

Product datasheet for **MG206929**

Mael (NM_175296) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mael (NM_175296) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mael
Synonyms:	4933405K18Rik; AU019877
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206929 representing NM_175296 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCAACCGCAGGGCCAGCCGCAATGCCTACTATTTCTTCGTACAGGAGAAGATTCCCGAACTGCGCC
GGCGAGGCTGCCGGTGGCCCGGTGGCAGACGCCATCCCCTACTGCTCGGCCGACTGGCGCTCTTGAG
GGAGGATGAGAAGGAGAAATACTCAGAAATGGCTCGAGAGTGGAGAGCAGCCAGGGAAAGGATTCTGGG
CCTTCAGAGAAGCAGAACTTGTATCTACACCACTGAGGAGGCCAGGCATGCTTGTACAAAACCAAGTA
TTTCTCCCCTGATATGTCAAATTTATCTATAAAAAGTGATCAAGCTCTCCTTGGAGGCATTTTTTATTT
TCTGAACATTTTTAGCCATGGTGAGCTACTCCTCATTGTGAACAGCGCTTCTCCCTTGTGAAATTTGGC
TGTGTTAAATACTCCCTCCAGGAAGGTATTATGGCAGATTTCCACAGTTTTATCCATCCAGGTGAAATTC
CACGAGGATTTTCGATTCCATTGCCAGGCTGCAAGTGATTCTAGTCACAAGATTCCTATTTCAAATTTGA
ATTCGGGCATGACCAAGCAACTGTGTTACAAAACCTCTATAAATTTATACATCCAAACCCAGGAACTGG
CCACCTATTTACTGCAAGTCTGATGATAGAGCCAGAGTCAACTGGTGTGGAGCGATGGAGCGGGCAT
CAGAAAATAGGCAAGATCTAGAATCTCACTGTAGAGGACCTTGTAGTTGGGATCTACCAGCAAAAATT
CCTCAAGGAGCCCTCTAAGACCTGGGTGCGAAGCCTCCTAGATGTGGCCATGTGGGACTATTCTAGCAAC
ACGAGGTGCAAAATGGCATGAAGAAAATGATATTTCTTTCTGCTTTAGCTGTTTGAAGAAAATCGCCT
ACTGCATCAGTAATTTCTAGCCACTCTGTTTGGAAATCCAGCTCACTGGAGCTCATGTACCACTACAAGA
CTATGAGGCCAGCAACAGTGTGACACCCAAAATGGTTGTATTGGATGCAGGGCGGTACCAGAAGCTAAGA
GTTGAGAGTCCAGGATTCTGTCATTTCACTCTTACAATCAGGAACAAAGATCAAATACATCTACTGGTT
ATTATCCATCTGGGGTGAATAATTCGGGCCCTCACAGCAGTGTTCGCGGAAGAGGAATTACCCGCTTACT
AGAGAGCATCTCAAATCCTCCAACAACATCCATAGATTCTCCAGCTGTGAGACTTCACTCTCACCTTAC
ACGCCCAAAAAGATGGGTACAAACCTTTCTCCTCTTTTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >MG206929 representing NM_175296
 Red=Cloning site Green=Tags(s)

MPNRRASRNAYFFVQEKIPELRRRGLPVARVADAIPYCSADWALLREDEKEKYSEMAREWRAAQKDSG
 PSEKQKLVSTPLRRPGMLVPKPSISPPDMSNLSIKSDQALLGGIFYFLNIFSHGELPPHCEQRFLPCEIG
 CVKYSLQEGIMADHFSF IHPGEIPRGRFRHCQAASDSSHKIPISNFEFGHDQATVLQNL YKF IHPNPGNW
 PPIYCKSDDRARVNWCLKRMERASEIRQDELLTVEDLVVGIYQQKFLKEPSKTWVRSLLDVAMWDYSSN
 TRCKWHEENDILFCALAVCKKIAYCISNSLATLFGIQLTGAHVPLQDYEASNSVTPKMMVLDAGRYQKLR
 VESPGFCHFNSYNQEQRNTSTGYYPGKISGPHSSVRGRGITRLLSISNSSNNIHRFSSCETSLSPY
 TPQKDGYPFSSFS

TRTRPLE - GFP Tag - V

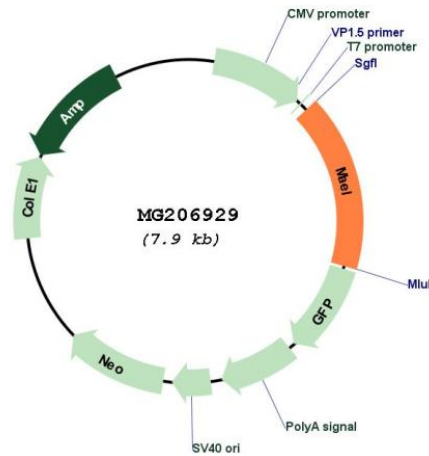
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_175296

ORF Size:	1302 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:	<ol style="list-style-type: none">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
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]