

Product datasheet for RC238056

PLAGL1 (NM_001289040) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PLAGL1 (NM_001289040) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PLAGL1
Synonyms:	LOT1; ZAC; ZAC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC238056 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTACCCATTCTCCCAGAAATCTCACCAGTGTGCTCACTGTGAGAAGACGTTCAACCGAAAGACC
ACCTGAAAACCACCTCCAGACCCACGACCCCAACAAAATGGCCTTTGGGTGTGAGGAGTGTGGGAAGAA
GTACAACACCATGCTGGGCTATAAGAGGCACCTGGCCCTCCATGCGGCCAGCAGTGGGGACCTCACCTGT
GGGTCTGTGCCCTGGAGCTAGGGAGCACCGAGGTGCTACTGGACCACCTCAAAGCCCATGCGGAAGAGA
AGCCCCCTAGCGAACAAGGAAAAGAAGCACCAGTGCACCACCTGTGAAAGATGCTTCTACACCCGAA
GGATGTGCGACGCCACCTGGTGGTCCACACAGGATGCAAGGACTTCTGTGCCAGTTCTGTGCCAGAGA
TTTGGGCGCAAGGATCACCTCACCCGGCATACCAAGAAGACCCACTCACAGGAGCTGATGAAAGAGAGCT
TGACAGACCGGAGACCTTCTGAGCACCTTCCACACCATCTCGCCTTCAATCCAAGTGAAGGCTGTGCCTT
GCCTCCTTTCCCTTAGGAGCTTCTGCCAGAACGGGCTTGAAGTAGCTTGCCAGCTGAGGTCCATAGC
CTCACCTCAGTCCCCAGAACAAGCGCCAGCCTATGCAGCCGCTGCCAGAGTCCCTGGCCTCCCTCC
ACCCCTCGGTATCCCCTGGCTCTCTCCGCCACCCTTCCAATCACAAGTACAACACCACTTCTACCTC
ATACTCCCACCTGCAAGCCTGCCCTCAAAGCAGATACTAAAGTTTTTGCAATATCAGTTTGTGTTGAG
GACTTGCTCTGCAAGAGCCTCAGTCACCTCAAAGCTCAACCCAGGTTTTGATCTGGCTAAGGGAAATG
CTGGTAAAGTAAACCTGCCCAAGGAGCTGCCTGCAGATGCTGTGAACCTAACAATACCTGCCTCTCTGGA
CCTGTCCCCCTGTTGGGCTTCTGGCAGCTGCCCTCCTGTACTCCAAAATACCTTTGGGAATAGCACT
CTTGCCCTGGGGCTGGGAATCTTTGCCCCACAGGTTAAGCTGTCTGGGCAGCAGCAGCAAGAACCC
CACTTGCCATGGGCACTGTGAGCCTGGGCCAGCTCCCCCTGCCCCCATCCCTCATGTGTTCTCAGCTGG
CACTGGCTCTGCCATCTGCCTCATTTCCATCATGCATTGAGA

ACGGTACGGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RC238056 protein sequence
Red=Cloning site Green=Tags(s)

MATHSPQKSHQCAHCEKTFNRKDHLKNHLQTHDPNKMAFGCEECGKKYNTMLGYKRHLALHAASSGDLTC
 GVCALLEGSTEVLDDHLKAHAEEKPPSGTKEKKHQCDHCERCIFYTRKDVRRLVVHTGCKDFLCQFCAQR
 FGRKDHLTRHTKKTHSQELMKESLQTGDLLSTFHTISPFSQLKAAALPPFPLGASAQNGLASSLPAEVHS
 LTLSPPEQAAQPMQPLPESLASLHPSVSPGSPPPPLPNHKYNTTSTYSPLASLPLKADTKGFCNISLFE
 DLPLQEPQSPQKLNPGFDLAKGNAGKVNLPKELPADAVNLTIPASLDLSPLLGFWQLPPPATQNTFGNST
 LALGPGESLPHRLSCLGQQQEPPPLAMGTVSLGQLPLPPIPHVF SAGTGSAILPHFHHAFR

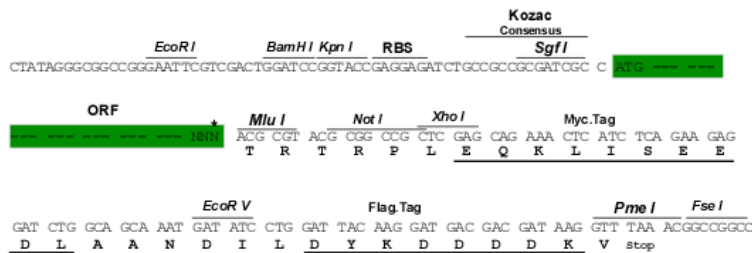
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6446_h09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001289040

ORF Size: 1233 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_001289040.2](#)

RefSeq Size: 2729 bp

RefSeq ORF: 1236 bp

Locus ID: 5325

UniProt ID: [Q9UM63](#)

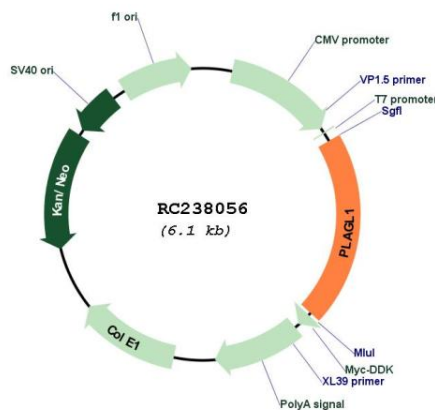
Cytogenetics: 6q24.2

Protein Families: Transcription Factors

MW: 44.7 kDa

Gene Summary: This gene encodes a C2H2 zinc finger protein that functions as a suppressor of cell growth. This gene is often deleted or methylated and silenced in cancer cells. In addition, overexpression of this gene during fetal development is thought to be the causal factor for transient neonatal diabetes mellitus (TNDM). Alternative splicing and the use of alternative promoters results in multiple transcript variants encoding two different protein isoforms. The P1 downstream promoter of this gene is imprinted, with preferential expression from the paternal allele in many tissues. [provided by RefSeq, Nov 2015]

Product images:



Circular map for RC238056