

Product datasheet for MR202174

Mis12 (NM_025993) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mis12 (NM_025993) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Mis12
Synonyms: 2510025F08Rik; AU044651; Misc12
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR202174 representing NM_025993
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCTGTGGATCCGATGGCCTATGAGGCCAGTTCTTTGGCTTCACACCACAGACTGCCTGCTGAGGA
 TCTACGTAGCATTTCAAGACCACCTGTTTGAAGTGATGCAGGCTGTTGAACAGGTTATCCTAAAGAAGCT
 GGAGGACATTCAAACTGTGAGATCACCCCTGTCCAGACTCGGAAATGCACAGAGAAGTTCTTTGCTTC
 ATGAAAGGACGCTTCGATAACCTTTTTGGCAAAATGGAGCAGCTGATTTTGCAGTCGATTTTGTGTATTC
 CTCCAACATCCTGCTTCTGAAGACAAGTGTCAGGAGACGAATCCTTTCAGTGAAGAGAACTCGAGCT
 TCTCCAACAGGAAATCAAGAGTTACAGGAGAAATACAAGTTGAGTTGTGCACTGAGCAGGCCCTTCTT
 GCAGAATTAGAGGAGCAGAAAAGTAAAGGCCAACTCAGAGAGACCTTGACTTTCTTTGATGAGCTTG
 AAAACATCGGCAGATATCAAGGAAGTAACTTTAGGGAGAGTTTGGCATCCCTGGTCCAGAGCTGCAG
 AAAACTTCAGAGCATTAGAGACAATGTAGAAAAAGAAAGCAGGAGACTGGAAACACAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR202174 representing NM_025993
 Red=Cloning site Green=Tags(s)

MSVDPMAYEAQFFGFTPQTCLLRIYVAFQDHLFEVMQAVEQVILKKLEDIPNCEITPVQTRKCTEKFLCF
 MKGRFDNLFQKMEQLILQSILCIPPNIILLPEDKCQETNPFSEEKLELLQQEIKELQEKYKVELCTEQALL
 AELEEQTVKAKLRETLTFFDELENIQGRYQTSNFRESLASLVQSCRKLQSIQIRDNVEKESRRLETQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

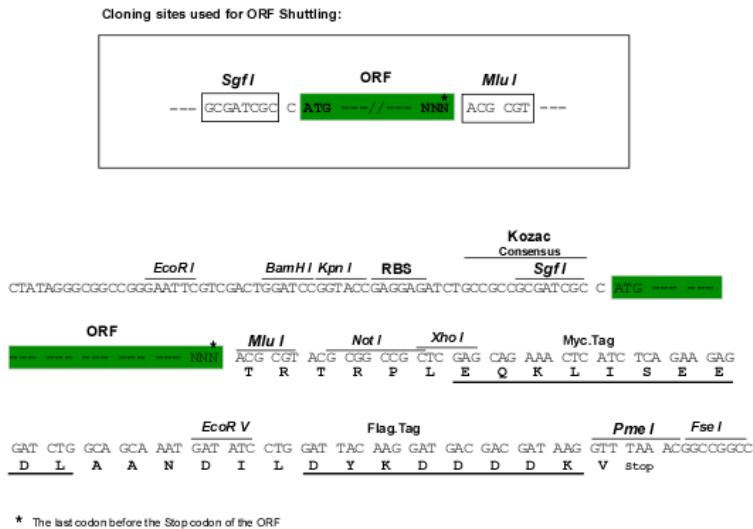


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Chromatograms: https://cdn.origene.com/chromatograms/mm9042_f06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_025993

ORF Size: 618 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_025993.3](#)

RefSeq Size: 2766 bp

RefSeq ORF: 621 bp

Locus ID: 67139

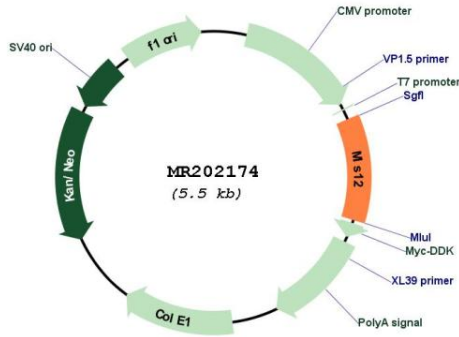
UniProt ID: [Q9CY25](#)

Cytogenetics: 11 B4

MW: 24.6 kDa

Gene Summary: Part of the MIS12 complex which is required for normal chromosome alignment and segregation and for kinetochore formation during mitosis. Essential for proper kinetochore microtubule attachments.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR202174