

## Product datasheet for **SC303649**

### MAGEC1 (NM\_005462) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MAGEC1 (NM_005462) Human Untagged Clone
Tag:	Tag Free
Symbol:	MAGEC1
Synonyms:	CT7; CT7.1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_005462 edited  
 AGGACCTGAGGCATTTTGTGACGAGGATCGTCTCAGGTCAGCGGAGGGAGGAGACTTATA  
 GACCTATCCAGTCTTCAAGGTGCTCCAGAAAGCAGGAGTTGAAGACCTGGGTGTGAGGGA  
 CACATACATCCTAAAAGCACACAGCAGAGGAGGCCAGGCAAGTCCAGGAGTCAAGGTT  
 CCCAGAAGACAAAACCCCTAGGAAGACAGGCGACCTGTGAGGCCCTAGAGCACCACCTTA  
 AGAGAAGAAGAGCTGTAAGCCGGCCTTTGTGAGAGCCATCATGGGGACAAGGATATGCC  
 TACTGCTGGGATGCCGAGTCTTCTCCAGAGTTCCTCTGAGAGTCCCTCAGAGTTGCTCTGA  
 GGGGGAGGACTCCAGTCTCCTCTCCAGATTCCCAGAGTTCTCCTGAGAGCGACGACAC  
 CCTGTATCCTCTCCAGAGTCCCTCAGAGTCGTTCTGAGGGGGAGGACTCCTCGGATCCTCT  
 CCAGAGACCTCCTGAGGGGAAGGACTCCAGTCTCCTCTCCAGATTCCCAGAGTTCTCC  
 TGAGGGCGACGACACCCAGTCTCCTCTCCAGAATTCTCAGAGTTCCTGAGGGGAAGGA  
 CTCCTGTCTCCTCTAGAGATTTCTCAGAGCCCTCCTGAGGGTGAGGATGTCCAGTCTCC  
 TCTGCAGAATCCTGCGAGTTCCTTCTTCTCCTCTGCTTTATTGAGTATTTTCCAGAGTTC  
 CCCTGAGAGTACTCAAAGTCCTTTTGGGGTTTTCCCCAGTCTGTTCTCCAGATTCCTGT  
 GAGCGCCGCTCCTCCTCCACTTTAGTGAGTATTTTCCAGAGTCCCCTGAGAGTACTCA  
 AAGTCCTTTTGGGGTTTTGCCAGTCTCCACTCCAGATTCCTGTGAGCCCTCCTTCTC  
 CTCCACTTTATTGAGTATTTTCCAGAGTCCCCTGAGAGAACTCAGAGTACTTTTGGGG  
 TTTTGCACAGTCTCCTCTCCAGATTCCTGTGAGCCCTCCTTCTCCTCCACTTTACTGAG  
 TCTTTTCCAGAGTTTCTCTGAGAGAACTCAGAGTACTTTTGGGGTTTTGCCAGTCTTC  
 TCTCCAGATTCCTGTGAGCCCTCCTTCTCCTCCACTTTAGTGAGTCTTTTCCAGAGTTC  
 CCCTGAGAGAACTCAGAGTACTTTTGGGGTTTTCCCCAGTCTCCTCTCCAGATTCCTGT  
 GAGCTCCTCCTCCTCCACTTTATTGAGTCTTTTCCAGAGTCCCCTGAGAGAACTCA  
 CAGTACTTTTGGGGTTTTCCCCAGTCTCTTCTCCAGATTCCTATGACCTCCTCCTTCTC  
 CTACTTTTATTGAGTATTTTCCAGAGTCTCCTGAGAGTGTCAAAGTACTTTTGGGG  
 TTTTCCCCAGTCTCCTCTCCAGATTCCTGGGAGCCCTCCTTCTCCTCCACTTTACTGAG  
 TCTTTTCCAGAGTCCCCTGAGAGAACTCACAGTACTTTTGGGGTTTTCCCCAGTCTCC  
 TCTCCAGATTCCTATGACCTCCTCCTTCTCCTCTACTTTATTGAGTATTTTACAGAGTTC



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TCCTGAGAGTGCTCAAAGTGCTTTTGAGGGTTTTCCCCAGTCTCCTCTCCAGATTCTGT  
 GAGCTCCTCTTTCTCCTACACTTTATTGAGTCTTTCCAGAGTCCCCTGAGAGAACTCA  
 CAGTACTTTTGAGGGTTTTCCCCAGTCTCCTCTCCAGATTCTGTGAGCTCCTCCTCCTC  
 CTCCTCCACTTTATTGAGTCTTTCCAGAGTCCCCTGAGTGTACTCAAAGTACTTTTGA  
 GGGTTTTCCCCAGTCTCCTCTCCAGATTCTCAGAGTCCCTCTGAAGGGGAGAATACCCA  
 TTCTCCTCTCCAGATTGTTCCAAGTCTTCTGAGTGGGAGGACTCCCTGTCTCCTACTA  
 CTTTCTCAGAGCCCTCCTCAGGGGGAGGACTCCCTATCTCCTACTACTTTCTCCTCAGAG  
 CCCTCCTCAGGGGGAGGACTCCCTGTCTCCTCACTACTTTCTCCTCAGAGCCCTCAGGGGA  
 GGACTCCCTGTCTCCTCACTACTTTCTCAGAGCCCTCCTCAGGGGGAGGACTCCATGTC  
 TCCTCTCACTTTCTCAGAGTCCCTTTCAGGGGGAGGAATTCCAGTCTTCTCTCCAGAG  
 CCCTGTGAGCATCTGCTCCTCCTCCACTCCATCCAGTCTTCCCAGAGTTTCCCTGAGAG  
 TTCTCAGAGTCCCTGAGGGGCTGTCCAGTCTCCTCTCCATAGTCTCAGAGCCCTCC  
 TGAGGGGATGCACTCCCAATCTCCTCTCCAGAGTCTGAGAGTGTCTGAGGGGGAGGA  
 TTCCCTGTCTCCTCTCCAAATCTCCTCTCCAGAGTCTTGGAGGGAGGACTCCCTGTCTTC  
 TCTCCATTTTCTCAGAGTCTCCTGAGTGGGAGGACTCCCTCTCTCCTCTCCACTTTCC  
 TAGTTTTCTCCTCAGGGGGAGGACTTCCAGTCTTCTCTCAGAGTCTGTGAGTATCTG  
 CTCTCCTCCACTTCTTTGAGTCTTCCCAGAGTTTCCCTGAGAGTCTCAGAGTCTCC  
 TGAGGGGCTGTCTCAGTCTCCTCTCCAGAGACCTGTCTCAGTCTTCTTCTCCTACTTTT  
 AGCGAGTCTTCTCAAAGTTCCCATGAGAGTCTCAGAGTCTCCTGAGGGGCTGCCCA  
 GTCTCCTCTCCAGAGTCTGTGAGTCTTCCCCTCCTCCACTTCATCGAGTCTTTCCCA  
 GAGTCTCCTGTGAGTCTTCCCCTCCTCCACTTCATCGAGTCTTCCAAGAGTTCCCC  
 TGAGAGTCTCCTCAGAGTCTGTGATCTCCTTCTCCTCCTCCACTTCATTGAGCCATT  
 CAGTGAAGAGTCCAGCAGCCAGTAGATGAATACAAGTTCTCAGACACCTTGCTAGA  
 GAGTGATTCTTTGACAGACAGCGAGTCTTGTATAGAGAGCGAGCCCTTGTTCATTATAC  
 ACTGGATGAAAAGGTGGACGAGTTGGCGCGGTTTCTTCTCCTCAAATATCAAGTGAAGCA  
 GCCTATCAAAAGGCAGAGATGCTGACGAATGTCATCAGCAGGTACACGGGCTACTTTCC  
 TGTGATCTTCAGGAAAGCCCGTGTGATTCATAGAGATACTTTTTGGCATTTCCTGAGAGA  
 AGTGGACCCTGATGACTCCTATGTCTTTGTAACACATTAGACCTCACCTCTGAGGGGTG  
 TCTGAGTATGAGCAGGGCATGTCCAGAACCCTCCTGATTCTTATTCTGAGTATCAT  
 CTTCATAAAGGGACCTATGCCTCTGAGGAGTCTCTGGGATGTGCTGAGTGAATAGG  
 GGTGCGTCTGGGAGGGAGCACTTTGCCCTTGGGGAGCCAGGGAGCTCCTCACTAAAGT  
 TTGGGTGCAGGAACATTACCTAGAGTACCGGGAGGTGCCAACTTCTCCTCCTCGTTA  
 CGAATTCCTGTGGGGTCCAAGAGCTCATTACAGAGTCAATTAAGAGGAAAGTAGTAGATT  
 TTTGGCCATGCTAAAGAATACCGTCCCTATTACCTTTCCATCCTTTACAAGGATGCTTT  
 GAAAGATGTGGAAGAGAGAGCCAGGCCATAATTGACACCACAGATGATTCGACTGCCAC  
 AGAAAGTGCAAGTCCAGTGTATGTCCCCAGCTTCTTCTGAGTGAAGTCTAGGGCA  
 GATTCTTCCCTCTGAGTTTGAAGGGGCGAGTTCGAGTTTCTACGTGGTGGAGGGCTGGTT  
 GAGGCTGGAGAGAACACAGTGTATTTGCATTTCTGTTCCATATGGGTAGTTATGGGGTT  
 TACCTGTTTTACTTTTGGGTATTTTTCAAATGCTTTTCTTATTAATAACAGGTTTAAATA  
 GCTTCAGAACTCTAGTTTATGCACATGAGTCGCACATGATTGCTGTTTTTCTGGTTTAA  
 GAGTAACAGTTTGTATTTTTGTA AAAAACAAAAACACCCAAACACACCATTGGGAAA  
 ACCTTCTGCCTCATTGTGATGTGCACAGTTAATGTGGTGTACTGTAGGAATTTTC  
 TTGAAACTGTGAAGGAACTCTGCAGTTAAATAGTGAATAAAGTAAAGGATTGTTAATGT  
 TTGCAAAAAAAAAAAAAAAAAAAAA

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_005462 unedited  
 GTCAAAATTTGTATACGCACTCACTATAGGCGGCCGNAATTCGCACCAAAGACCTGAG  
 GCATTTTGTGACGAGGATCGTCTCAGGTGAGCGGAGGGAGGAGACTTATAGACCTATCCA  
 GTCTTCAAGGTGCTCCAGAAAGCAGGAGTTGAAGACCTGGGTGTGAGGGACACATACATC  
 CTAAGACACACAGCAGAGGAGGCCAGGCAAGTCCAGGAGTCAAGGTTCCAGAAAGAC  
 AAACCCCTAGGAAGACAGGCGACCTGTGAGGCCCTAGAGCACCACCTTAAGAGAAGAAG  
 AGCTGTAAGCCGCTTTGTGAGAGCCATCATGGGGGACAAGGATATGCCTACTGCTGGG  
 ATGCCGAGTCTTCTCCAGAGTTCCTCTGAGAGTCCCTCAGAGTTGCTGAGGGGGAGGAC  
 TCCAGTCTCCTCTCCAGATTCCCAGAGTTCTCCTGAGAGCGACGACACCCTGTATCCT  
 CTCAGAGTCTCAGAGTCGTTCTGAGGGGGAGGACTCCTCGGATCCTCTCCAGAGACCT  
 CCTGAGGGGAAGGACTCCAGTCTCCTCTCCAGATTCCCAGAGTTCTCCTGAGGGCGAC  
 GACACCCAGTCTCCTCTCCAGAATTCTCAGAGTCTCCTGAGGGGAAGGACTCCCTGTCT  
 CCTCTAGAGATTTCTCAAAGCCCTCCTGGAGGTGAGGATGTCCAGTCTCCTCTGCAGAAT  
 CCTGCGAGTTCTTCTCCTCTGGCTTATTGAGTATTTCCAGAGATTCCTGAGAGT  
 ACTCAAAGTCCTTTTGGGGTTTTCCCATCCTGTTCTCCAGATTCTGGTAAACGCC  
 CC

**3' Read Nucleotide Sequence:**

>OriGene 3' genomic read for NM\_005462 unedited  
 CCTCCCCATGGGAGGCAACTTTCCAGNCCAGNAAAGCACTGGGNAGGGTCACAGGG  
 ATGCCACCCGGGACTGTTCCAGAAACAGCTATGACCGCGCCGAATCTAGAGTCGAGT  
 TTTTTTTTTTTTTTTTGCAAACATTAACAATCCTTTACTTTTATCCACTATTTAACTGC  
 AGAGTTCCTTACAGTTTCAAGAAAATCCTACAGTAACACCACATTAACCTGTGACACA  
 TCACAAAATGAGGCAGAAGGTTTTCCCAATGTGGTGTGTTTGGGTGTGTTTTGTTTTTA  
 CAAAATATCAAAGTACTCTTAAACCAGAAAAACAGCAATACATGTGCGACTCATGTG  
 CATAAACTAGGATTCTGAAGCTATTTAACTGTTATTAATAGGAAAAGCATTGAAAAA  
 TACCCAAAAGTAAAACAGGTAACCCCACTAACTACCCATATGGAACAGAAATGCAATAG  
 CACTGTGTTCTCTCCAGCCTCAACCAGGCCCTCCACCACGTAGAAACTCGACTGCCCT  
 TCAAACCTCAGAGGAAGAATCTGCCCTAGACTTCACTCAGAAGAGAAGCTGGGGACATG  
 ACACTGGAGCTTGCACTTTCTGTGGCAGTCAATCATCTGTGGTGTCAATTATGGCCTGN  
 GCTCTCTTCCACATCTTTCAAAGCATCCTTGTAAAGAGGATGGAAAGGTAATAGGGACG  
 GTATTCTTTAGCATGGCCAAAACCTACTACTTTCTCTTAATGACTTCTGAATGAGCT  
 CTTGGACCCACAGGAATTTCTGACGAGGAGGAGAAGGTTGGGCACCTNCCGCTACTCT  
 AGGTAATGTTCTGCACCCAACTTTTAGTGAGAG

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_005462

**Insert Size:**

4200 bp

<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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></p>
<b>OTI Annotation:</b>	<p>There is 3 nucleotide difference between the OriGene clone and the NCBI reference ORF. These result in the substitution of 1 aa and insertion of 3 aa.</p>
<b>Components:</b>	<p>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).</p>
<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>	<p><a href="#">NM_005462.3</a>, <a href="#">NP_005453.2</a></p>
<b>RefSeq Size:</b>	<p>4279 bp</p>
<b>RefSeq ORF:</b>	<p>3429 bp</p>
<b>Locus ID:</b>	<p>9947</p>
<b>UniProt ID:</b>	<p><a href="#">O60732</a></p>
<b>Cytogenetics:</b>	<p>Xq27.2</p>
<b>Gene Summary:</b>	<p>This gene is a member of the melanoma antigen gene (MAGE) family. The proteins of this family are tumor-specific antigens that can be recognized by autologous cytolytic T lymphocytes. This protein contains a large number of unique short repetitive sequences in front of the MAGE-homologous sequence, and therefore is about 800 aa longer than the other MAGE proteins. [provided by RefSeq, Jul 2008]</p>