

## Product datasheet for **RC237846**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MAEL (NM_001286378) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MAEL
Synonyms:	CT128; SPATA35
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC237846 representing NM_001286378 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGCTCGAGAATGGAGGGCCGCTCAGGAAAGGACCCTGGGCCCTCAGAGAAGCAGAAACCTGTTTTCA  
CACCAGTGAAGGAGCCAGGCATGCTGTACCAAAGCAGAATGTTTCACCTCCAGATATGTCAGCTTTGTC  
TTTAAAAGGTGATCAAGCTCTCCTTGGAGGCATTTTTTATTTTTGAACATTTTTAGCCATGGCGAGCTA  
CCTCCTCATTGTGAACAGCGCTTCTCCCTTGTGAAATTGGCTGTGTTAAGTATTCTCTCCAAGAAGGTA  
TTATGGCAGATTTCCACAGTTTTATAAATCCTGGTGAATTCACGAGGATTTGATTTTCATTGTCAGGC  
TGCAAGTGATTCTAGTCAACAAGATTCCTATTTCAAATTTGAACGTGGGCATAACCAAGCAACTGTGTTA  
CAAAACCTTTATAGATTTATTCATCCCAACCCAGGGAAGTGGCCACCTATCTACTGCAAGTCTGATGATA  
GAACCAGAGTCAACTGGTGTGTTGAAGCATATGGCAAAGGCATCAGAAATCAGGCAAGATCTACAATTCT  
CACTGTAGAGGACCTTGTAGTGGGATCTACCAACAAAAATTTCTCAAGGAGCCCTTAAGACTTGGATT  
CGAAGCCTCCTAGATGTGGCCATGTGGGATTATCTAGCAACACAAGGTGCAAGTGGCATGAAGAAAATG  
ATATTCTTTCTGTGCTTGTAGCTGTTTGAAGAAGATTGCGTACTGCATCAGTAATTCTCTGGCCACTCT  
CTTTGGAATCCAGCTCACAGAGGCTCATGTACCACTACAAGATTATGAGGCCAGCAATAGTGTGACACCC  
AAAATGGTTGATTGGATGCAGGGCCTTACCAGAAGCTAAGGGTTGGGAGTTCAGGATTCTCTCATTTC  
ACTCTTCTAATGAGGAACAAAGATCAAACACACCCATTGGTACTACCCATCTAGGGCAAAAAATTTCTGG  
CCAAAACAGCAGCGTTCGGGGAAGAGGAATTACCCGCTTACTAGAGAGCATTTCCAATTCTCCAGCAAT  
ATCCACAAATTCTCAACTGTGACACTTCACTCTCACCTTACATGTCCCAAAAAGATGGATACAAATCTT  
TCTCTTCTTATCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC237846 representing NM\_001286378  
Red=Cloning site Green=Tags(s)

MAREWRAAQKDPGPSEKQKPVFTPLRRPGMLVPKQNVSPDMSALSLKGDQALLGGIFYFLNIFSHGEL  
 PPHCEQRFLPCEIGCVKYSLQEGIMADFHSEINPGEIPRGFRFHCQAASDSSHKIPISNFERGHNQATVL  
 QNLYRFIHPNPGNWPIIYCKSDDRTRVNWCLKHMAKASEIRQDLQLLTVEDLVVGIYQKFLKEPSKTWI  
 RSLLDVAMWDYSSNTRCKWHEENDILFCALAVCKKIAYCISNSLATLFGIQLTEAHVPLQDYEASNSVTP  
 KMVVLDAGRYQKLRVSSGF SHFNSSNEEQRSNTPIGDYPSRAKISGQNSVVRGRGITRLLLESISNSSN  
 IHKFSNCDTSLSPYMSQKDGYSFSSLS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

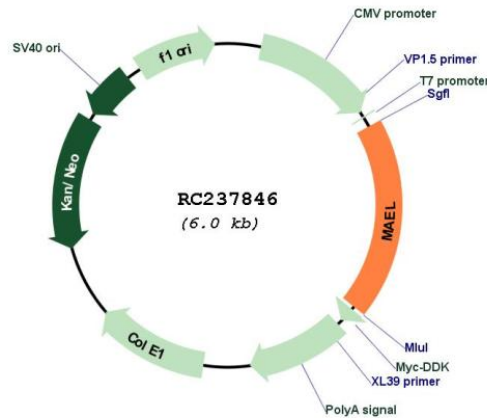
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001286378

<b>ORF Size:</b>	1134 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001286378.1</a> , <a href="#">NP_001273307.1</a>
<b>RefSeq Size:</b>	1715 bp
<b>RefSeq ORF:</b>	1137 bp
<b>Locus ID:</b>	84944
<b>UniProt ID:</b>	<a href="#">Q96JY0</a>
<b>Cytogenetics:</b>	1q24.1
<b>MW:</b>	43 kDa
<b>Gene Summary:</b>	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]