

Product datasheet for **MR209299**

Klc2 (NM_008451) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Klc2 (NM_008451) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Klc2
Synonyms:	8030455F02Rik; AW212649; KLC-2; KLC 2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209299 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCACGATGGTGCTTCTCGAGAGGAGAAGCTGAGTCAGGACGAGATAGTGCTGGCCACCAAGCGCG
 TGATCCAGGGTTTAGAGACCCTGAGAGGGGAGCATCGTGCCCTGCTAGCTCCCCTAGCTTCTCATGAAGC
 AGGCGAGGCCGAGCCGGGCTCACAGGAGCGCTGCCTCCTCTGCGCCGCTCCCTGGAGGCCATCGAGCTG
 GGGCTTGGGGAGGCTCAGGTGATCCTGGCATTATCAAGCCATCTGGGGGCTGTGGAGTCAGAGAAGCAGA
 AGCTGCGGGCTCAGGTGCGGCGCCTGGTACAAGAGAACCAGTGGTTGCGTGAGGAGCTGGCAGGGACACA
 GCAGAAGCTGCAGCGCAGTGAACAGGCGGTGGCTCAGCTGGAGGAAGAGAAGCAGCACCTGCTATTCATG
 AGTCAGATCCGAAAGCTGGATGAGGATGCTTCCCCAAATGAGGAGAAGGGTGATGTCCCCAAGACTCCC
 TGGATGACCTGTTTCCAATGAAGATGAACAGAGCCCAGCCCCAGCCCTGGAGGAGGAGATGTAGCTGC
 ACAGCATGGGGGCTATGAGATCCAGCAGCGCTACGGACCCTCCACAACCTGGTAATCCAGTATGCTTCA
 CAAGGCCGCTATGAGGTGGCCGTGCCCTCTGCAAGCAGGCACTGGAAGATTTGGAGAAGACATCAGGCC
 ATGACCACCCTGATGTGGCCACCATGCTGAACATCCTGGCACTGGTTTATCGGGACCAGAATAAGTACAA
 GGATGCTGCTCACCTGCTCAATGATGCCCTGGCTATCCGGGAAAAGACTGGGCAAGGACCACCCAGCT
 GTGGCTGCGACCTCAACAATCTGGCTGTTCTCTACGGCAAACGGGGCAAGTACAAGAGGCTGAGCCAC
 TGTGCAAGAGAGCACTGGAGATCCGGGAGAAGTCTGGGCAAGTTTACCCAGATGTGGCAAGCAGCT
 CAGCAACCTGGCCTTGTGTGCCAGAACCAGGGCAAAGCTGAGGAGGTGGAATACTACTACCGGAGAGCC
 CTGGAGATCTATGCCACACGCTTGGTCTGATGACCCCAATGTGGCGAAGACCAAGAACAACCTGGCTT
 CCTGCTACCTGAAACAGGGCAAGTACCAGGATGCAGAGACCCTGTACAAGGAGATCCTTACCCGTGCGCA
 CGAGAAGGAGTTTGGCTCAGTCAATGGAGAGAACAAGCCCATCTGGATGCACGCAGAGGAGCGCGAGGAG
 AGCAAGGATAAGCGCCGGGACAGCGCCCTATGGGGAGTATGGCAGCTGGTACAAGCCTGTAAGTTG
 ACAGTCCACAGTCAACACCACTCTGCGAAGCTTGGGCGCCCTGTACCGCGCCAGGGCAAGCTGGAAGC
 CGCACACACACTGGAAGACTGTGCCAGCCGAGCCGAAACAGGGCCTGGATCCTGCCAGCCAGACCAAG
 GTGGTAGAACTGTTAAAAGATGGCAGTGGTGGACGAGGACACCGCCGTGGCAGCAGAGATGTGGTGGGC
 CTCAATCTGAGTCGGACCTGGAGGAGTCAGGGCCTGCAGCTGAGTGGAGTGGGACGGCAGCGGCTCTCT
 GCGGCGCAGTGGCTCCTTTGGAAAGCTCCGGGATGCTCTGAGACGCAGCAGTGAAGTCTGGTGAAGAG
 CTGACGGGAGGGGCCACAGGAGCCCCCTAACTTAGGATGAAGAGGGCCAGCTCTTAACTTCTTA
 ACAAGAGTGTGGAAGAGCCAGTCCAGCCTGGAGGCACGGGTCTTCTGACAGCCGCACTTTGAGCTCCAG
 CTCATGGACCTCTCTCGAAGAAGCTCCCTGGTGGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

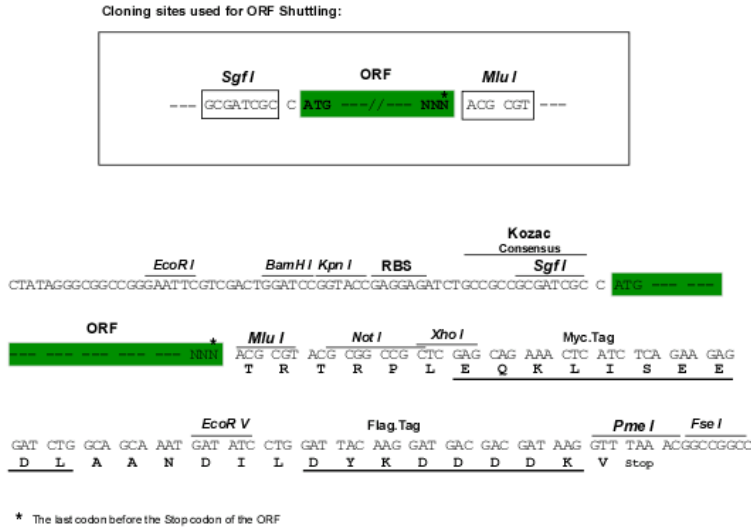
>MR209299 protein sequence
 Red=Cloning site Green=Tags(s)

MATMVLPREEKLSQDEIVLGTKAVIQGLETLRGEHRALLAPLASHEAGEAEPGSQERCLLLRRSLEAIEL
 GLGEAQVILALSSHLGAVESEKQKLRAQVRRLVQENQWLREELAGTQKLRSEQAVAQLEEEKQHLLFM
 SQIRKLEDEASPNEEKGDVPKDSLDDLFPNEDEQSPAPSPGGDVAAQHGGYEIPARLRTLHNLVIQYAS
 QGRYEVAVPLCKQALDLEKTSGHDHPDVATMLNILALVYRDQNKYKDAHLLNDALAIREKTLGKDHPA
 VAATLNNLAVLYGKRGKYKEAEPLCKRALEIREKVLGKFHPDVAKQLSNLALLCQNQGKAEVEVEYYRRA
 LEIYATRLGPDDPNVAKTKNNLASCYLKQGYQDAETLYKEILTRAHEKEFGSVNGENKPIWMHAEREER
 SKDKRRDSAPYGEYGSWYKACKVDSPTVNTTLRSLGALYRRQGKLEAAHTLEDCAASRSRQGLDPASQTK
 VVELLKDGSGRGHRGRDVRVAGPQSESDLEESGPAAEWSGDGSGSLRRSGSFGKLRDALRRSSEMLVRK
 LQGGGPQEPNMRKRASSLNFLNKSVEEPPVQGGTGLSDSRTLSSSSMDLRRSSSLVG

TRTRPLEQKLISEEDLAANDILDYKDDDDK**V**

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_008451

ORF Size: 1860 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_008451.3](#)

RefSeq Size: 3032 bp

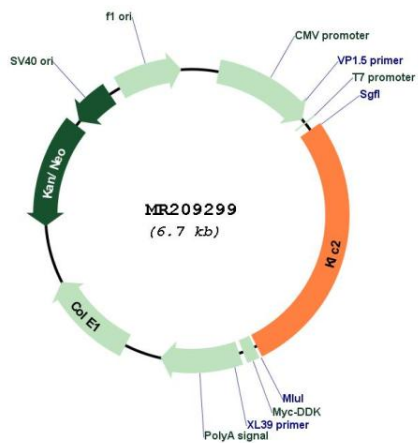
RefSeq ORF: 1860 bp

Locus ID: 16594

Cytogenetics: 19 4.25 cM

MW: 68.4 kDa

Product images:



Circular map for MR209299