

## Product datasheet for **RG237846**

### MAEL (NM\_001286378) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MAEL (NM_001286378) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MAEL
Synonyms:	CT128; SPATA35
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237846 representing NM_001286378. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCTCGAGAATGGAGGGCCGCTCAGGAAAAGGACCCTGGGCCCTCAGAGAAGCAGAAACCTGTTTTT
ACACCACTGAGGAGGCCAGGCATGCTTGTACCAAAGCAGAATGTTTCACCTCCAGATATGTCAGCTTTG
TCTTTAAAGGTGATCAAGCTCTCCTGGAGGCATTTTTTATTTTTTGAACATTTTAGCCATGGCGAG
CTACCTCCTCATTGTGAACAGCGCTTCCCTTGTGAAATTGGCTGTGTTAAGTATTCTCTCAAGAA
GGTATTATGGCAGATTTCCACAGTTTTATAAATCCTGGTAAATTCACGAGGATTCGATTTTCATTGT
CAGGCTGCAAGTATTCTAGTACAAGATTCCTATTTCAAATTTGAACGTGGGCATAACCAAGCAACT
GTGTTACAAAACCTTTATAGATTTATTCATCCCAACCCAGGGAACCTGGCCACCTATCTACTGCAAGTCT
GATGATAGAACCAGAGTCAACTGGTGTGTTGAAGCATATGGCAAAGGCATCAGAAATCAGGCAAGATCTA
CAACTTCTCACTGTAGAGGACCTTGTAGTGGGGATCTACCAACAAAAATTTCTCAAGGAGCCCTCTAAG
ACTTGGATTCTGAAGCCTCCTAGATGTGGCCATGTGGGATATTCTAGCAACACAAGGTGCAAGTGGCAT
GAAGAAAATGATATTCTCTTCTGTGCTTGGCTGTTTGAAGAAGATTGCGTACTGCATCAGTAATTCT
CTGGCCACTCTCTTTGGAATCCAGCTCACAGAGGCTCATGTACCACTACAAGATTATGAGGCCAGCAAT
AGTGTGACACCCAAAATGGTTGTATTGGATGCAGGGCGTTACCAGAAGCTAAGGGTTGGGAGTTCAGGA
TTCTCTCATTTCAACTCTTCTAATGAGGAACAAGATCAAACACACCCATTGGTGACTACCCATCTAGG
GCAAAAATTTCTGGCAAAACAGCAGCGTTCGGGGAAGAGGAATTACCCGCTTACTAGAGAGCATTTC
AATTCTCCAGCAATATCCACAAATTCCTCAACTGTGACACTTCACTCTCACCTTACATGTCCAAAAA
GATGGATACAAATCTTTCTCTTCTTATCT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG237846  
 Blue=ORF Red=Cloning site Green=Tag(s)

MAREWRAAQKDPGPSEKQKPVFTPLRRPGMLVPKQNVSPDMSALSLKGDQALLGGIFYFLNIFSHGE  
 LPPHCEQRFLPCEIGCVKYSLQEGIMADFHSFINPGEIPRGFRFHCQAASDSSHKIPISNFERGHNQAT  
 VLQNLRYFIHPNPGNWPPYICKSDDRTRVNWCLKHMAKASEIRQDLQLLTVEDLVVGIYQKFLKEPSK  
 TWIRSLLDVAMWDYSSNTRCKWHEENDILFCALAVCKKIAYCISNSLATLFGIQLTEAHVPLQDYEASN  
 SVTPKMVVLDAQRYQKLRVGSSEGFSHFNSSNEEQRSNTPIGDYP SRAKISGQNSSVRGRGITRLLLESIS  
 NSSSNIHKFSNCDTSLSPYMSQKDGYKSFSSLS  
**TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV**  
 MGYGFYHFGTYPYSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRS NATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001286378

**ORF Size:** 1134 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).

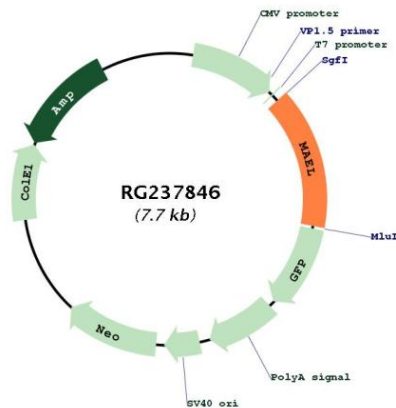
**RefSeq:** [NM\\_001286378.1](#), [NP\\_001273307.1](#)

**RefSeq Size:** 1715 bp

RefSeq ORF: 1137 bp  
 Locus ID: 84944  
 UniProt ID: [Q96JY0](#)  
 Cytogenetics: 1q24.1  
 MW: 43 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 (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for RG237846