

Product datasheet for **RR206406**

Mier2 (NM_001108737) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mier2 (NM_001108737) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Mier2
Synonyms: RGD1307278
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RR206406 representing NM_001108737
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGAGGCCCTCTCTGGAGAGGCAGAGTCCTCGTGTGGCCTCCTGCCTTGTTCACAGCCTTTGTC
 CTCGGGAGCCCAGCTTGCAGACTACAGCAGTGGTCCATGGGCTCTGCCGACCATCAGTTTCACCTCAC
 TGAGCTCTGACACAGAAGTACAGCCTCAAGAAGGCTGTGCCGAGGCCCTGCAGGGTCTGACAGGCCG
 GAGGAGGAGCTGGACAAGGACTTCATCGACCAGAGCAGTACATGCCCTGGATGAGCTGCTCGCACTGT
 ACGGGTACGAGTGTGAGAGCCATCTCTGAGCAGGAGAGCGAGGGCGGTGACACGGCTCCACCCCTCCC
 AGACATGACCTTGACAAGGAGCAGATAGCCAAGGACTTGCTTTCTGGGAAGAAGAGGAAGAAACACAG
 TCTCCGCTGACGACCTCACCCATCTGTACCTCCCATGAGGCCCTCGGACCTCTTTCATAACCAGAGTG
 GGTCCCGTCTGTCTGGTGAACCGGCCAGGCTCCTCAGCCTCCTCCGACACCGAAGAGGACGCCCT
 TCCCGCAACAAGTGCAAGAAGGAGATCATGGTAGGGCTCAATTCCAAGCTGACCTCAACATCCTGCAC
 TTGAACCGACATTGTGACAAGATCTATGAAAATGAAGACCAGTGTGTGGAGCCCCACCGTGTCCAG
 AGCGGGAGGTGGAGGAGTTCCTGTACAGGGCAGTGAAGCGGCGGTGGCAGGAGATGGCTGGCCCCAGAT
 CCCAGAGGGCGAGGTGGTGAAGGACAGTGAACAGGCGCTGTACGAGCTGGTGAAGTGAATTTCAATGTG
 GAGGAGGCCCTGCGCAGGCTGAGGTTCAATGTGAAGGTGATCCGAGATGGGCTGTGTGCCCTGGAGCGAGG
 AGGAGTGCAGGAACCTTTGAACATGGCTTCCGTGTTACCGGAAGAAGTCCATCTGATTCAGGCCAACAA
 GGTCCGACCGGTCAGTGGGCGAGTGTGTGGAGTATTATTACCTGTGGAAGAAGTCTGAGCGCTATGAC
 TACTTTGCCAGCAGACGAGGCTGGGTCGGAGGAAGTTCGTCTCCTCCGGAACCAGGATACTGAACAGG
 ACCTGGATGGTCTTGACCCTGATGGCCATGCCCGCTGCAGTCTGAGACAAGGGTCCCCGTGGGTGAGTC
 GACA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RR206406 representing NM_001108737
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MAEASSLERQSPRVASCLVHSLCPREPSLQTTAVVSMGSADHQFHLTELLTQNYSLQEGCAEALQGPPDRP
 EEELDKDFIDQSSDMPLDELLALVGYESSEPISEQESEGSDTAPPLPDMTLDKQIAKDLLSGEEEEETQ
 SSADDLTPSVTSHEASDLFHNQSGSRFLSGDNPGSSASSDTEEDALPANKCKKEIMVGPQFQADLNILH
 LNRHCDKIYENEDQLLWSPTVLPEREVEEFLYRAVKRRWQEMAGPQIPEGEVVKDSEQALVELVKCNFNV
 EEALRRLRFNVKVIDRGLCAWSEEECRNFEHGFRVHGKNFHLIQANKVTRRSVGCVEYYLWKKSERYD
 YFAQQTRLGRRKFVSSGTTDTEQDLGLDPDGHARLQSETRVPVGEST

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_001108737

ORF Size: 1194 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_001108737.1](#), [NP_001102207.1](#)

RefSeq Size: 2986 bp

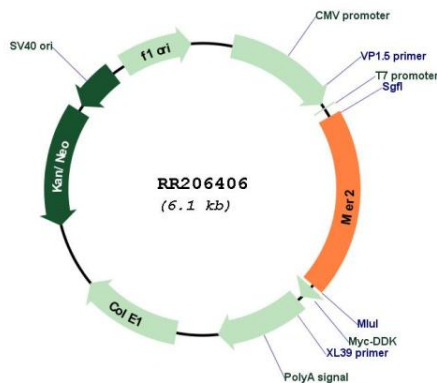
RefSeq ORF: 1197 bp

Locus ID: 362841

Cytogenetics: 7q11

MW: 44.9 kDa

Product images:



Circular map for RR206406