

Product datasheet for **RR208035**

Klc3 (NM_138520) Rat Tagged ORF Clone

Product data:

| | |
|--------------------|---------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | Klc3 (NM_138520) Rat Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Klc3 |
| Synonyms: | Klct |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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ORF Nucleotide Sequence:

>RR208035 representing NM_138520
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTGTGCAGGTGGCAGCCCCTGGAAGCACAGGGCTGGGCCAGAACCCGGAGGAGCTGG
 TCGCGCAGACGCGACAGTTGTACAGGGACTGGAGGCCCTGCGGGCCGAGCACCATAGTCTGGCTGGGCA
 CTTGGCGGAGGCCCTGGCTGGACCAGGCCCTGTAGCGGGTGTAGAACTGCTGGAAGAGAAGCAACAGGTG
 GTGAACCACTCCCTGGAGGCCATTGAGCTGGGACTGGGTGAGGCCAGGTGCTGCTGGCCCTGTCTGCAC
 ACGTGGGTGTGTTGGAGGCTGAGAAGCAGAGGCTACGGGCACAGGCACGGAGGCTAGCCCAAGAGAACAC
 ATGGCTTCGAGAGGAGCTGGAGGAGACACAGGGCAGCTGCGGGCCAGTGAGGAGGCTGTGGCCAGCTG
 GAAGAGGAGAAAAGCCACCTTCAGTTCTGGGGCAGCTGAGGCAGTATGACCCGCCGAGGAGAGCCAGA
 GGCCGGATTCCCGCCTCGCCGAGACAGCTGGCTTCTCTTCCCCAGTGAAGAGGAGGAAAAGAAAGG
 TCCTGAGGCAGCAGGAGCAGCAGCAGCGCAGCAGGGTGGCTATGAGATCCAGATCGTCTACGGACTCTG
 CACAACGTGGTATCCAGTATGCTAGCCAGTCCGCTATGAGGTGGCAATCCCGTGTGTCGCCAGGCAT
 TGGAGGACCTGGTGGGAGCTCAGGCCACTTCCACCCTGACGTACCCACCATGGTCGACTTCTTGGCACT
 TGTGTACAGGGACCAGAACAAAGTACAAGGAGGCCACGGAGTTTCTTACGACGCCCTGCAGATCCGGGAA
 CAGACGCTGGGTCTGAACACCTGCAGTGGCCGCCACCTCAACAACCTGGCAGTCTTTACGGAAAAC
 GTGGCCGTTACCGGGAGGCAGAACCCCTCTGCCAGCGTCTGAGAGTCCGTGAGAAGTCTGGGTGC
 TGACCACCTGATGTGGCCAAGCAGCTCAACAACCTGGCCCTGCTGTGCCAGAACAGGGCAAGTTTCAG
 GATGTGGAGCGGCACTATGCAAGGGCCCTGAGTATCTACGAGGCCCTGGGGGACCACAAGACCCAAATG
 TGGCTAAGATCAAGAACAACCTGGCCTCGCCTACCTGAAGCAGAACAAAGTATCAGCAGGCAGAGGAGT
 ATACAAGGAGATCCTCAGCCAGGAGGCCCTGCCTGCCCGCTTGGAGCCCCCAGGGAGGCACAGCAGGT
 GAAGCACAAACAGCAGGTCTACGAGGAGCAGTTCCTTCTTAAGCTCAGAGAGTCCATCCGGCGTGGAA
 GTGAGAAGCTGGTCTCCCGCCTCCGAGGGGAGAGCATGGCAGGGGCTGCAGGGATGAAGAGAGCCATGTC
 ACTCAATATGCTGAACGTCGATGGTCCAAGGGCTGCCAGGATGCAGCTCTCAACCCAGCACCTGAATGAG
 GCCTCTCGGACCCTCAGCGCCAGCACGCAGGATTTGAGCCCGCGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR208035 representing NM_138520
 Red=Cloning site Green=Tags(s)

MSVQVAAPGSTGLGPERLNPEELVRQTRQVVQGLEALRAEHSLAGHLAEALAGPGPVAGVELLEEQV
 VNHSLEAIELGLGEAQVLLALSAHVGVLEAEKQRLRAQARRLAQENTWLRREELEETQRRLRASEEAVAQ
 EEEKSHLQFLGQLRQYDPPEESQRPDSPRRDLSLASFPESEEEKKGPAAAGAAAQGGYEIPDRLRTL
 HNVVIQYASHVRYEVAIPLCRQALEDLVRSSGHFHPDVPTMVDLALVYRDQNKYKEATEFLHDALQIRE
 QTLGPEHPAVAATLNNLAVLYGKRGYREAEPLCQRALEIREKVLGADHPDVAKQLNNLALLCQNQGKFK
 DVERHYARALSIYEALGGPQDPNVAKIKNNLASAYLKQNKYQAEELYKEILSQEALPAPLGAPQGGTAG
 EAQQQVLRSSSFKLRRESIRRGSEKLVSRLRGEMAGAAGMKRAMSLNMLNVDGPRAARMQLSTQHLINE
 ASRTLASASTQDLSPR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

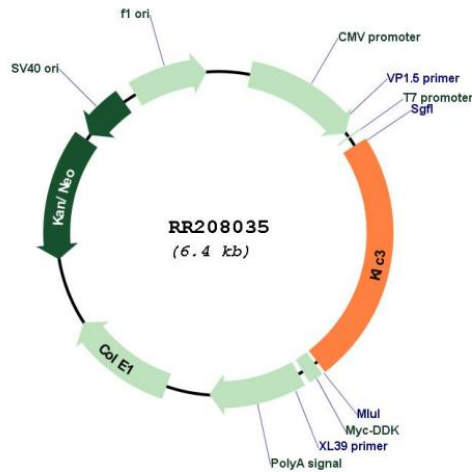
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_138520

ORF Size: 1515 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_138520.1](#), [NP_612529.1](#)

RefSeq Size: 1697 bp

RefSeq ORF: 1518 bp

Locus ID: 171549

UniProt ID: [Q68G30](#)

Cytogenetics: 1q21

MW: 55.9 kDa

Gene Summary: light chain of kinesin; may be involved in cargo binding and regulation of kinesin activity [RGD, Feb 2006]