

## Product datasheet for **RC238004**

### MAEL (NM\_001286377) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MAEL (NM_001286377) 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:	>RC238004 representing NM_001286377 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGCCGAACCGTAAGGCCAGCCGGAATGCTTACTATTTCTTCGTGCAGGAGAAGATCCCCGAACACGGC  
GACGAGGCTGCCTGTGGCTCGCGTTGCTGATGCCATCCCTACTGCTCCTCAGACTGGCGAAACCTGT  
TTTCACACCAGTGAAGGATCAAGCTCCTTGGAGGCATTTTTATTTTTGAACATTTTTAGCCATGGCC  
AGCTACCTCCTCATTGTGAACAGCGCTTCTCCCTTGTGAAATTGGCTGTGTTAAGTATTCTCTCAAGA  
AGGTATTATGGCAGATTTCCACAGTTTTATAAATCCTGGTCAAATTCCACGAGGATTTCCGATTTCAATGT  
CAGGCTGCAAGTATTCTAGTCAAGATTCCTATTTCAAATTTGAACGTGGCCATAACCAAGCAACTG  
TGTTACAAAACCTTTATAGATTTATTCATCCCAACCCAGGGAACGGCCACCTATCTACTGCAAGTCTGA  
TGATAGAACCAGAGTCAACTGGTGTGTTGAAGCATATGGCAAAGGCATCAGAAATCAGGCAAGATCTACAA  
CTTCTCACTGTAGAGGACCTGTAGTGGGATCTACCAACAAAAATTTCTCAAGGAGCCCTCAAGACTT  
GGATTGCAAGCCCTCCTAGATGTGGCCATGTGGATTATTCTAGCAACACAAGTGCAGTGGCATGAAGA  
AAATGATATTCTCTTCTGTGCTTTAGCTGTTGCAAGAAGATTGCGTACTGCATCAGTAATTCTCTGGCC  
ACTCTCTTTGGAATCCAGCTCACAGAGGCTCATGTACCACTACAAGATTATGAGGCCAGCAATAGTGTGA  
CACCCAAAATGGTTGATTGGATGCAGGGCGTTACCAGAAGCTAAGGGTTGGGAGTTCAGGATTCTCTCA  
TTTCAACTCTTCTAATGAGGAACAAAGATCAAACACACCCATTGGTGACTACCACTAGGGCAAAAATT  
TCTGGCCAAAACAGCAGCGTTCGGGAAGAGGAATTACCCGCTTACTAGAGAGCATTTCCAATTCTTCCA  
GCAATATCCAAAATTCTCCAAGTGTGACACTTCACTCTACCTTACATGTCCAAAAGATGGATACAA  
ATCTTTCTCTTCTTATCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC238004 representing NM\_001286377  
Red=Cloning site Green=Tags(s)

MPNRKASRNAYFFVQEKIPELRRRGLPVARVADAIPYCSDWAKPVFTPLRRPGMLVPKQNVSPDMSA  
 LSLKGDQALLGGIFYFLNIFSHGELPPHCEQRFLPCEIGCVKYSLQEGIMADHFSFINPGEIPRGFRFHC  
 QAASDSSHKIPI SNFERGHNQATV LQNL YRF IHPNPGNWPP IYCK SDDRTRVNWCLKHMMAKASEIRDLQ  
 LLTVEDLVVGIYQKFLKEPSKTWIRSLLDVAMWDYSSNTRCKWHEENDILFCALAVCKKIAYCISNSLA  
 TLFGIQLTEAHVPLQDYEASNSVTPKMOVLDAGRYQKLRVGS SFGFSHFNSNEEQRSNTPIGDYP SRAKI  
 SGQNSSVRGRGITRLLESISNSSSNIHKFSNCDTSLSPYMSQKDGYSFSSLS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

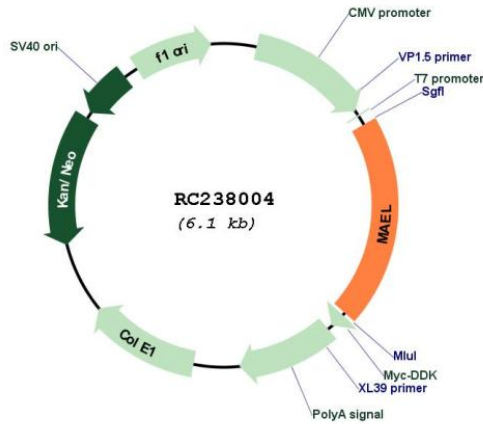
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001286377

<b>ORF Size:</b>	1209 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_001286377.1</a> , <a href="#">NP_001273306.1</a>
<b>RefSeq Size:</b>	1849 bp
<b>RefSeq ORF:</b>	1212 bp
<b>Locus ID:</b>	84944
<b>UniProt ID:</b>	<a href="#">Q96JY0</a>
<b>Cytogenetics:</b>	1q24.1
<b>MW:</b>	46 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]