

Product datasheet for **RN214900**

Meiob (NM_001115033) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Meiob (NM_001115033) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Meiob
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN214900 representing NM_001115033
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGCTAAGTTCTTCGCACTGAAGAACTTCACTGCACTTTCAGATCTTCATCCAAATATGGCTAATCTGA
 AAATAATCGGAATAGTTATTGGGAAAACAGATGTCAAAGGCTTTCCAGACAGAAAAATATCGGATCAGA
 AAGATACACCTTTAGTTTCACCATTCGTGACTACCAAATCACTTTGTGAATGTGTCTCCTGGGCGAGT
 GAAGACTACATCCGCTCGCTGTCTGACAACTTTAAGGTTGGTGAGTGTGTGATAATTGAAATCCCTGA
 TCCAAAGAAAGGAGACAGAAAGAGAAGAAAGGTTAGCCCTGCAACTCCTAGCAACTATAAACTATTGCT
 CAGTGAGAATCACTCAATGGTAAAAGTTTGTCCCTTATGAAGTGACACCAAGTTACTTTCTTTGATA
 CACTTGCTGTAAAGAGTCTCGGGATTATTACTATTGGCTGACATTGTGCAATGGACACAGCTAG
 ATGGGAGGATTATTAATGTGCTTGACAGTGTGAGATCGGTTGGAGAGCCAAAGTACTTTACAACCTCAGA
 CCGAAGAAAAGGCCAGAGGTGTGAGGTTAACTCTTTGATGAAACAGAGCCTTTTACAATGACATGT
 TGGGATAACGAATCCATTCTACTTGCACAGAGCTGGATGGCCCGAGAAACAGTAATTTGCTTCCGATG
 TGAGAATAAATTTTAACAAATTTCAGAAGTGCATGGCAGCAACCGTAATCTCAAAAACATTATCACAGT
 GAATCCAGATACACCAGAAGCCAATATCTACTGAATTTTATAAGAGAAAATAAGAGACAAGTATAGCT
 GATGAAATTGACAGTTATTTGAAAGAATCTGTAACTTAAACACAATAGTTAATGTCTATACAGTGAAC
 AGTTAAAAGGAAAAGCTTTGGAAAATGAAGGAAAAGTGGATCCTTTCTATGGCATCCTTTATGCTTACAT
 TTCTACATTGAACATTGATGATGAACTACCAAAGTAGTTAGAAATAGATGTTCCAGCTGTGGTTATATT
 GTAAACGACGCCCTCCAATACTTGACAATTTGCAGCAAAGATTCTCTAGATCTAGATCTTTTGTCTCA
 GTTTTGATGTGCTGGTTGATCTCACTGACCACACTGGAACCCCTCGTTCTGCAGTCTCTCAGGCAGTGT
 TGCTGAGGAGACTTTGGGCTGCACGATAAACGAGTTTCTCACAATGACAAGTGAACAGAAAAACAAAGCTG
 AAGTGGCAACTCCTTTTGGAAAGAGCAAAATTTACTTAAAATTGATTTTGTACACAGGGCAAGGGGTG
 GACTGAAAGTCAACATTCTCTCTGTAAGCTCGCAGATCCTATTGAGCGAGCAGGGACCTGGCTGGACA
 AGGACACACT**AA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001115033

Insert Size: 1413 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001115033.1, NP_001108505.1

RefSeq Size: 1691 bp

RefSeq ORF: 1413 bp

Locus ID: 685099

UniProt ID: B0BMX9

Cytogenetics: 10q12

Gene Summary: Single-stranded DNA-binding protein required for homologous recombination in meiosis I. Required for double strand breaks (DSBs) repair and crossover formation and promotion of faithful and complete synapsis. Not required for the initial loading of recombinases but required to maintain a proper number of RAD51 and DMC1 foci after the zygotene stage. May act by ensuring the stabilization of recombinases, which is required for successful homology search and meiotic recombination. Displays Single-stranded DNA 3'-5' exonuclease activity in vitro (By similarity).[UniProtKB/Swiss-Prot Function]