

Product datasheet for RC229422

MAGEL2 (NM_019066) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAGEL2 (NM_019066) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MAGEL2
Synonyms:	NDNL1; nM15; PWLS; SHFYNG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC229422 ORF sequence, codon optimized . Due to the complexity of NM_019066, the ORF clone is codon optimized for mammalian Expression. The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

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CATCTCTCTCTCCCGAAACCCCAATGGCCATCCGCTCCCCCGGGACCCCTATGGCACAGCCCTG
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Protein Sequence: >RC229422 representing NM_019066
 Red=Cloning site Green=Tags(s)

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LREYKDECLDIINRANNKLECAFQYQLKEIDTKNHAYIIINKLGYHTGNLVASYLDRPKFGLLMVLSLI
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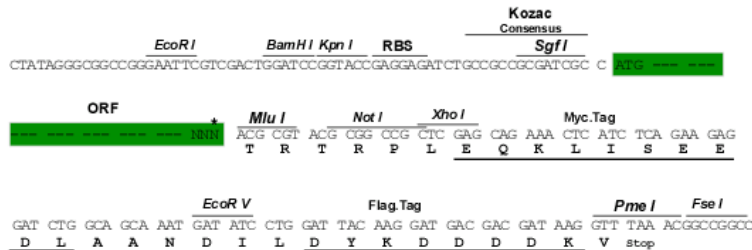
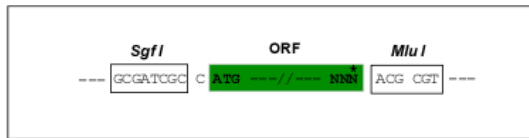
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



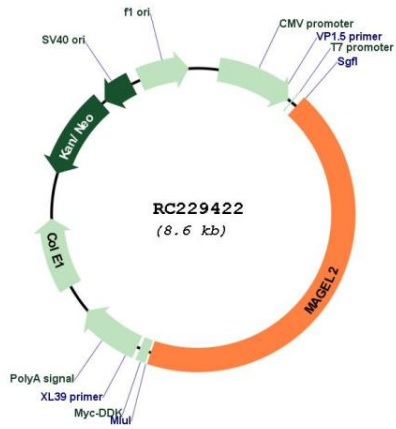
* The last codon before the Stop codon of the ORF

ACCN: NM_019066

ORF Size: 3747 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:	<ol style="list-style-type: none">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_019066.4 , NP_061939.3
RefSeq Size:	4319 bp
RefSeq ORF:	3750 bp
Locus ID:	54551
UniProt ID:	Q9UJ55
Cytogenetics:	15q11.2
MW:	132.8 kDa
Gene Summary:	Prader-Willi syndrome (PWS) is caused by the loss of expression of imprinted genes in chromosome 15q11-q13 region. Affected individuals exhibit neonatal hypotonia, developmental delay, and childhood-onset obesity. Necdin (NDN), a gene involved in the terminal differentiation of neurons, localizes to this region of the genome and has been implicated as one of the genes responsible for the etiology of PWS. This gene is structurally similar to NDN, is also localized to the PWS chromosomal region, and is paternally imprinted, suggesting a possible role for it in PWS. [provided by RefSeq, Oct 2010]

Product images:



Circular map for RC229422