

Product datasheet for RC209662

Meis homeobox 3 (MEIS3) (NM_001009813) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Meis homeobox 3 (MEIS3) (NM_001009813) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Meis homeobox 3
Synonyms:	MRG2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC209662 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCCCGAGGTATGATGAGCTGCCGACTACCCAGGCATCGTGGATGGCCCCGAGCCCTGGCTAGCT
TCCCAGAGACAGTCCCCGAGTACCAGGGCCCTATGGCCCGCACCGGCCCTCCCAGCCCCTGCCCCAGG
CTTGGACAGCGACGGCCTGAAGAGGGAGAAGGATGAGATCTATGGACACCCGCTCTTCCCCTCTTGCC
CTGGTCTTTGAGAAATGTGAAGTGGCTACATGCTCTCCCGTGACGGGGCCGGAGCTGGGCTGGGGACAC
CCCCTGGAGGTGACGTCTGCTCCTCTGATTCTTCAACGAGGACATCGCTGCCTTTGCCAAGCAGGTTTCG
CTCTGAGAGGCCCTCTTCTCCTCAACCCAGAAGTGGACAATCTGATGATCCAGGCCATCCAGGTGCTG
CGGTTCCACCTGCTGGAGCTGGAGAAGGAAAGATGCCCATCGACCTGGTTCATCGAGGATCGGGACGGCG
GCTGCAGGGAGGACTTCGAGGACTACCCAGCCTCTGCCCCAGCCTCCCAGACCAGAATAATATGTGGAT
TCGAGACCATGAGGATAGTGGGTCTGTACATTTGGGGACCCAGGTCCATCCAGTGGGGGCTGGCCTCC
CAGAGTGGGGACAACCCAGTGACCAAGGAGACGGGCTGGACACCAGCGTGGCCTCTCCCAGTCTGGTG
GAGAAGATGAGGACTTGGACCAGGAGCGACGGCGAAACAAGAAGAGGGGGATCTTCCCAGGTGGCCAC
CAACATCATGCGAGCCTGGTTGTTCCAGCACCTCTCGCACCCGTACCCCTCGGAGGAGCAGAAGAAACAG
CTGGCGCAGGACACGGGGCTCACCATCCTGCAAGTCAACAACCTGGTTCATTAACGCCGGAGACGCATCG
TGCAACCTATGATCGATCAATCCAACCGCACAGGGCAGGGTGCAGCCTTACGCCAGAGGGCCAGCCCAT
CGGGGGCTATAACCGAGACGCAGCCACACGTGGCCGTCGGCCTCCGGGATCAGTGGGGATGAGTTTGAAC
TTGAAGGAGAATGGCATTATCTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC209662 protein sequence
Red=Cloning site Green=Tags(s)

MARRYDELPHYPGIVDGPAAALASFPETVPAVPGPYGPHRPPQPLPPGLDSDGLKREKDEIYGHPLFPLLA
 LVFEKCELATCSPRDGAGAGLGTTPPGDVCSSDSFNEDIAAFKQVRSERPLFSSNPELDNLMIQAIQVL
 RFHLLLELEKGMPIDLVIEDRDGGCREDFEDYPASCPSLPDQNNMWIRDHEDSGSVHLGTPGPSSGGLAS
 QSGDNSSDQGDGLDTSVASSPSSGGEDEDLDQERRRNKKRGIFPKVATNIMRAWLFQHL SHYPYPSEEQKKQ
 LAQDTGLTILQVNNWF INARRRIVQPMIDQSNRTGQGAASFPEGQPIGGYTETQPHVAVRPPGSGVMSLN
 LEGEWHYL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6671_g06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_001009813

ORF Size: 1074 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_001009813.3](#)

RefSeq Size: 1977 bp

RefSeq ORF: 1077 bp

Locus ID: 56917

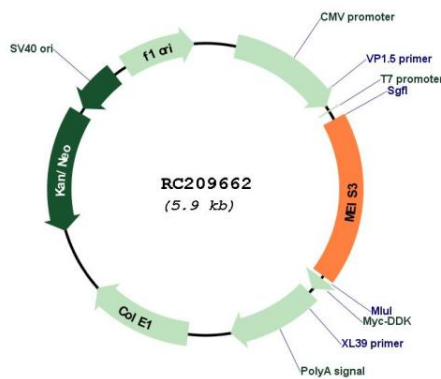
UniProt ID: [Q99687](#)

Cytogenetics: 19q13.32

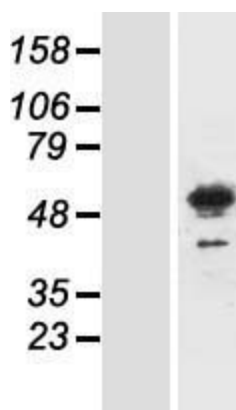
MW: 39.1 kDa

Gene Summary: This gene encodes a homeobox protein and probable transcriptional regulator. The orthologous protein in mouse controls expression of 3-phosphoinositide dependent protein kinase 1, which promotes survival of pancreatic beta-cells. [provided by RefSeq, Sep 2016]

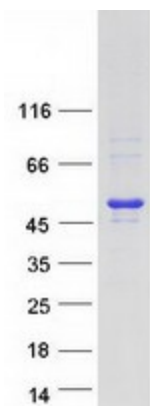
Product images:



Circular map for RC209662



Western blot validation of overexpression lysate (Cat# [LY422933]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209662 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MEIS3 protein (Cat# [TP309662]). The protein was produced from HEK293T cells transfected with MEIS3 cDNA clone (Cat# RC209662) using MegaTran 2.0 (Cat# [TT210002]).