

## Product datasheet for **RC223413**

### **PLAGL1 (NM\_001080953) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PLAGL1 (NM_001080953) 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)



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**ORF Nucleotide Sequence:**

>RC223413 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCACGTTCCCTGCCAGTTATGTGGCAAGACGTTCTCACCTGGAGAAGTTCACGATTCACAATT  
 ATTCCCCTCCAGGGAGCGCCGTACAAGTGTGTGCAGCCTGACTGTGGCAAAGCCTTTGTTCCAGATA  
 TAAATTGATGAGGCATATGGCTACCCATTCTCCCCAGAAATCTCACAGTGTGCTCACTGTGAGAAGACG  
 TTCAACCGGAAAGACCACCTGAAAAACCACCTCCAGACCCACGACCCCAACAAAATGGCCTTTGGGTGTG  
 AGGAGTGTGGGAAGAAGTACAACACCATGCTGGGCTATAAGAGGCACCTGGCCCTCCATGCGGCCAGCAG  
 TGGGGACCTCACCTGTGGGTCTGTGCCCTGGAGCTAGGGAGCACCGAGGTGCTACTGGACCACCTCAA  
 GCCCATGCGGAAGAGAAGCCCCCTAGCGGAACCAAGGAAAAGAAGCACCAGTGCAGCCACTGTGAAAGAT  
 GCTTCTACACCCGAAGGATGTGCGACGCCACCTGGTGGTCCACACAGGATGCAAGGACTTCTGTGCCA  
 GTTCTGTGCCAGAGATTTGGGCGCAAGGATCACCTACCCGGCATAACCAAGAAGACCCACTCACAGGAG  
 CTGATGAAAGAGAGCTTGACAGCCGAGACCTTCTGAGCACCTTCCACACCATCTCGCCTCATTCCAAC  
 TGAAGGCTGTGCCTTGCCCTCTTCCCTTTAGGAGCTTCTGCCAGAACGGGCTTGCAAGTAGCTTGCC  
 AGCTGAGGTCCATAGCCTCACCCCTCAGTCCCCAGAACAAGCCGCCAGCCTATGCAGCCGCTGCCAGAG  
 TCCCTGGCCTCCCTCCACCCCTCGGATACCCCTGGCTCTCCTCCGCCACCCCTTCCCAATCACAAGTACA  
 ACACCCTTCTACCTCATACTCCCCTGCAAGCCTGCCCTCAAAGCAGATACTAAAGGTTTTTGCAA  
 TATCAGTTTGTGAGGACTTGCCTCTGCAAGAGCCTCAGTCACTCAAAGCTCAACCCAGGTTTTGAT  
 CTGGCTAAGGAAATGCTGGTAAAGTAACTGCCCAAGGAGCTGCCTGCAGATGCTGTGAACCTAACAA  
 TACCTGCCTCTCTGGACCTGTCCCCCTGTTGGGCTTCTGGCAGCTGCCCTCTGCTACCCAAAATAC  
 CTTTGGGAATAGCACTTTGCCCTGGGGCTGGGGAATCTTGGCCACAGGTTAAGCTGTCTGGGGCAG  
 CAGCAGCAAGAACCCCACTTGCATGGGCACTGTGAGCCTGGGCCAGCTCCCCCTGCCCCCATCCCTC  
 ATGTGTTCTCAGCTGGCACTGGCTCTGCCATCCTGCCTCATTTCCATCATGCATTGAGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC223413 protein sequence  
 Red=Cloning site Green=Tags(s)

MATFPCQLCGKFTLTLEKFTIHNYSHSRERPYKCVQDCGKAFVSRYLKMRHMATHSPQKSHQCAHCEKT  
 FNRKDHLLKNHLQTHDPNKMAFGCEECGKKYNTMLGYKRHLALHAASSGDLTCGVCALELGSTEVLLDHLK  
 AHAEKPPSGTKEKKHQCDHCERCIFYTRKDVRRLVHTGCKDFLCQFCAQRFGRKDHLTRHTKTHSQE  
 LMKESLQTDLLSTFHTISPSFQLKAAALPPFPLGASAQNGLASSLPAEVHSLTLPPEQAAQPMQPLPE  
 SLASLHPSVSPGSPPPPLPNHKYNTTSTYSPLASLPLKADTKGFCNISLFEDLPLQEPQSPQKLNPGFD  
 LAKGNAGVNLPELPAVAVNLTIASLDLSPLLGFVQLPPPATQNTFGNSTLALGPGESLPHRLSCLGQ  
 QQEQPPLAMGTVSLGQLPLPIPHVFSAGTGSAILPHFHAFR

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8061\\_f10.zip](https://cdn.origene.com/chromatograms/mk8061_f10.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001080953

**ORF Size:** 1389 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\\_001080953.3](#)

**RefSeq Size:** 3379 bp

**RefSeq ORF:** 1392 bp

**Locus ID:** 5325

**UniProt ID:** [Q9UM63](#)

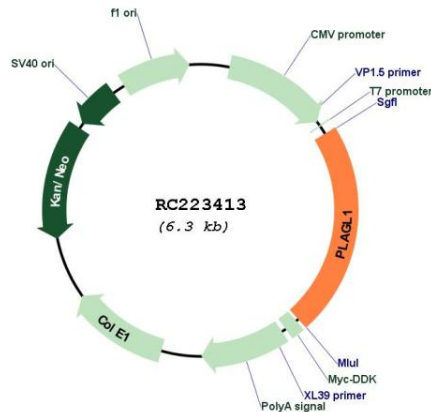
**Cytogenetics:** 6q24.2

**Protein Families:** Transcription Factors

**MW:** 50.8 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 RC223413