

Product datasheet for **RR206235**

Klc4 (NM_001009601) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Klc4 (NM_001009601) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Klc4
Synonyms:	1200014p03rik; Knsl8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR206235 representing NM_001009601
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGTCAGGCCTGGTATTGGGGCAGCGGGATGAGCCTGCAGGGCACCGGCTCAGTCAAGAGGAGATCTTGG
 GCAGTACCAGGTTGGTGAGCCAAGGGCTGGAGTCCCTACACAGTGAGCACCAGGCTGTGCTACAGAGCCT
 GTCCACACCATCGAGTGTCTGCAACAGGGAGGCCATGAGGAAGGACTGGTGCATGAGAAAGCCCGCAG
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 ACCTGAGCACAGTGGAGTCTGAGAAGCAGAAGCTGCGGGCCCAAGTACGGCGGCTCTGCCAGGAGAATCA
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 GTGCTTCTGAGAAGCAGTGAAGTCTGAGTGGTGAAGTCCAGGCACTGAGCCTCGGCCTCCAGCAGCA
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Protein Sequence:

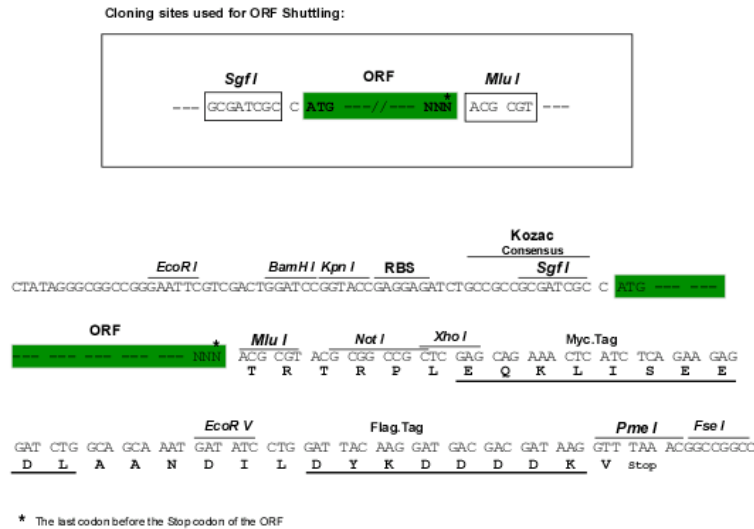
>RR206235 representing NM_001009601
 Red=Cloning site Green=Tags(s)

MSGLVLGQRDEPAGHRLSQEEILGSTRVLSQGLSLHSEHQAVLQSLSHTIECLQQGGHEEGLVHEKARQ
 LRRSMENIELGLSEAQVMLALASHLSTVESEKQKLRAQVRRLCQENQWLRDELQQLRQSEQAVAQL
 EEEKKHLEFLRQLRQYDEDEGHSMEEKEGDASKDSLDDLPNNEEDSSNDLSRGQAAAAAQGGYEIPAR
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 HKPIWMHAEEREEMSRSSRESGTPYAEYGGWYKACRVSSPTVNTTLRNLGALYRRQGGKLEAAETLEECA
 LRSRKQGTDPISQTKVAELLGEGDGRKTMQEGPDSVKFEGGEDASVAVESWGDGSGTLQRSGSLGKIRD
 VLRRSELLVRKLQGTETPRSSNMKRAASLNYLNQPNAPLQTSRGLSASTVDLSSSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001009601

ORF Size: 1857 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: [NM_001009601.1](#), [NP_001009601.1](#)

RefSeq Size: 2590 bp

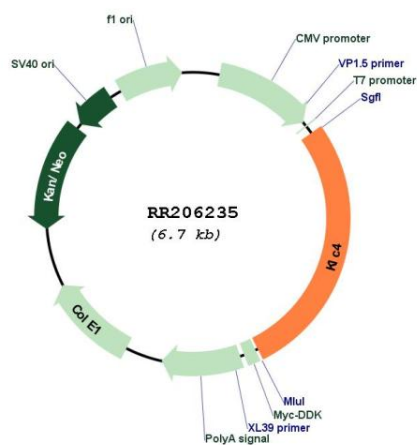
RefSeq ORF: 1860 bp

Locus ID: 316226

UniProt ID: [Q5PQM2](#)

Cytogenetics:	9q12
MW:	69 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 RR206235