

Product datasheet for RC207010

MAB21L1 (NM_005584) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	MAB21L1
Synonyms:	CAGR1; COFG; Nbla00126
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC207010 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGATTGCGGCCAGGCCAAGCTGGTCTACCATCTGAATAAATACTACAACGAAAAATGCCAAGCCAGGA
 AAGCTGCCATTGCCAAAATATCCGGGAAGTCTGCAAAGTAGTTCCGACGTACTGAAGGAAGTGGAAGT
 GCAGGAGCCGCGGTTTCATCAGCTCTCTCAACGAGATGGACAATCGCTACGAGGGCCTCGAGGTCTATCTCC
 CCCACCGAATTTGAAGTGGTGCTTTATCTCAACCAAATGGGGGTGTTCACTTCGTGGACGATGGCTCAC
 TGCCCGGCTGCGCGGTGCTGAAGTTGAGCGACGGGCGCAAGAGGAGCATGTCCTCTGGGTGGAATTCAT
 TACCGCCTCCGGCTACCTCTCGGCGCGCAAAATCCGGTCCAGGTTTCAGACGCTGGTGGCTCAAGCGGTA
 GACAAATGTAGCTACCGGATGTGGTAAAGATGGTGGCAGACACCAGCGAAGTGAAGTGAAGTCCGAG
 ATAGGTACGTGGTGCAGATCACGCCGGCCTTTAAATGCACCGGATCTGGCCGAGGAGTGTGCCACTG
 GCCACTTCCCACATCCCCTGGCCGGGACCAACCGGGTGGCGGAGGTCAAGGCGGAAGTTTCAATCTC
 TTGTCCAAGGAGTGCCACTCCTTGGCCGCAAGCAGAGCTCGGCGGAGAGCGACGCTGGGTGCTGCAGT
 TCGCGGAGGCAGAGAACAGACTGCAGATGGGGGCTGCAGAAAGAAGTGCCTCTCCATCTCAAACCTT
 AAGGGATCGTCACCTTGAAGTCCCGGGCCAGCCCTTGAACAATTACCATATGAAGACTCTGGTTTCTAC
 GAGTGTGAAAAGCATCCCGAGAGTCGACTGGGACGAGTCTTGCTGGGTGATCGGCTGAACGGGATTT
 TGCTGCAACTTATCTCCTGCCTGCAGTGCAGCGGTGTCCCACTACTTTCTACCGAACTTAGATCTGTT
 TCAAGGCAAACCTCACTCAGCTCTGAAAACGCTGCCAAACAAACGTGGCGACTGGCAAGAGAGATCCTG
 ACCAACCCGAAAAGTTTGAAAAACTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC207010 protein sequence
 Red=Cloning site Green=Tags(s)

MIAAQAKLVYHLNKYYNEKCQARKAAIAKTIREVCKVVSVDLKEVEVQEPRFISSLNEMDNRYEGLEVIS
 PTEFEVVL YLNQMGVFNFDGSLPGCAVLKLSGGRKRSMLWVEFITASGYLSARKIRSRFQTLVAQAV
 DKCSYRDVVKMVA DTSEVKLRIRDYVVQITPAFKCTGIWPRSAAHWPLPHIPWPGPNRVAEVKAEGFNL
 LSKECHSLAGKQSSAESDAWVLQFAEAENRLQMGGRKKCLSIKTLRDRHLELPGQPLNNYHMKTLVSY
 ECEKHPRESDWDESCLGDRNLGILLQLISCLQCRRCPHYFLPNLDFQGKPHSALENAAKQTWRLAREIL
 TNPKSLKEL

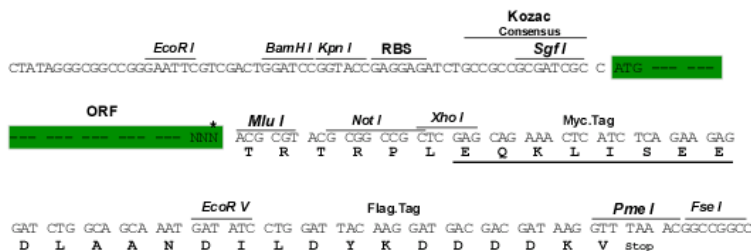
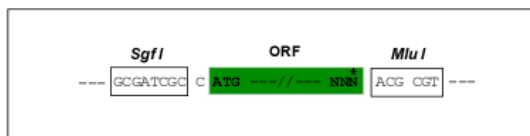
TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6333_e05.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 005584

ORF Size: 1077 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_005584.5](#)

RefSeq Size: 2907 bp

RefSeq ORF: 1080 bp

Locus ID: 4081

UniProt ID: [Q13394](#)

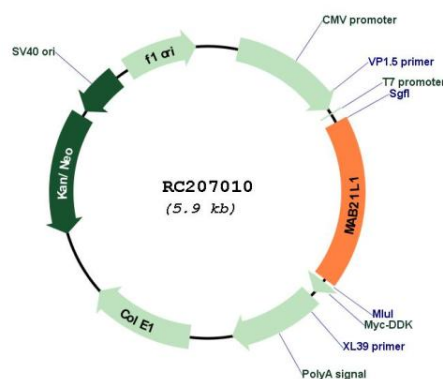
Cytogenetics: 13q13.3

Domains: Mab-21

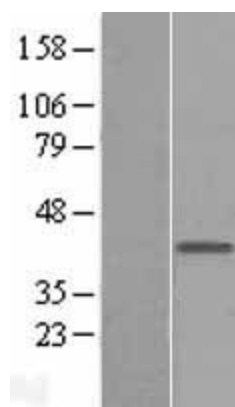
MW: 41 kDa

Gene Summary: This gene is similar to the MAB-21 cell fate-determining gene found in *C. elegans*. It may be involved in eye and cerebellum development, and it has been proposed that expansion of a trinucleotide repeat region in the 5' UTR may play a role in a variety of psychiatric disorders. [provided by RefSeq, Oct 2008]

Product images:



Circular map for RC207010



Western blot validation of overexpression lysate (Cat# [LY417209]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207010 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).