OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC205954

MAEL (NM_032858) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAEL (NM_032858) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MAEL
Synonyms:	CT128; SPATA35
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

ORF Nucleotide Sequence:

>RC205954 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCGAACCGTAAGGCCAGCCGGAATGCTTACTATTTCTTCGTGCAGGAGAAGATCCCCGAACTACGGC
GACGAGGCCTGCCTGTGGCTCGCGTTGCTGATGCCATCCCTTACTGCTCCTCAGACTGGGCGCTTCTGAG
GGAGGAAGAAAAGGAGAAATACGCAGAAATGGCTCGAGAATGGAGGGCCGCTCAGGGAAAGGACCCTGGG
CCCTCAGAGAAGCAGAAACCTGTTTTCACACCACTGAGGAGGCCAGGCATGCTTGTACCAAAGCAGAATG
TTTCACCTCCAGATATGTCAGCTTTGTCTTTAAAAGGTGATCAAGCTCTCCTTGGAGGCATTTTTTATTT
TTTGAACATTTTTAGCCATGGCGAGCTACCTCCTCATTGTGAACAGCGCTTCCTCCCTTGTGAAATTGGC
TGTGTTAAGTATTCTCTCCAAGAAGGTATTATGGCAGATTTCCACAGTTTTATAAATCCTGGTGAAATTC
CACGAGGATTTCGATTTCATTGTCAGGCTGCAAGTGATTCTAGTCACAAGATTCCTATTTCAAATTTTGA
ACGTGGGCATAACCAAGCAACTGTGTTACAAAACCTTTATAGATTTATTCATCCCAACCCAGGGAACTGG
CCACCTATCTACTGCAAGTCTGATGATAGAACCAGAGTCAACTGGTGTTTGAAGCATATGGCAAAGGCAT
CAGAAATCAGGCAAGATCTACAACTTCTCACTGTAGAGGACCTTGTAGTGGGGATCTACCAACAAAAATT
TCTCAAGGAGCCCTCTAAGACTTGGATTCGAAGCCTCCTAGATGTGGCCATGTGGGATTATTCTAGCAAC
ACAAGGTGCAAGTGGCATGAAGAAAATGATATTCTCTTCTGTGCTTTAGCTGTTTGCAAGAAGATTGCGT
ACTGCATCAGTAATTCTCTGGCCACTCTCTTTGGAATCCAGCTCACAGAGGCTCATGTACCACTACAAGA
TTATGAGGCCAGCAATAGTGTGACACCCAAAATGGTTGTATTGGATGCAGGGCGTTACCAGAAGCTAAGG
GTTGGGAGTTCAGGATTCTCTCATTTCAACTCTTCTAATGAGGAACAAAGATCAAACACACCCATTGGTG
ACTACCCATCTAGGGCAAAAATTTCTGGCCAAAACAGCAGCGTTCGGGGAAGAGGAATTACCCGCTTACT
AGAGAGCATTTCCAATTCTTCCAGCAATATCCACAAATTCTCCAACTGTGACACTTCACTCTCACCTTAC
ATGTCCCAAAAAGATGGATACAAATCTTTCTCTTCCTTATCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC205954 protein sequence
Red=Cloning site Green=Tags(s)

MPNRKASRNAYYFFVQEKIPELRRRGLPVARVADAIPYCSSDWALLREEEKEKYAEMAREWRAAQGKDPG
PSEKQKPVFTPLRRPGMLVPKQNVSPPDMSALSLKGDQALLGGIFYFLNIFSHGELPPHCEQRFLPCEIG
CVKYSLQEGIMADFHSFINPGEIPRGFRFHCQAASDSSHKIPISNFERGHNQATVLQNLYRFIHPNPGNW
PPIYCKSDDRTRVNWCLKHMAKASEIRQDLQLLTVEDLVVGIYQQKFLKEPSKTWIRSLLDVAMWDYSSN
TRCKWHEENDILFCALAVCKKIAYCISNSLATLFGIQLTEAHVPLQDYEASNSVTPKMVVLDAGRYQKLR
VGSSGFSHFNSSNEEQRSNTPIGDYPSRAKISGQNSSVRGRGITRLLESISNSSSNIHKFSNCDTSLSPY
MSQKDGYKSFSSLS

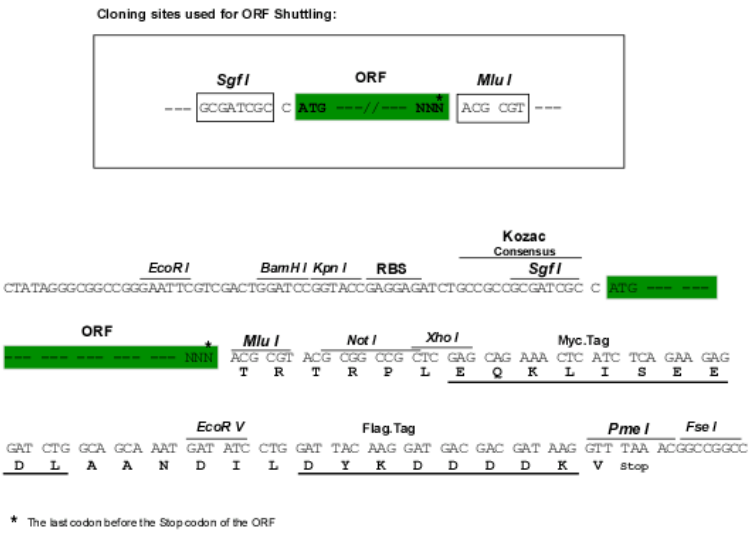
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6320_f07.zip

Restriction Sites: SgfI-MluI

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

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: 1942 bp

RefSeq ORF: 1305 bp

Locus ID: 84944

UniProt ID: Q96JY0

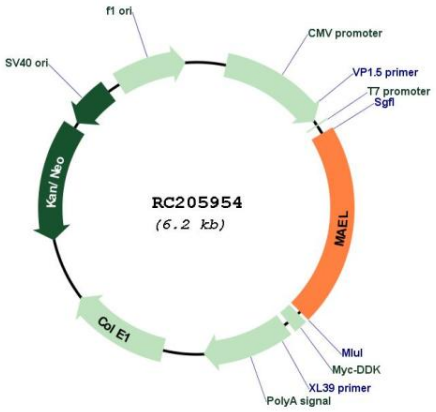
Cytogenetics: 1q24.1

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

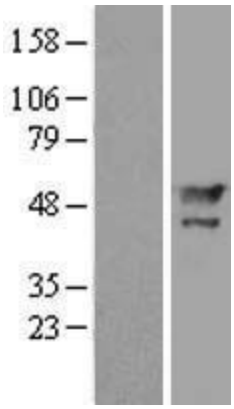
MW: 49.2 kDa

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 RC205954



Western blot validation of overexpression lysate (Cat# [LY409892]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205954 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US