

Product datasheet for **RG205954**

MAEL (NM_032858) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAEL (NM_032858) 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:	>RG205954 representing NM_032858 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGAACCGTAAGGCCAGCCGGAATGCTTACTATTTCTTCGTGCAGGAGAAGATCCCCGAACTACGGC
GACGAGGCTGCCTGTGGCTCGCGTTGCTGATGCCATCCCTTACTGCTCCTCAGACTGGGCGTTCTGAG
GGAGGAAGAAAAGGAGAAATACGCAGAAATGGCTCGAGAATGGAGGGCCGCTCAGGGAAAGGACCCTGGG
CCCTCAGAGAAGCAGAAACCTGTTTTACACCACTGAGGAGGCCAGGCATGCTTGTACCAAAGCAGAATG
TTTCACCTCCAGATATGTCAGCTTTGTCTTTAAAAGGTGATCAAGCTCTCCTTGGAGGCATTTTTTATTT
TTTGAACATTTTTAGCCATGGCGAGCTACTCCTCATTGTGAACAGCGCTTCTCCTTGTGAAATTGGC
TGTGTTAAGTATTTCTCTCCAAGAAGGTATTATGGCAGATTTCCACAGTTTATAAATCCTGGTGAATTC
CACGAGGATTTTCGATTTTATTGTCAGGCTGCAAGTGATTCTAGTCACAAGATTCCTATTTCAAATTTGA
ACGTGGGCATAACCAAGCAACTGTGTTACAAAACCTTTATAGATTTATTCATCCCAACCCAGGAACTGG
CCACCTATCTACTGCAAGTCTGATGATAGAACCAGAGTCAACTGGTGTGTTGAAGCATATGGCAAAGGCAT
CAGAAATCAGGCAAGATCTACAACCTCTCACTGTAGAGGACCTTGTAGTGGGATCTACCAACAAAAATT
TCTCAAGGAGCCCTCTAAGACTTGGATTGGAAGCCTCTAGATGTGGCCATGTGGGATTATTCTAGCAAC
ACAAGGTGCAAGTGCCATGAAGAAAATGATATTCTTTCTGTGCTTTAGCTGTTTGAAGAAGATTGCTC
ACTGCATCAGTAATTTCTCTGGCCACTCTTTTGGAAATCCAGCTCACAGAGGCTCATGTACCACTACAAGA
TTATGAGGCCAGCAATAGTGTGACACCCAAAATGGTTGTATTGGATGCAGGGCGTTACCAGAAGCTAAGG
GTTGGGAGTTCAGGATTCTCTCATTTCAACTCTTCTAATGAGGAACAAAGATCAAACACACCCATTGGTG
ACTACCCATCTAGGGCAAAAATTTCTGGCCAAAACAGCAGCGTTCCGGGAAGAGGAATTACCCGCTTACT
AGAGAGCATTTCCAATTCTCCAGCAATATCCACAATTTCTCAACTGTGACACTTCACTCTCACCTTAC
ATGTCCCAAAAAGATGGATACAAATCTTCTCTCCTTATCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG205954 representing NM_032858
Red=Cloning site Green=Tags(s)

MPNRKASRNAYFFVQEKIPELRRRGLPVARVADAIPYCSSDWALLREEEKEYAEMAREWRAAQGKDPG
PSEKQKPVFTPLRRPGMLVPKQNVSPDMSALSLKGDQALLGGIFYFLNIFSHGELPPHCEQRFLPCEIG
CVKYSLQEGIMADFHSEINPGEIPRGRFHCQAASDSSHKIPISNFERGHNQATVLQNL YRFIHPNPGNW
PPIYCKSDDRTRVNWCLKHMAKASEIRQDLQLLTVEDLVVGIYQQKFLKEPSKTWIRSLLDVAMWDYSSN
TRCKWHEENDILFCALAVCKKIAYCISNSLATLFGIQLTEAHVPLQDYEASNSVTPKMMVLDAGRYQKLR
VGSSEGFSHFNSSNEEQRNTPIGDYPRAKISGQNSSVRGRGITRLLSISNSSSNIHKFSNCDTSLSPY
MSQKDGKYSFSSLS

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_032858

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:

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_032858.3](#)

RefSeq Size: 1731 bp

RefSeq ORF: 1305 bp

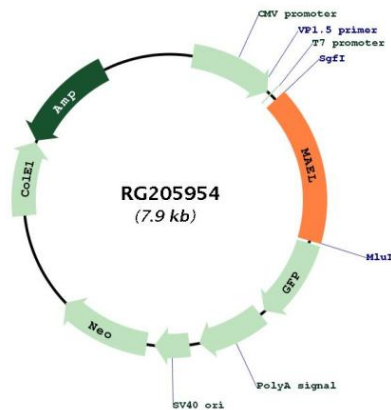
Locus ID: 84944

UniProt ID: [Q96JY0](#)

Cytogenetics: 1q24.1

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 RG205954