGTTGAAGACTACTGGATGCATGTACAAAACACATTCAGCCGGCAGGAAAAC  
 TGTGGTATGTCTGTTTGAATGGTAAAATCTATATCCTGGGTGGAAGACGGGAAAATGGAGAAGCCACAG  
 ATACTATTCTCTGTTACGATCCTGCGACAAGTATCATCACAGGAGTGGCTGCAATGCCAGGCCAGTGTC  
 CTACCACGGCTGTGTAATTCATAGATACAATGAGAAGTGCTTTAAGCTC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG207762 representing BC021407  
 Red=Cloning site Green=Tags(s)

MECFLLQYVYTGKVKITTENVQYLFETSSLFQISVLRDACAFLFEEQLDPCNCLGIQRFADTHSLKTLFTK  
 CKTFALQTFEDVSQHEEFLELDKDELIDYICDELIGKEEMVFEAVMRWVYRAVDLRRPLLHELLTHVR  
 LPLLHPNYFVQTVEVDQLIQNSPECYQLLHEARRYHILGNEMMSPRTRPRRSTGYSEIVVVGGCERVGG  
 FNLPTYTECYDPVTGEWKSALKLEPFTKSEYAVCALRNDILVSGGRINSRDVWIYNSQLNIWIRVASLNKG  
 RWRHKMAVLLGKVVYVGGYDGNRLSSVECYDSFSNRWTEVAPLKEAVSSPAVTSICIGKLFVIGGGPDDN  
 TCSDKVQSYDPETNSWLLRAAIPAIKRCITAVSLNLIYVAGGLTKAVYCYDPVEDYWMHVQNTFSRQEN  
 CGMSVCNGKIYILGGRRENGEATDITLCYDPATSIITGVAAMP RPVSYHGCVTIHRYNEKCFKL

**TRTRPLE** - GFP Tag - V

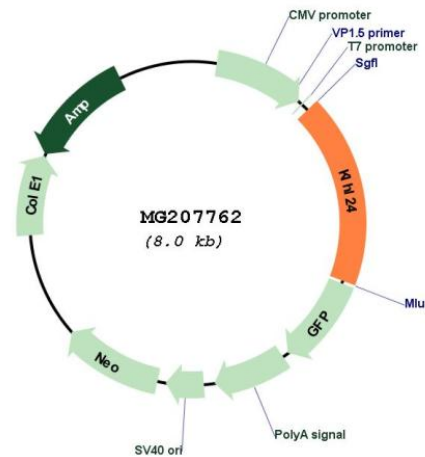
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC021407

ORF Size: 1454 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:** [BC021407](#), [AAH21407](#)

**RefSeq Size:** 1929 bp

**RefSeq ORF:** 1454 bp

**Locus ID:** 75785

**Cytogenetics:** 16 A3

**Gene Summary:** Controls KRT14 levels during keratinocytes differentiation (PubMed:27798626). As part of the BCR(KLHL24) E3 ubiquitin ligase complex, mediates ubiquitination of KRT14 (By similarity). Specifically reduces kainate receptor-mediated currents in hippocampal neurons, most probably by modulating channel properties (By similarity).[UniProtKB/Swiss-Prot Function]