

Product datasheet for **RC214066**

MAGED2 (NM_201222) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAGED2 (NM_201222) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MAGED2
Synonyms:	11B6; BARTS5; BCG-1; BCG1; HCA10; MAGE-D2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC214066 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTGTACACAAGCGAGAGTGGTGCAGGTCTAACTCGCTTCCAGGCTGAAGCTTCAGAAAAGGACAGTA
 GCTCGATGATGCAGACTCTGTTGACAGTGACCCAGAATGTGGAGGTCCCAGAGACACCGAAGGCCTCAAA
 GGCACTGGAGGTCTCAGAGGATGTGAAGGTCTCAAAAGCCTCTGGGGTCTCAAAGGCCACAGAGGTCTCA
 AAGACCCAGAGGCTCGGGAGGCACCTGCCACCCAGGCCTCGTCTACTACTCAGCTGACTGATACCCAGG
 TTCTGGCAGCTGAAAACAAGAGTCTAGCAGCTGACACCAAGAAACAGAATGCTGACCCGACGGCTGTGAC
 AATGCCTGCCACTGAGACCAAAAAGGTGAGCCATGTGGCTGATACGAAGGTCAATACAAAGGCTCAGGAG
 ACTGAGGCTGCACCTCTCAGGCCCCAGCAGATGAACCTGAGCCTGAGAGTGCAGCTGCCAGTCTCAGG
 AGAATCAGGATACTCGGCCAAGGTCAAAGCCAAGAAAGCCGAAAGGTGAAGCATCTGGATGGGAAGA
 GGATGGCAGCAGTGATCAGAGTCAAGGCTTCTGGAACACAGGTGGCCGAAGGGTCTCAAAGGCTCTAATG
 GCCTCAATGGCCCGCAGGGCTTCAAGAGGTCCCATAGCCTTTTGGGCCCGCAGGGCATCAAGGACTCGGT
 TGGCTGCTTGGGCCCGGAGAGCCTTGCTCTCCCTGAGATCACCTAAAGCCCGTAGGGGCAAGGCTCGCCG
 TAGAGCTGCCAAGCTCCAGTCAATCCCAAGGCCTGAAGCACCACCACCTCGGGATGTGGCCCTTTTGCAA
 GGGAGGGCAATGATTTGGTGAAGTACCTTTTGGCTAAAGACCAGACGAAGATCCCATCAAGCGCTCGG
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 TTTGGAGAAGGTATTTGGGATTCAATTGAAGGAAATTGATAAGATGACCACTTGATATTCTTCTCAGC
 ACCTTAGAGCCCACTGATGCAGGCATACTGGGAACGACTAAGGACTCACCAAGCTGGGTCTGCTCATGG
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 GTTGGGGCTGCGCCCTGGGATACATCATTCACCTTTTGGGGACGTGAAGAAGCTCATCACTGATGATTTT
 GTGAAGCAGAAGTACCTGGACTATGCCAGAGTCCCAATAGCAATCCCCCTGAATATGAGTTCTTCTGGG
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 TCCCAAGGAATGGGCAGCTCAGTACCGAGAGGCGATGGAAGCGGATTTGAAGGCTGCAGCTGAGGCTGCA
 GCTGAAGCCAAGGCTAGGGCCGAGATTAGAGCTCGAATGGGTATTGGGCTCGGCTCGGAGAATGCTGCCG
 GGCCCTGCAACTGGGACGAAGCTGATATCGGACCCTGGGCCAAAGCCCGGATCCAGGCGGGAGCAGAAGC
 TAAAGCCAAGGCCAAGAGAGTGGCAGTGCCAGCACTGGTGCCAGTACCAGTACCAATAACAGTGCCAGT
 GCCAGTGCCAGCACCAGTGGTGGCTTCAGTGCTGGTGCCAGCCTGACCGCACTCTCACATTTGGGCTCT
 TCGCTGGCCTTGGTGGAGCTGGTGCCAGCACCAGTGGCAGCTCTGGTGCCTGTGGTTTCTCTACAAG

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC214066 protein sequence
 Red=Cloning site Green=Tags(s)

MSDTSSEAGLTRFQAEASEKSSMMQTLLTVTQNVEVPETPKASKALEVSEDVKVSKASGVSKATEVS
 KTPEAREAPATQASSTTQLTDTQVLAENKSLAADTKKQNPQAVTMPATETKKVSHVADTKVNTKAQE
 TEAAPSQAPADEPEPESAAAQSQENQDTRPKVKAKKARKVKHLDGEEDGSSDQSQASGTTGRRVSKALM
 ASMARRASRGPIAFWARRASRRLAAWARRALLSLRSPKARRGKARRRAAKLQSSQEPEAPPPRDVALLQ
 GRANDLVKYLAKDQTKIPIKRSMDLKDIIKEYTDVYPEIIERAGYSLEKVFQIQLKEIDKNDHLYILLS
 TLEPTDAGILGTTKDSPLKLLMVLLSIIFMNGNRSSEAVIWEVLRKLGRLPGIHHSLFGDVKKLITDEF
 VKQKYLKYARVPNSNPPEYEFFWGLRSYYETSKMKVLKFAKQVQKDPKEWAAQYREAMEADLKAAAEAA
 AEAKARAEIRARMGIGLSENAAGPCNWEADIGPWAKARIQAGAEAKAKAQESGSTASTSTNNSAS
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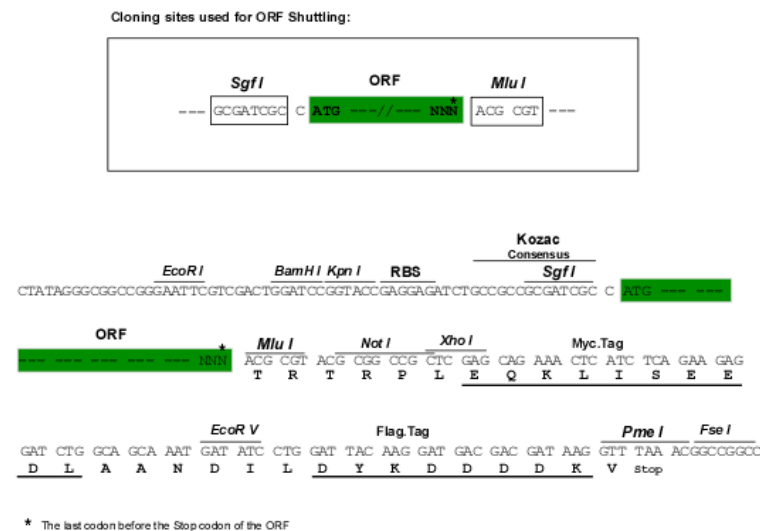
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6455_d12.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM 201222

ORF Size: 1818 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_201222.3

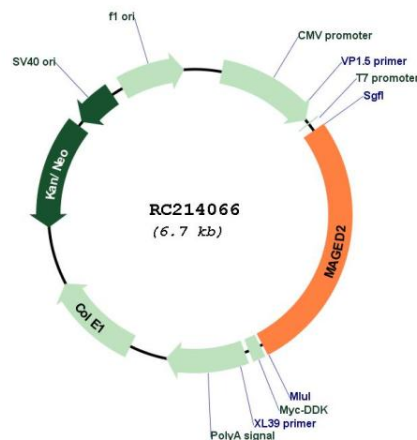
RefSeq Size: 2176 bp

RefSeq ORF: 1821 bp

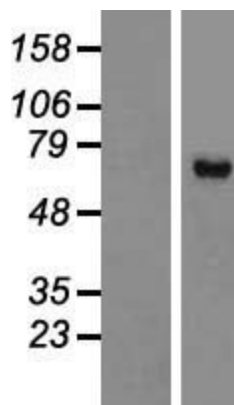
Locus ID: 10916
UniProt ID: [Q9UNF1](#)
Cytogenetics: Xp11.21
MW: 65 kDa

Gene Summary: This gene is a member of the MAGED gene family. The MAGED genes are clustered on chromosome Xp11. This gene is located in Xp11.2, a hot spot for X-linked intellectual disability (XLID). Mutations in this gene cause a form of transient antenatal Bartter's syndrome. This gene may also be involved in several types of cancer, including breast cancer and melanoma. The protein encoded by this gene is progressively recruited from the cytoplasm to the nucleoplasm during the interphase and after nucleolar stress and is thus thought to play a role in cell cycle regulation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2017]

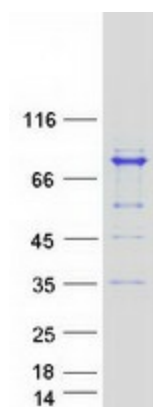
Product images:



Circular map for RC214066



Western blot validation of overexpression lysate (Cat# [LY404585]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214066 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MAGED2 protein (Cat# [TP314066]). The protein was produced from HEK293T cells transfected with MAGED2 cDNA clone (Cat# RC214066) using MegaTran 2.0 (Cat# [TT210002]).