

Product datasheet for **MR207762**

Klh124 (BC021407) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Klh124 (BC021407) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Klh124
Synonyms:	1110046J11Rik; 4930429H24Rik; 6530402O20Rik; C85082
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR207762 representing BC021407
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAATGCTTTCTGCAGTATGTGTATACTGGGAAGTGAAGATCACAAACAGAGAATGTCCAGTACCTCT
 TCGAAACCTCCAGCCTCTTTAGATTAGTGTCTCCGTGATGCTTGTGCCAAGTTCTTAGAGGAACAGCT
 TGATCCTTGCAATTGCCTCGAATCCAGCGCTTTGCCGACACCCACTCGCTCAAAACACTCTTCACAAAA
 TGCAAGACCTTTGCATTACAGACTTTTGAGGATGTGTCCAGCATGAAGAATTTCTCGAGCTTGACAAA
 ATGAACTATTGATTATCTGCAGTGTGAAGTTGTTATTGGTAAAGAGGAGATGGTTTTGAGGCCGT
 CATGCGCTGGGTCTACCGGGCGTTGACCTGCGAAGACCACTGTTACATGAGCTCCTGACACACGTCAGG
 CTTCTCTCTTGCATCCCACTACTTTGTTGACAGAGTGAAGTGGACCAGTTGATCCAGAATCCCCCG
 AGTGTATCAGTTGCTGCACGAAGCAAGACGATACCACATACTGGCAATGAAATGATGTCCCAAGGAC
 TAGGCCACGAGGTCTACTGGCTATTGAGAGTGTAGTTGTTGGTGGAGGCTGTGAACGAGTTGGAGGA
 TTTAATCTCCATACACTGAGTGTATGATCCAGTAACAGGAGAATGGAAGTCCCTGGCCAAGCTCCAG
 AATTTACCAATCCGAGTATGCAGTCTGTGCACTGAGGAATGATATTCTTGTTCAGGTGGAAGAATCAA
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 GGCTTAGCAGTGTGGAGTGTACGATTCCTTTTCAAATCGTTGGACAGAAGTTGCTCCACTTAAGGAAGC
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 TGTGGTATGTCTGTTTGAATGGTAAAATCTATATCCTGGGTGGAAGACGGGAAAATGGAGAAGCCACAG
 ATACTATTCTCTGTTACGATCCTGCGACAAGTATCATCACAGGAGTGGCTGCAATGCCAGGCCAGTGTCT
 CTACCACGGCTGTGTAATTCATAGATACAATGAGAAGTGCTTTAAGCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207762 representing BC021407
 Red=Cloning site Green=Tags(s)

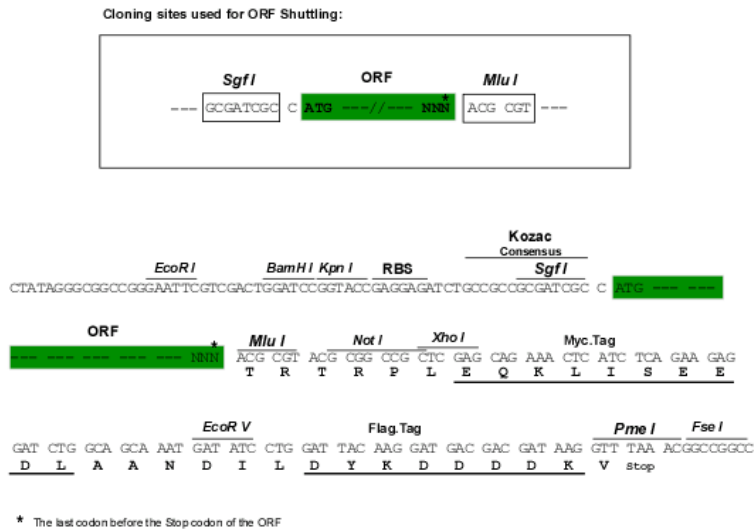
MECFLQYVYTGKVKITTENVQYLFETSSLFQISVLRDACAFLFEEQLDPCNCLGIQRFADTHSLKTLFTK
 CKTFALQTFEDVSQHEEFLELDKDELIDYICDELVIGKEEMVFEAVMRWVYRAVDLRRPLLHELLTHVR
 LPLLHPNYFVQTVEVDQLIQNSPECYQLLHEARRYHILGNEMMSRPRRSTGYSEVIVVGGCERVGG
 FNLPYTECYDPTGEWKSALKLEPFTKSEYAVCALRNDILVSGGRINSRDVWIYNSQLNIWIRVASLNKG
 RWRHKMAVLLGKVVYVGGYDGNRLSSVECYDSFSNRWTEVAPLKEAVSSPAVTSICIGKLFVIGGGPDDN
 TCSDKVQSYDPETNSWLLRAAIIAKRCITAVSLNLIYVAGGLTKAVYCYDPVEDYWMHVQNTFSRQEN
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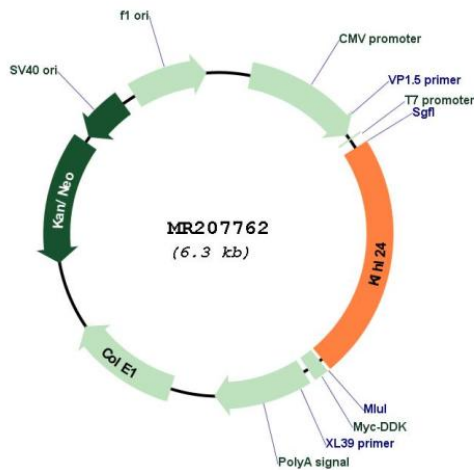
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC021407

ORF Size: 1452 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

MW: 70.7 kDa

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]