

Product datasheet for **RG219260**

MAGED2 (NM_177433) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAGED2 (NM_177433) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MAGED2
Synonyms:	11B6; BARTS5; BCG-1; BCG1; HCA10; MAGE-D2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG219260 representing NM_177433
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGTACACAAGCAGAGTGGTGCAGGTCTAACTCGCTTCAGGCTGAAGCTTCAGAAAAGGACAGTA
 GCTCGATGATGCAGACTCTGTTGACAGTGACCCAGAATGTGGAGGTCCCAGAGACACCGAAGGCCTCAAA
 GGCACTGGAGGTCTCAGAGGATGTGAAGGTCTCAAAAGCCTCTGGGGTCTCAAAGGCCACAGAGGTCTCA
 AAGACCCAGAGGCTCGGGAGGCACCTGCCACCCAGGCCTCATCTACTACTCAGTGAAGTATACCCAGG
 TTCTGGCAGCTGAAAACAAGAGTCTAGCAGCTGACACCAAGAAACAGAATGCTGACCCGAGGCTGTGAC
 AATGCCTGCCACTGAGACCAAAAAGGTGAGCCATGTGGCTGATACAAAGGTCAATACAAAGGCTCAGGAG
 ACTGAGGCTGCACCTCTCAGGCCCCAGCAGATGAACCTGAGCCTGAGAGTGCAGCTGCCAGTCTCAGG
 AGAATCAGGATACTCGGCCAAGGTCAAAGCCAAGAAAGCCGAAAGGTGAAGCATCTGGATGGGAAGA
 GGATGGCAGCAGTGATCAGAGTCAAGGCTTCTGGAACACAGGTGGCCGAAGGGTCTCAAAGGCCCTAATG
 GCCTCAATGGCCCGCAGGGCTTCAAGGGGTCCCATAGCCTTTTGGGCCCGCAGGGCATCAAGGACTCGGT
 TGGCTGCTTGGGCCCGGAGAGCCTTGTCTCCCTGAGATCACCTAAAGCCGTAGGGGCAAGGCTCGCCG
 TAGAGCTGCCAAGCTCCAGTCAATCCCAAGGCCTGAAGCACCACCACCTCGGGATGTGGCCCTTTTGCAA
 GGGAGGGCAATGATTTGGTGAAGTACCTTTTGGCTAAAGACCAGACGAAGATCCCATCAAGCGCTCGG
 ACATGCTGAAGGACATCATCAAGAATACACTGATGTGTACCCCGAAATCATTGAACGAGCAGGCTATTC
 CTTGGAGAAGGTATTTGGGATTCATTTGAAGGAAATTGATAAGATGACCACTTGATATTCTTCTCAGC
 ACCTTAGAGCCCACTGATGCAGGCATCTGGAACGACTAAGGACTCACCAAGCTGGGTCTGCTCATGG
 TGCTTCTTAGCATCATCTTCATGAATGGAATCGGTCCAGTGAAGCTGTCATCTGGGAGGTGCTGCGCAA
 GTTGGGGCTGCGCCCTGGGATACATCATCACTCTTTGGGGACGTGAAGAAGCTCATCACTGATGAGTTT
 GTGAAGCAGAAGTACCTGGACTATGCCAGAGTCCCAATAGCAATCCCCCTGAATATGAGTTCTTCTGGG
 GCCTGCGCTCTTACTATGAGACCAGCAAGATGAAAGTCCTCAAGTTTGCCTGCAAGGTACAAAAGAAGGA
 TCCCAAGGAATGGGCAGCTCAGTACCGAGAGGCGATGGAAGCGGATTTGAAGGCTGCAGCTGAGGCTGCA
 GCTGAAGCCAAGGCTAGGGCCGAGATTAGAGCTCGAATGGGCATTGGGCTCGGCTCGGAGAATGCTGCCG
 GGCCCTGCAACTGGGACGAAGCTGATATCGGACCCTGGGCCAAAGCCCGGATCCAGGCGGGAGCAGAAGC
 TAAAGCCAAAGCCCAAGAGAGTGGCAGTGCCAGCACTGGTGCCAGTACCAGTACCAATAACAGTGCCAGT
 GCCAGTGCCAGCACCAGTGGTGGCTTCAGTGCTGGTGCCAGCCTGACCGCCACTCTCACATTTGGGCTCT
 TCGCTGGCCTTGGTGGAGCTGGTGCCAGCACCAGTGGCAGCTCTGGTGCCTGTGGTTTCTCTACAAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG219260 representing NM_177433
 Red=Cloning site Green=Tags(s)

MSDTSSEAGLTRFQAEASEKSSMMQTLLTVTQNVPEPETHKASKALEVSEDKVSKASGVSKATEVS
 KTEPEAREAPATQASSTTQLTDTQVLAENKSLAADTKKQNPQAVTMPATETKKVSHVADTKVNTKAQE
 TEAAPSQAPEPEPEPESAAAQSQENQDTRPKVKAKKARKVKHLDGEEDGSSDQSQASGTTGGRRVSKALM
 ASMARRASRGPIAFWARRASRTRLAAWARRALLSLRSPKARRGKARRRAAKLQSSQEPEAPPPRDVALLQ
 GRANDLVKYLAKDQTKIPIKRSMDLKDIIKEYTDVYPEIIERAGYSLEKVFGIQLKEIDKNDHLYILLS
 TLEPTDAGILGTTKDSPLKLLMVLLSIIIFMNGNRSSEAVIWEVLRKLGLRPGIHHSFLGVDVKLLITDEF
 VKQKYLIDYARVPNSNPPEYEFFWGLRSYYETSKMKVLKFACKVQKDPKEWAAQYREAMEADLKAAAEAA
 AEAKARAEIRARMGIGLSENAAGPCNWDADIGPWAKARIQAGAEAKAKAQESGASTGASTSTNNSAS
 ASASTSGGFSAGASLTATLTFGLFAGLGAGASTSGSSGACGFSYK

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_177433

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.

RefSeq: [NM_177433.3](#)

RefSeq Size: 2092 bp

RefSeq ORF: 1821 bp

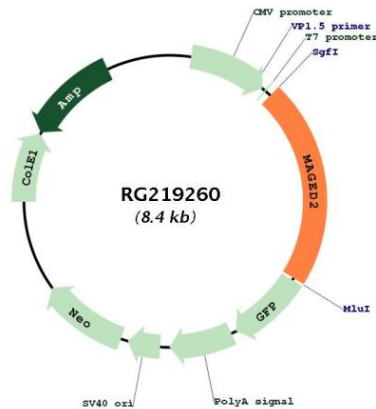
Locus ID: 10916

UniProt ID: [Q9UNF1](#)

Cytogenetics: Xp11.21

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 RG219260