

Product datasheet for **RG238004**

MAEL (NM_001286377) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | MAEL (NM_001286377) 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: | >RG238004 representing NM_001286377. Blue=ORF Red=Cloning site Green=Tag(s) |

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GCTCGTTTGTAGTAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCCGAACCGTAAGGCCAGCCGGAATGCTTACTATTTCTTCGTGCAGGAGAAGATCCCCGAACACGG
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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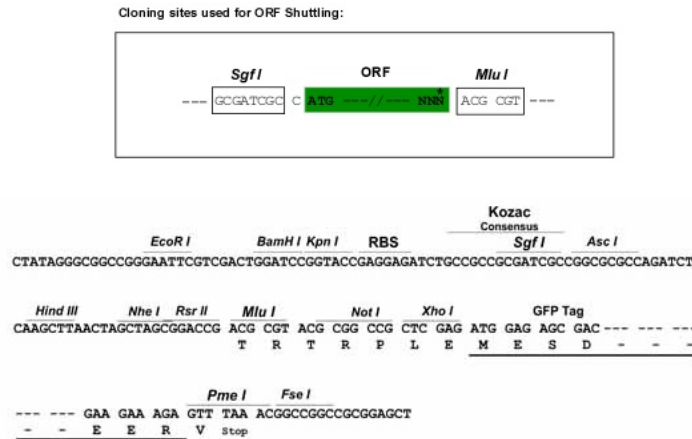
[View online »](#)

Protein Sequence: >Peptide sequence encoded by RG238004
 Blue=ORF Red=Cloning site Green=Tag(s)

MPNRKASRNAYFFVQEKIPELRRRGLPVARVADAIPLYCSDWAKPVFTPLRRPGMLVPKQNVSPDMS
 ALSLKGDQALLGGIFYFLNIFSHGELPPHCEQRFPLPCEIGCVKYSLQEGIMADHFSFINPGEIPRGFRF
 HCQAASDSSHKIPIISNFERGHNQATVLQNLRYFIHPNPGNWPIYCKSDDRTRVNWCLKHMAKASEIRQ
 DLQLLTVEDLVVGIYQQKFLKEPSKTWIRSLLDVAMWDYSSNTRCKWHEENDILFCALAVCKKIAYCIS
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 SRAKISGQNSSVRGRGITRLLSISNSSNIHKFSNCDTSLSPYMSQKDGYSFSSLS
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPYSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRS NATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001286377

ORF Size: 1209 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_001286377.1](#), [NP_001273306.1](#)

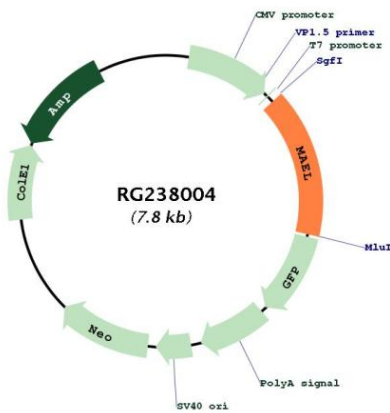
RefSeq Size: 1849 bp

RefSeq ORF: 1212 bp
 Locus ID: 84944
 UniProt ID: [Q96JY0](#)

Cytogenetics: 1q24.1
 MW: 46 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 RG238004