

Product datasheet for **MR206929**

Mael (NM_175296) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mael (NM_175296) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mael
Synonyms:	4933405K18Rik; AU019877
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR206929 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCAACCGCAGGGCCAGCCGAATGCCTACTATTTCTTCGTACAGGAGAAGATTCCCGAACGCGCC
 GCGAGGCTGCCGGTGGCCCGGTGGCAGACGCCATCCCTACTGCTCGGCCGACTGGGCGCTCTTGAG
 GGAGGATGAGAAGGAGAAATACTCAGAAATGGCTCGAGAGTGGAGAGCAGCCAGGGAAAGGATTCTGGG
 CCTTCAGAGAAGCAGAACTTGTATCTACACCACTGAGGAGGCCAGGCATGCTTGTACAAAACCAAGTA
 TTTCTCCCTGATATGTCAAATTTATCTATAAAAAGTGATCAAGCTCTCCTTGGAGGCATTTTTTATTT
 TCTGAACATTTTAGCCATGGTGAAGTACCTCCTCATTGTGAACAGCGCTTCTCCCTTGTGAAATTGGC
 TGTGTTAAATACTCCCTCCAGGAAGGTATTATGGCAGATTTCCACAGTTTTATCCATCCAGGTGAAATTC
 CACGAGGATTTGATTCCATTGCCAGGCTGCAAGTGATTCTAGTCACAAGATTCATTTTCAAACCTTGA
 ATTCGGGCATGACCAAGCAACTGTGTTACAAAACCTCTATAAATTTATACATCCAAACCCAGGGAACCTGG
 CCACCTATTTACTGCAAGTCTGATGATAGAGCCAGAGTCAACTGGTGTGTTGAAGCGTATGGAGCGGCAT
 CAGAAATAAGGCAAGATCTAGAATTCTACTGTAGAGGACCTTGTAGTTGGGATCTACAGCAAAAATT
 CCTCAAGGAGCCCTTAAGACCTGGGTGCGAAGCCTCCTAGATGTGGCCATGTGGGACTATTCTAGCAAC
 ACGAGGTGCAAAATGGCATGAAGAAAATGATATTCTTCTGTGCTTTAGCTGTTTGAAGAAAATCGCGT
 ACTGCATCAGTAATTCTTAGCCACTCTGTTTGGAAATCCAGCTCACTGGAGCTCATGTACCACTACAAGA
 CTATGAGGCCAGCAACAGTGTGACACCCAAAATGGTTGTATTGGATGCAGGGCGGTACCAGAAGCTAAGA
 GTTGAGAGTCCAGGATTTGTCAATTTCAACTCTTACAATCAGGAACAAAGATCAAATACATCTACTGGTT
 ATTATCCATCTGGGGTAAAAATTTGGGCCCTCACAGCAGTGTTCGCGGAAGAGGAATTACCCGCTTACT
 AGAGAGCATCTCAAACCTCCAACAACATCCATAGATTCTCCAGCTGTGAGACTTCACTCTCACCTTAC
 ACGCCCCAAAAGATGGGTACAAACCTTTCTCCTCTTTTCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR206929 protein sequence
 Red=Cloning site Green=Tags(s)

MPNRRASRNAYFFVQEKIPELRRRGLPVARVADAIIPYCSADWALLREDEKEKYSEMAREWRAAQKDSG
 PSEKQKLVSTPLRRPGMLVPKPSISPPDMSNLSIKSDQALLGGIFYFLNIFSHGELPPHCEQRFLPCEIG
 CVKYSLQEGIMADFHSF IHPGEIPRGFRFHCQAASDSSHKIPISNFEFGHDQATVLQNL YKFIHPNPGNW
 PPIYCKSDDRARNWCLKRMERASEIRQDELLTVEDLVVGIYQKFLKEPSKTWVRSLLDVAMWDYSSN
 TRCKWHEENDILFCALAVCKKIAYCISNSLATLFGIQLTGAHVPLQDYEASNSVTPKMVVLDAAGRYQKLR
 VESPGFCHFNSYNQEQRSNTSTGYPSGVKISGPHSSVRGRGITRLLESISNSSNNIHRFSSETSLSPY
 TPQKDGYPFSSFS

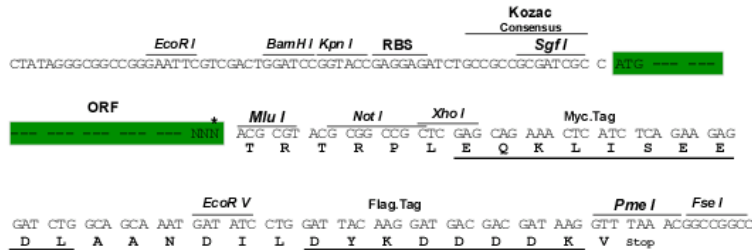
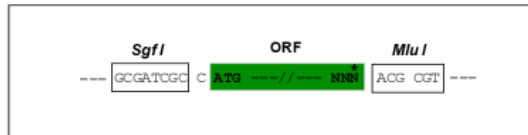
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_175296

ORF Size: 1305 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_175296.4](#), [NP_780505.1](#)
RefSeq Size: 1546 bp

RefSeq ORF: 1305 bp

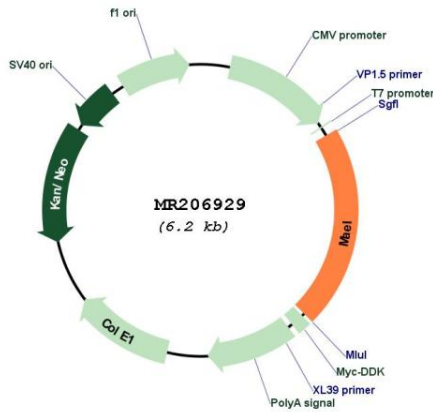
Locus ID: 98558

UniProt ID: [Q8BVN9](#)
Cytogenetics: 1 H2.3

MW: 49.4 kDa

Gene Summary: Plays a central role during spermatogenesis by repressing transposable elements and preventing their mobilization, which is essential for the germline integrity. Acts via the piRNA metabolic process, which mediates the repression of transposable elements during meiosis by forming complexes composed of piRNAs and Piwi proteins and governs the methylation and subsequent repression of transposons. Its association with piP-bodies suggests a participation in the secondary piRNAs metabolic process. Required for the localization of germ-cell factors to the meiotic nuage.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206929