

Product datasheet for **MR203964**

1110004E09Rik (NM_026502) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	1110004E09Rik (NM_026502) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	1110004E09Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203964 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTTGTGCTGCACGTGAAGAGAGGGCAGCAGAGCCAGTTCTTACTGCAGGGCCTCCGGGAGCACGGAGC
TGAAGAGCTCACGGCGCAGGTGGCCCGCGTCTACAACGGCGGCTGAAGGTGCACCGGCTCTGCTCAGA
GATGGAGGAGCTGGCAGAACACGGTGTCTTTCTGCACCCTAATATGCAAGGGCTGACTGATGAGCAGATC
GAAGAGCTGAAACTGAAGGACGAGTGGGGGAGAAGTGTGTGCCAGTGGAGGGTCTGTTTTACGAAGG
ACGAGATCGGGCGGAGGAACGGCAAGCTCCAAATGAGAAAATGAAGCAGTTTTTAAAGAAGACCGTGA
AGAAGCCAAGGCGATAGTGTCTAAGAAACAAGTAGAAGCTGGAGTCTTTGTTACTATGGAGATGGTGAAA
GATGCCTTGACCAGCTTCGAGGTGCGGTCATGATCGTTTATCCCATGGGGCTGCCACCATACGATCCTA
TCCGGATGGAATTTGAAAATAAAGAAGATTTGTCAGGAACTCAGGCAGCCCTCGAAGTCATCCAGGAGTC
GGAGGCACAGCTGTGGTGGGCCCAAGGAGCTGAGAAGAACAAGAAGCTTTCTGACTATGTGGGGAAA
AATGAGAAAACAAAATCATCGTCAAGATCCAGCAGAGAGGGCAGGGTGGCCAGCCCGGGAGCCTGTCA
TCAGCAGTGAAGAACAAGCAGCTGATGCTGTTCTACCACAGAAGACAGGAGGAGCTCAAGAACTGGA
AGAGAATGACGATGACTCCTGTCTGAATCCCCGTGGGCTGACAACACGGCTTTGAAAAGACATTTTCAT
GGCGTAAAAGACATAAAGTGGCGGCCAGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203964 protein sequence
 Red=Cloning site Green=Tags(s)

MVVLHVKRGDESQFLQAPGSTELEELTAQVARVYNGRLKVHRLCSEMEELAEHGVFLHPNMQGLTDEQI
 EELKCLKDEWGEKCVPSGGSVFTKDEIGRRNGQAPNEKMKQVLKKTVEEAKAIVSKKQVEAGVFVTEMVK
 DALDQLRGAVMIYVPMGLPPYDPIRMEFENKEDLSGTQAALVIEQSESQLWAAKELRRTKKLSDYVVGK
 NEKTKIIVKIQQRGQAPAREPVISSEEHKQLMLFYHRRQEELKLEENDDDDSLNSPWADNTALKRHFH
 GVKDIKWRPR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_026502

ORF Size: 873 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_026502.1](#), [NP_080778.1](#)

RefSeq Size: 1163 bp

RefSeq ORF: 873 bp

Locus ID: 68001

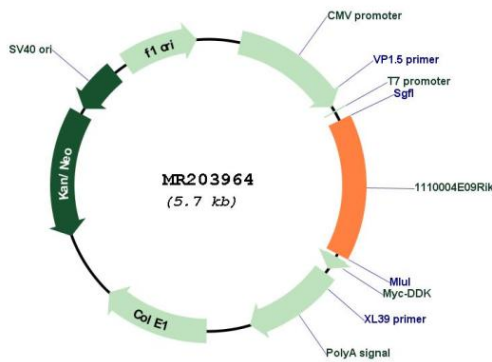
UniProt ID: [Q8BL95](#)

Cytogenetics: 16 C3.3

MW: 33.2 kDa

Gene Summary: Plays a role in motile cilium function, possibly by acting on outer dynein arm assembly. Seems to be important for initiation rather than maintenance of cilium motility. Required for correct positioning of cilia at the apical cell surface, suggesting an additional role in the planar cell polarity (PCP) pathway. May suppress canonical Wnt signaling activity.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203964