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Product datasheet for RC207065

MIER2 (NM_017550) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MIER2 (NM_017550) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MIER2
Synonyms:	KIAA1193; Mi-er2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC207065 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGAGGCCTCCTCGCTGGGGAGGCAGAGTCCTCGCGTGGTCTCCTGCCTCGAGCACAGCCTGTGCC
CAGGGGAGCCGGGCTTGCAGACAACAGCAGTGGTGTCCATGGGCTCTGGAGACCATCAGTTCAACCTCGC
AGAGATCCTGTCACAGAACTACAGTGTTAGGGGGGAGTGCGAGGAGGCCTCGAGGTGCCCAGACAAGCCC
AAGGAGGAGCTGGAGAAGGACTTCATCTCCCAGAGCAACGACATGCCCTTTGATGAGCTGCTTGCGCTCT
ATGGCTACGAGGCGTCAGACCCCATTTCAGACCGGGAGAGTGAGGGTGGTGACGTGGCCCCGAACCTCCC
AGACATGACCCTGGACAAAGAACAAATAGCGAAGGATTTGCTTTCAGGGGAAGAAGAGGAAGAGACGCAA
TCATCTGCTGACGACCTCACCCCGTCCGTGACCTCCCACGAGGCCTCCGACCTCTTCCCTAACCGGAGTG
GATCTCGTTTCCTGGCTGATGAAGACAGAGAGCCTGGCTCTTCTGCCTCCTCCGACACCGAGGAGGACTC
TCTTCCTGCCAACAAATGTAAGAAGGAGATCATGGTGGGACCTCAGTTCCAAGCTGACCTCAGCAACCTG
CACTTGAACCGGCACTGTGAGAAGATCTACGAGAACGAAGACCAGCTGCTCTGGGACCCCAGCGTCCTCC
CTGAGAGGGAGGTGGAGGAGTTCCTGTACAGGGCGGTGAAGCGGCGTTGGCACGAGATGGCCGGGCCTCA
GCTCCCAGAGGGAGAAGCCGTGAAAGACAGTGAGCAGGCGCTGTACGAGTTGGTGAAATGCAACTTCAAT
GTGGAGGAGGCCCTGCGAAGGCTGCGGTTCAACGTGAAGGTGATCCGAGATGGGCTCTGTGCTTGGAGTG
AAGAGGAGTGCAGGAACTTTGAGCACGGCTTCCGTGTGCATGGAAAGAACTTTCACCTGATCCAGGCCAA
CAAGGTGCGCACACGGTCAGTGGGCGAGTGTGTCGAGTACTACTACCTGTGGAAGAAGTCGGAGCGCTAC
GACTACTTCGCCCAGCAGACGCGGCTGGGCCGGAGGAAGTACGTCCCGTCCGGAACCACGGACGCAGACC
AGGACCTGGATGGCAGCGACCCCGATGGCCCCGGCCGTCCGCGCCCGGAGCAAGACACCCTGACTGGGAT
GCGCACAGATCCACTGAGCGTGGATGGCACGGCCGGTGGTCTCGATGAGCCCGGAGTGGCCTCTGATGGA
CTCCCGTCCTCGGAGCCAGGGCCGTGTTCCTTCCAGCAGCTGGATGAGTCCCCCGCTGTACCCCTGTCCC
ATCGGCCCCCAGCCCTGGCCGACCCAGCCTCATACCAGCCAGCTGTCACTGCTCCGGAGCCAGACGCCAG
CCCAAGGCTGGCCGTGGACTTCGCCCTGCCCAAGGAGCTGCCCCTCATCTCCAGCCATGTGGACCTCAGC
GGGGATCCGGAGGAGACTGTGGCCCCAGCACAGGTGGCTTTGTCGGTCACCGAGTTTGGACTCATCGGCA
TTGGGGACGTGAACCCCTTCCTGGCCGCCCACCCCACGTGCCCGGCCCCCGGGCTACACTCGGAGCCCCT
GTCACACTGTAACGTGATGACCTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC207065 protein sequence
Red=Cloning site Green=Tags(s)

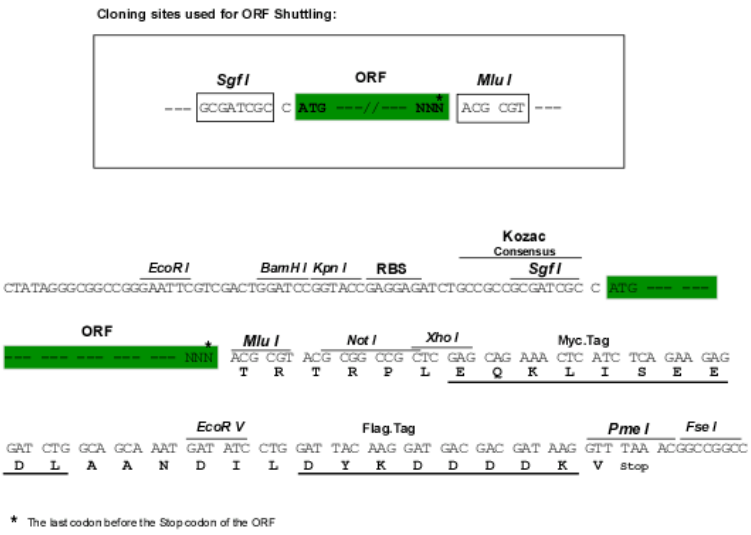
MAEASSLGRQSPRVVSCLEHSLCPGEPGLQTTAVVSMGSGDHQFNLAEILSQNYSVRGECEEASRCPDKP
KEELEKDFISQSNDMPFDELLALYGYEASDPISDRESEGGDVAPNLPDMTLDKEQIAKDLLSGEEEEETQ
SSADDLTPSVTSHEASDLFPNRSGSRFLADEDREPGSSASSDTEEDSLPANKCKKEIMVGPQFQADLSNL
HLNRHCEKIYENEDQLLWDPSVLPEREVEEFLYRAVKRRWHEMAGPQLPEGEAVKDSEQALYELVKCNFN
VEEALRRLRFNVKVIRDGLCAWSEEECRNFEHGFRVHGKNFHLIQANKVRTRSVGECVEYYYLWKKSERY
DYFAQQTRLGRRKYVPSGTTDADQDLDGSDPDGPGRPRPEQDTLTGMRTDPLSVDGTAGGLDEPGVASDG
LPSSEPGPCSFQQLDESPAVPLSHRPPALADPASYQPAVTAPEPDASPRLAVDFALPKELPLISSHVDLS
GDPEETVAPAQVALSVTEFGLIGIGDVNPFLAAHPTCPAPGLHSEPLSHCNVMTC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6519_e03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_017550

ORF Size: 1635 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_017550.2

RefSeq Size: 2825 bp

RefSeq ORF: 1638 bp

Locus ID: 54531

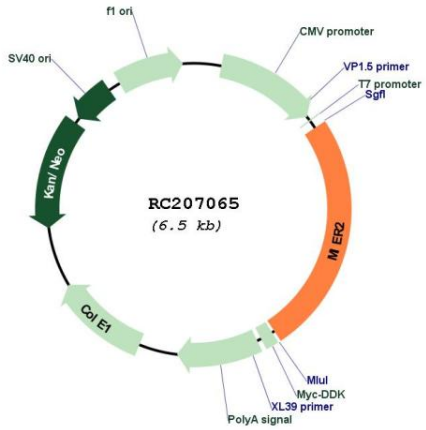
UniProt ID: Q8N344

Cytogenetics: 19p13.3

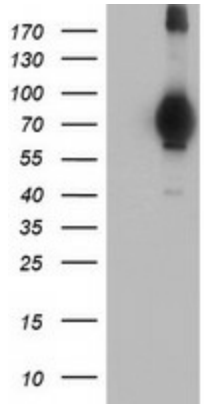
MW: 59.9 kDa

Gene Summary: Transcriptional repressor.[UniProtKB/Swiss-Prot Function]

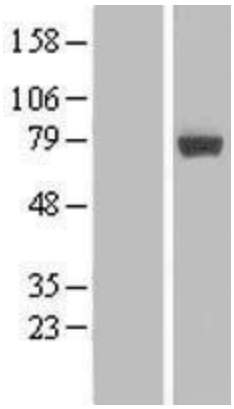
Product images:



Circular map for RC207065



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MIER2 (Cat# RC207065, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-MIER2(Cat# [TA504260]). Positive lysates [LY413697] (100ug) and [LC413697] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY413697]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207065 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).