

Product datasheet for **MC216529**

Meiob (NM_029197) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Meiob (NM_029197) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Meiob
Synonyms:	4930528F23Rik; MLZ-675
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC216529 representing NM_029197
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCAAAGTTCTTTGCATTGAAGAACTTCACTGCACTTCCGATCTTCATCCAAATATGGCTAATCTGA
 AAATAATCGGAATAGTTATTGGGAAAACAGATGTCAAAGGCTTTCCAGACAGAAAAATATTGGATCAGA
 AAGATACACTTTTCAGTTTCACTTTCGCTGACTCACCATTGTCACCTTTGTGAATGTATCCTCCTGGGCGAGT
 GAGGACTACATCCGCTCGCTGTCCGAGAGCTTCAGGGTTGCTGAGTGTGTGATAATTGAAATCCCTGGA
 TCCAAAGAAAGGACACAGAAAGAGAAGAAAGTTTAGCCCTGCAACTCCTAGCAACTATAAACTATTGCT
 CAGTGAGAATCACTCAATGGTAAAAGTTTGTCCCTTATGAAGTGGATACCAAGTTACTTTCTTTGATA
 CACTTGCCTGTTAAAGAATCTCGAGATTATTATTCATTGGCTGACATTGTTGCAATGGACACAGCTTGT
 ATGGGAGGATTATTAATGTGCTTGCAGCTGTGAGATCGGTTGGAGAACCAAAATACTTTACAACCTCAGA
 CCGAAGAAAAGGCCAGAGATGTGAGGTTAACTCTTTGATGAAACAGAGCCTTCTTTCACAATGACATGT
 TGGGATAATGAATCCATTCTACTTGCACAGAGCTGGATGGCGCGAGAAACAGTAATATTTGCCTCTGATG
 TGAGAATAAATTTTAACAAATTTCAAGACTGCATGGCAGCAACTGTAATCTCAAAGACCATTATCACAGT
 GAATCCAGATACACCAGAAGCCAATATCCTACTGAATTATATAAGAGAAAATAAGAGACAAATGTAGCT
 GATGAAATTGACAGTTACTTGAAGAATCCGTAACCTTAAACACAATAGTTGATGTCTATACAGTGGAAC
 AGCTAAAAGTAAAAGCTTTGAAAAGTGAAGGAAAAGCTGATCCTTTCTATGGCATCCTTTATGCTTACAT
 TTCTACATTGAACATTGATGACGAACTACCAAGTAGTTAGAAATAGATGTTCCAGCTGTGGTTATATT
 GTAAATGAAGCCTCCAATCTTGTACAATTTGCAACCAAGATTCTCCAGATTGAAATCTTTTTTTCTCA
 GTTTTGTGTGCTAGTTGATCTTACTGACCACACTGGAACCTCCATTCTGCAGTCTCTCAGGAAGTAT
 TGCTGAGGAACTTTGGGCTGCACGATAAATGAGTTTCTCACAATGACAAGTGAACAGAAAACAAAGCTG
 AAGTGGCAACTCTTTTGGAAAGAGCAAAATTTATTTAAATGATTTTATCACACAGAGCAAGGGGTG
 GACTGAAAGTACCATACTCTCTGTAAGCTTGCAGATCCTACTGAGGCAAGCAGGAACCTGGCTAGACA
 AGGACATACT**AA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_029197
- 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.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_029197.1 , NP_083473.1
RefSeq Size:	1703 bp
RefSeq ORF:	1413 bp
Locus ID:	75178
UniProt ID:	Q9D513
Cytogenetics:	17 A3.3
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.[UniProtKB/Swiss-Prot Function]