

## Product datasheet for **SC301576**

### **MAGEA4 (NM\_001011548) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MAGEA4 (NM_001011548) Human Untagged Clone
Tag:	Tag Free
Symbol:	MAGEA4
Synonyms:	CT1.4; MAGE-41; MAGE-X2; MAGE4; MAGE4A; MAGE4B
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>OriGene sequence for SC322468

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GTTAGAGAGAAGCGAGCTGCTGTCTGACCAGCAGCTTGGGATTGGTGAAGGAAGCAGGC
CAGGCCCTGTGAGGAGTCAAGGTTCTGAGCAGACAGGCCAACCGAGGACAGGATTCCCT
GGAGGCCACAGAGGAGCACAAGGAGAAGATCTGCCTGTGGGTCCCCATTGCCAGCTTT
TGCCTGCACTCTTGCCTGCTGCCCTGAGCAGAGTCATCATGTCTTCTGAGCAGAAGATC
AGCACTGCAAGCCTGAGGAAGGCGTTGAGGCCCAAGAAGAGGCCCTGGGCTGGTGGTG
CACAGGCTCCTACTACTGAGGAGCAGGAGGCTGCTGTCTCCTCCTCCTCCTCTGGTCC
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GAGCCTCTGCCTTACCCACTACCATCAGCTTCACTTGCTGGAGGCAACCAATGAGGGTT
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CGCGCTATGAGTTCCTGTGGGGTCCAAGGGCTCTGGCTGAAACCAGCTATGTGAAAGTCC
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TTTCTATTTTGTGGATGACTTGGAGATTATCTCTGTTTCTTTTACAATTGTTGAAAT
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GTATATTGCTGTTAATATAGTTTAGGAGTAAGAGTCTTGTTTTTTATTAGATTGGGAAA
TCCGTTCTATTTTGTGAATTTGGGACATAATAACAGCAGTGGAGTAAGTATTTAGAGTG
TGAATTCACCGTGAAATAGGTGAGATAAATTAAGATACTTAATTCCTGCTTATGCCT
CAGTCTATTCTGTAAAATTTAAAAATATATATGCATACCTGGATTTCTTGGCTTCGTG
AATGTAAGAGAAATTAATCTGAATAAATAATTCTTCTGTTAAAAA
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<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_001011548
<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>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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_001011548.1</a> , <a href="#">NP_001011548.1</a>
<b>RefSeq Size:</b>	1724 bp
<b>RefSeq ORF:</b>	954 bp
<b>Locus ID:</b>	4103
<b>UniProt ID:</b>	<a href="#">P43358</a>
<b>Cytogenetics:</b>	Xq28

**Gene Summary:**

This gene is a member of the MAGEA gene family. The members of this family encode proteins with 50 to 80% sequence identity to each other. The promoters and first exons of the MAGEA genes show considerable variability, suggesting that the existence of this gene family enables the same function to be expressed under different transcriptional controls. The MAGEA genes are clustered at chromosomal location Xq28. They have been implicated in some hereditary disorders, such as dyskeratosis congenita. Several variants encoding the same protein have been found for this gene. [provided by RefSeq, Aug 2020]

Transcript Variant: This variant (1) has the 5'-most exon compared to variants 2-4. All four variants encode the same protein.