

Product datasheet for MR205137

Klc4 (BC005746) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Klc4 (BC005746) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Klc4
Synonyms:	1200014P03Rik; AA408085; AW146303; Kns18
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205137 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCAGGCTTGGTGTGGGGCAGCGGGATGAGCCTGCAGGGCACCGGCTCAGTCAAGAGGAGATCTTGG
GCAGCACCAAGGTGGTGAAGGAGGCTGGAGGCCCTACACAGTGAACATCAGGCAGTGTGCAGAGCCT
GTCCACACCATTGAGTGTCTGCAACAGGGAGGCCATGAGGAAGGACTGGTCCATGAGAAGGCCCGGAG
CTGCGCGGTCTATGGAGAACATCGAGCTGGGGCTGAGCGAGGCCAGGTGATGTGGCGCTGGCTAGCC
ACCTGAGCACAGTGGAGTCTGAGAAGCAGAAGCTGCGAGCCCAAGTGGCGCGCTATGCCAGGAGAAATCA
GTGGCTCCGGGATGAGCTGGCGGCACTCAGCAGCGCCTGCAGCGCAGCGAGCAGGCTGTGGCTCAGCTA
GAGGAAGAGAAGAAGCACCTGGAGTTCTGCGGCAGCTGCGGCAGTATGATGAGGACGGCCACGGCATGG
AGGAGAAGGAGGGAGAGGCCACCAAGATTCTCTGGATGACCTGTTCCCAATGAGGAGGAGGAGGACTC
CGGCAACGACTTGTCCCGTGGTCAGGGTGTGCAGCGGCCAGCAGGGTGGATATGAGATCCCAGCAAGG
TTGCGGACCTGCACAACCTGGTCCAGTATGCAGCTCAGGGTGCCTATGAGGTGGCGGTGCCACTCT
GCAAGCAAGCGCTAGAGGACCTGGAGCGCACATCTGGCCGAGGTACCCTGATGTGGCTACCATGCTCAA
CATCCTGGCTCTGGTGTACCGGGACCAGAATAAGTACAAGGAGGCTGCTCATCTGCTGAACGATGCTCTC
AGCATCCGGGAGAGCACCTGGCCGGGACCACCCAGCCGTGGCTGCCACACTCAACAATCTGGCTCTTC
TGTGAGTTTGGGCTGGCCAACCTGGGCTGCCTTGCCCTGGTCTCTTTACCTCTGCTGCCTCACTACAG
GTCCACATATTTCACTGTTTCTTAATAAATGAACCAGGTAACATTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205137 protein sequence
Red=Cloning site Green=Tags(s)

MSGLVLGQRDEPAGHRLSQEEILGSTKVVVSQGLEALHSEHQAVLQSLSHTIECLQQGGHEEGLVHEKARQ
 LRRSMENIELGLSEAQVMLALASHLSTVESEKQLRAQVRRRCQENQWLRDELAGTQQRLLQRSEQAVAQL
 EEEKKHLEFLRQLRQYDEDDGHGMEEKEGEATKDSLDDLFPNEEEEDSGNDLSRGQAAAAAQGGYEIPAR
 LRTLHNLVIQYAAQGRYEVAVPLCKQALEDLERTSGRGHPDVATMLNILALVYRDQNKYKEAAHLLNDAL
 SIRESTLGRDHPAVAATLNNLALLSVWGWPTGLPCPLFYPLLPHYRSTYFTVSLINEPGNI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: BC005746

ORF Size: 1026 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: [BC005746](#), [AAH05746](#)

RefSeq Size: 1138 bp

RefSeq ORF: 1028 bp

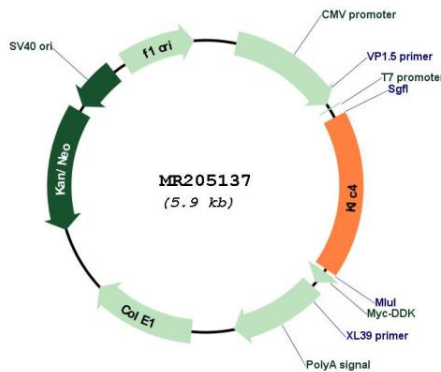
Locus ID: 74764

Cytogenetics: 17 C

MW: 38.2 kDa

Gene Summary: Kinesin is a microtubule-associated force-producing protein that may play a role in organelle transport. The light chain may function in coupling of cargo to the heavy chain or in the modulation of its ATPase activity (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205137