

Product datasheet for **RR200202**

Klc1 (NM_001081973) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Klc1 (NM_001081973) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Klc1
Synonyms:	Kns2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR200202 representing NM_001081973
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCATGACAACATGTCCACAATGGTGTACATGAAGGAAGAGAAGCTGGAGAAGCTTACGCAGGATGAAA
 TCATTTCTAAGACCAAGCAGGTGATCCAGGGGCTGGAGGCCCTGAAGAATGAGCACAACCTCATCCTGCA
 GAGTCTGCTGGAGACGCTGAAGTCTTGAAGAAGGACGATGAGAGCAACCTGGTGGAGGAGAAGTCCAGC
 ATGATCCGCAAGTCTTGGAGATGCTGGAGCTCGGCTGAGCGAGGCGCAGGTGATGATGGCCCTGTCTA
 ATCACCTGAATGCCGTGGAGTCCGAGAAGCAGAAGCTCCGAGCTCAGTTTCGACGCTGTGCCAGGAGAA
 CCAGTGGCTGCGGGATGAACTGGCCAACACACAGCAGAAGTTACAGAAGAGCGAGCAGTCCGTGGCTCAG
 CTGGAGGAGGAGAAGAAGCACCTGGAGTTCATGAACCAGCTGAAGAAATACGACGACGACATCTCTCCCT
 CGGAAGACAAAGACTCTGATTCTTCAAAGAGCCGTTGGATGACCTCTTCCGAATGATGAGGATGACCC
 AGGACAAGGAATCCAGCAGCAACACAGCAGTGTGCGGCCGCCGCGCCAGCAGGGCGGCTACGAGATCCCT
 GCCCGGCTGCGCAGCTCCACAACCTGGTATCCAGTATGCCTCGCAGGGGCGTTACGAGGTGGCGGTGC
 CACTCTGCAAGCAGGCCCTGGAGGACCTGGAGAAGACTTCCGGCCACGACCACCTGATGTGGCCACCAT
 GCTCAACATCCTGGCCCTGGTGTACAGGGATCAGAACAAGTATAAAGACGCAGCAAACTCCTGAACGAT
 GCCCTGGCTATCCGTGAGAAAACCTGGGCCGAGATCACCTGCGGTGGCTGCGACCCTCAACAACCTAG
 CAGTGTGTACGGTAAGCGTGGCAAGTACAAGAGGCCGAGCCGCTGTGCAAACGGGCCCTGGAGATCAG
 GGAGAAGTCTGGGAAAGGATCACCTGATGTTGCTAAGCAACTAAATAATCTGGCCTTGTGTGCCAG
 AACCGGGCAAGTACGAGGAGTGGAGTATTACTACCAGAGGGCCCTGGAGATCTACCAGACGAAGCTCG
 GACCCGATGATCCCAACGTGGCCAAGACGAAGAATAACCTGGCTTCTCTGTTATCTGAAACAAGGAAAGT
 CAAACAAGCAGAAACATTGTACAAGGAGATTCTACCCGCGCACATGAACGGGAGTTGGATCTGTGGAT
 GATGAAAACAAGCCATATGGATGCACGCGGAGGAGAGAGAGGAGTGCAAAGGAAAGCAGAAGGACGGGT
 CGTCTTTTGGAGAGTATGGCGGCTGGTATAAGGCCTGCAAAGTGGACAGTCCCACCGTCACAACCACCTT
 GAAAAACCTGGGAGCACTTACCGCCGCCAGGGGAAGTTTGAAGCTGCGGAGACTGGAGGAAGCTGCC
 CTGAGGTACGTAAGCAGGCTTGTACAATGTTCAACAACAGAGAGTGGCTGAAGTGCTAAATGACCCTG
 AGAACGTGGAGAAGCGGAGGAGCCGGGAGAGCCTCAATGTGGACGTGGTCAAGTACGAGAGTGGCCCTGA
 CGGAGGGGAGGAAATGAGAAAGATGAAGCTCGGGCTGGTTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR200202 representing NM_001081973
 Red=Cloning site Green=Tags(s)

MHDNMSTMVYMKEEKLEKLTQDEIISKTKQVIQGLEALKNEHNSILQSLLETLKCLKKDDSNLVEEKSS
 MIRKSLEMLELGLSEAQVMMALSNHLNAVESEKQKLRAQVRRLCQENQWLDELANTQQLKQSEQSVAQ
 LEEKKHLEFMNQLKKYDDDISPSEDKSDSSKEPLDDLFPNEDDPGGIQQQHSAAAAAQGGYEIP
 ARLRTLHNLVIQYASQGRYEVAVPLCKQALEDEKTSGHDPDVATMLNIALVYRDQNKYKDAANLLND
 ALAIREKTLGRDHPAVAATLNNLAVLYGKRKYKEAEPLCKRALEIREKVLGKDHPDVAQQLNNLALLCQ
 NQKYEEVEYYYQRALEIYQTKLGPDDPNVAKTKNNLASCYLKQGKFKQAETLYKEILTRAHEREFGSVD
 DENKPIWMHAEEERECKGKQKDGSSFGYGGWYKACKVDSPTVTTLKNL GALYRRQGFEEAETLEEA
 LRSRKQGLDNVHKQRVAEVLNDPENVEKRRSRESLNVDVVKYESGPDGGEEMRKMMLGLVK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

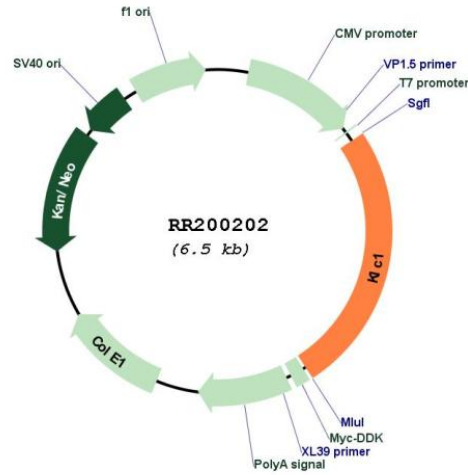
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_001081973
ORF Size:	1653 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:	<ol style="list-style-type: none">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_001081973.1 , NP_001075442.1
RefSeq Size:	1917 bp
RefSeq ORF:	1656 bp
Locus ID:	171041
UniProt ID:	P37285
Cytogenetics:	6q32
MW:	62.8 kDa
Gene Summary:	light chain subunit of microtubule-stimulated ATPase [RGD, Feb 2006]