

Product datasheet for **MR221310**

KIHL4 (NM_172781) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	KIHL4
Synonyms:	B130014A11; C130018J01Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >MR221310 representing NM_172781
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGCGGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGTCAGTGTCCGGCAAGAAAGAGTTTGATGTGAAACAGATCCTGAGGCTGCGCTGGAGATGGTTTAGTC
 ATCCTTCTCAAGGATCGCCGAACACTGGAAGCTGCCTTCAGCAGGAAGGATATGAGCATAGAGGGACCCC
 GGTGCAGGGCAGGTTGAAGAACCACCTCACGGGACAGAAACGGACTGAAGAAAAGCAATAGTCCTGTCCAC
 CACGATATACTGACGCCAGTACCAGGACCAGCCCTACCCATCAAGAGTCTTCAGAATTGGCACCAAC
 AAAACGTGATAGTACATCTTCAAGCAATGAAGACACTCCTAAAGCCGTTCCAGAAGGAAATTTGCTCAA
 AGAGGCTTGTGAGAAGCGCTCACGAGATTTGGAGATGATGGGTGATGACAATATAGAAGATATGAGAGCA
 GGACCATGTGTTGAGGAACCTGAACAAATGACCACCAGTTCTAATGATCACTACCGTTCTCGAAGCCATG
 CAGATTACACTCTCTGAAAAATGGAAGCTATTTGAAAGAGAGAAAAGTGTGTGATGTGCTACTTATTGC
 TGGACCTCTTAAAAATCCAGCTCACCGATTGGTTCTCAGTGCTGTGCTGATTATTTTGTGCAATGTTT
 ACTAATGATGTGCTTGAAGCCAGACAAGAAGAGGTCAAAATAGAAGGAGTAGATCCAAATGCACTTAATT
 CTTTAGTGCAATGCTTATACAGGTGTGCTGCAACTGAGAGAAGACACCATTTGAAATTTGCTGTGACG
 AGCCTGTCTCTTACAGTGACTCAGGTCAATGATGTTTGTGCAATTTCTCATAAAGCACTTACCCT
 TCAAACTGCCTAGGATTCGCTCATTGGAGATGCACAGGGCTGTATGGAGCTTCAGAATGTGGCACATA
 AGTATGCCATGGAACACTTCATTGATGTAATAAAGAACCAAGAATTCCTGCTGCTTCCAGCTAATGAAAT
 ATCAAAACTTCTGTGTAGTGATGACATTAATGTGCTGATGAAGAAACAATTTTCCATGCTCTTATGCAG
 TGGGTAGGTCATGATGCTCAGGCTAGGCAACGAGATCTGGCAAAGCTGCTTTCTTACATTAGACTGCCAT
 TACTCTACCACAGTTGCTTGAGATCTGGAAGACAGTTCATTCTCAGTGGTAATCTGGAATGTCAGAA
 GCTACTAATGGAAGCTATGAAGTATCATCTCTTGCCTGAGAGAAGGTCCATGTTGCAAAGCCCTCGTACA
 AAGCCTAGAAAAATCAACTGTGGGGGCACTTTATGCTGTGGGAGGTATGGATGCTGCTAAAGGCACCACTA
 CAATTGAGAAGTATGACCTCCGAACCAACAGTTGGATCCACATTGGCACTATGAGTGGTCGTAGACTTCA
 ATTTGGAGTGGCAGTTGTTGATAATAAACTTTACGTTGTGGGAGGAAGAGATGGCTTAAAACTTTGAAT
 ACTGTGGAATGTTTCAATCCGTTACTAAAACCTGGGTTGTAATGCCTCCTATGTCCACACATAGGCACG
 GGCTAGGCGTAGCCACACTTGAAGGACCAATGTATGCGGTTGGAGGTACGATGGATGGAGCTATCTAAA
 CACTGTAGAAAGATGGGACCCTGATGGCCGTAGTGAATTATGTGGCCAGCATGTCAACTCCAAGAAGC
 ACAGTTGGAGTTGTTGCATTAACAATAGGCTGTATGCTATTGGTGGACGTGATGGAAGTTCTGTCTTA
 AGTCCATGGAATCTTTGACCCGCATACTAACAAGTGGAGTCTGTGTGCCCCGATGTCCAAAGACGTGG
 AGGTGTAGGAGTAGCAACACAAATGGATACTTGTATGTTGTAGGGGGTCATGATGCCCTGCTCCTAAT
 CATTGCTCCAGGCTTTCTGACTGCGTGGAAGATACGACCCAAAAGGCGATTTCATGGTCAACTGTGGCAC
 CTTTGAGTGTTCCTCGAGATGCTGTTGCAGTGTGCCCCCTGGAGACAACTCTACGTGGTTGGCGGATA
 TGATGGTCATACTTACTTGAATACCGTTGAGTCGTATGATGCTCAGAAAGACGAATGGAAGAGGAAGTC
 CCTGTGAACATTGGAAGAGCTGGAGCATGTGTTGTTGTGTAAGCTGCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR221310 representing NM_172781

Red=Cloning site Green=Tags(s)

MSVSGKKEFDVKQILRLRWRFSHPSQGSPTGSLQQEGYEHRGTPVQGRLLKNHSRDRNGLKKSNSPVH
HDILTPVPGPAPTHQRLVNQHWQNVIVHLQANEDTPKAVPEGNLLKEACEKRSDLEMMGDDNIEDMRA
GPCVEEPEQMTTSSNDHYRSRSHADYTLCKMESYLKERKLCVDLLIAGLPKIPAHRLVLSAVSDYFAAMF
TNDVLEARQEEVKIEGVDPNALNSLVQYAYTGLQLREDTIENTLLSAACLLQLTQVIDCCNFLIKQLHP
SNCLGIRSFQDAQGMELQNVAHKYAMEHFIDVIKNQEFFLLPANEISKLLCSDDINVPDEETIFHALMQ
WVGHDAQARQDLAKLLSYRLPLLSPQLLADLENSFFSGNLEQKLLMEAMKYHLLPERRSMLQSPRT
KPRKSTVGALYAVGGMDAAKGTITIEKYDLRTNSWIHIGTMSGRRLLQFVAVVDNKL YVVGGRDGLKTLN
TVECFNPVTKTWVMPMSTHRHGLGVATLEGPYAVGGHDGWSYLNTERWDPDGRQWNYVASMSTPRS
TVGGVALLNRLYAIKGRDGSSCLKSMEFFDPHTNKWSLCAPMSKRRGGVGVATHNGYL YVVGHDAPAPN
HCSGLSDCVERYPKGDSSWSTVAPLSVPRDAVAVCPLGDKLYVVGGYDGHTYLTNVESYDAQDEWKEEV
PVNIGRAGACVYVVKLO

TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Chromatograms:

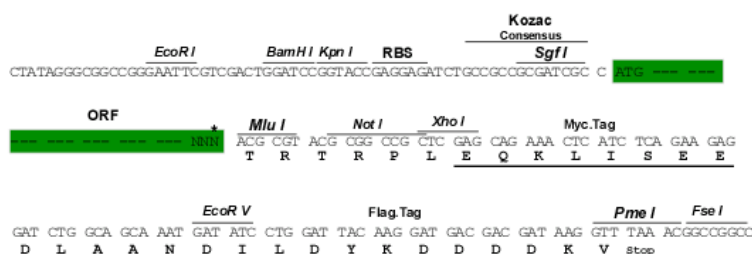
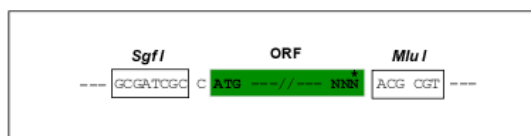
https://cdn.origene.com/chromatograms/mm9065_a09.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN:

NM_172781

ORF Size:

2151 bp

OTI Disclaimer:

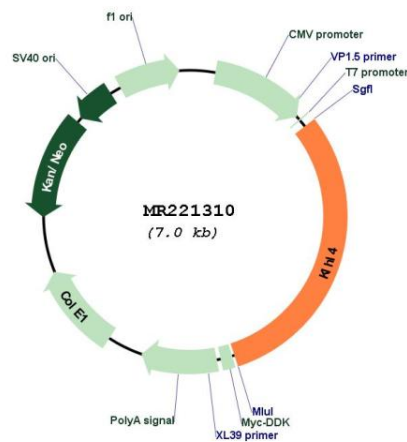
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_172781.2, NP_766369.2</u>
RefSeq Size:	3884 bp
RefSeq ORF:	2154 bp
Locus ID:	237010
Cytogenetics:	X E1
MW:	80 kDa

Product images:



Circular map for MR221310