

Product datasheet for **MG205536**

Mrg2 (BC003762) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mrg2 (BC003762) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mrg2
Synonyms:	Meis3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205536 representing BC003762 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGCCCCGAGGTATGATGAGCTGCGCCACTACCCAGGCATTACAGAGCACATGACAGCCCTGGCCAGCT
TTTCAGAGGCAGCGCCTTCAGTACCTAGAGCCCTGGGCCCTACACCCACACCGGCCACCCAGCTCCA
AGCTCCAGGCTTGGACAGCGACAGCTTGAAGAGAGAGAAGGATGACATCTATGGACACCCCTCTTCCCA
CTCTTGGCCCTGGTCTTTGAGAAGTGTGAGCTGGCTACATGCTCGCCCCGTGATGGGGCTCGGCTGGGC
TGGTTACACCCAGGTGGTACGTCTGCTCCTCTGACTCCTTCAATGAGGATATTGCTGCCTTTGCTAA
GCAGATCCGCTCCGAGAGGCCGCTGTTCTCTTCCAACCCGAGCTGGACAACCTGATGGTCCAGGCCATC
CAGGTACTCCGGTTCCACCTGCTGGAGCTGGAGAAGGGGAAGATGCCCATAGACCTGGTGATTGAGGATC
GGGATGGTAGTTGCAGGGAGGATCTTGAGGACTACGCAGCCTCCTGCCCCAGCCTCCAGACCAGAATAC
TACATGGATCAGAGACCATGAGGACAGTGGGTCTGTACATCTGGGGACCCAGGTCCATCCAGCGGAGGC
CTGGCCTCCAGAGTGGGGACAACCTCAAGTGACCAAGGAGATGGGCTGGACACAAGCGTAGCCTCTCCCA
GCTCCGCAGGAGAGGATGAGGACCTGGACCTGGAACGCAGACGGAACAAGAAGAGGGGGATCTTTCCCAA
AGTGGCCACCAACATCATGAGGGCCTGGTTGTTCCAGCATCTCTCGACCCGTACCCTTCAGAAGAGCAA
AAGAAACAGCTGGCCCAGGACACAGGGCTCACCATCCTGCAGGTGAACAACCTGGTTTATTAATGCCCGGA
GACGAATAGTGCAGCCCATGATTGACCAGTCTAATCGCACAGGGCAGGGTGCATCTTTCAACCTGAGGG
CCAGCCCATGGCAGGCTTCACAGAGACTCAGCCACAAGTGACAGTCAGGACACCAGGATCAATGGGGATG
AACCTGAACCTAGAAGGAGAGTGGCATTACCTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >MG205536 representing BC003762
 Red=Cloning site Green=Tags(s)

MARRYDEL RHYPGITEHMTALASFSEAAPSVPRAPGPYTPHRPPQLQAPGLDSDSLKREKDDIYGHPLFP
 LLALVFEKCELATCSPRDGASAGLGSPGGDVCSSDSFNEDIAAFKQIRSERPLFSSNPELDNL MVQAI
 QVLRFHILLELEKGKMPIDLVIDRDGSCREDLEDYAASCPSLPDQNTTWIRDHEDSGSVHLGTPGPSSGG
 LASQSGDNSSDQGDGLDTSVASPSSAGEDLDLERRRNKKRGIFPKVATNIMRAWLFQHL SHYPYSEEQ
 KKQLAQDTGLTILQVNNWFINARRRIVQPMIDQSNRTGQGASFNPEGQPMAGFTETQPQVTVRTPGSMGM
 NLNLEGEWHYL

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: BC003762

ORF Size: 1083 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [BC003762](#), [AAH03762](#)

RefSeq Size: 1721 bp

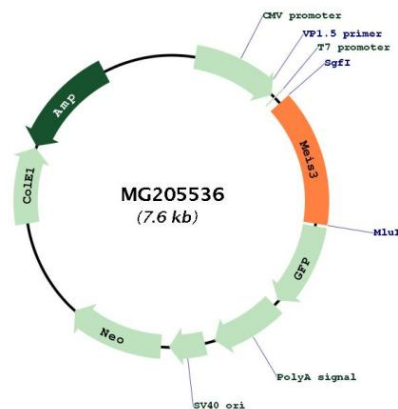
RefSeq ORF: 1085 bp

Locus ID: 17537

Cytogenetics: 7 8.76 cM

Gene Summary: The protein encoding this gene belongs to the three amino acid loop extension family of homeodomain transcription factors, which play essential roles in many embryonic processes. These proteins are characterized by an atypical homeodomain containing a three amino acid loop extension between helices 1 and 2. Expression of this gene begins during the compaction stage of embryogenesis and continues into the blastocyst stage. This gene is also expressed in pancreatic islet cells and beta-cells and regulates beta-cell survival. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2014]

Product images:



Circular map for MG205536