

Product datasheet for **SC315946**

PLAGL1 (NM_001080955) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PLAGL1 (NM_001080955) Human Untagged Clone
Tag:	Tag Free
Symbol:	PLAGL1
Synonyms:	LOT1; ZAC; ZAC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC315946 representing NM_001080955. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGCTACCCATTCTCCCAAGAAATCTCACCAGTGTGCTCACTGTGAGAAGACGTTCAACCGGAAAGAC
CACCTGAAAAACCACTCCAGACCCACGACCCCAACAAATGGCCTTTGGGTGTGAGGAGTGTGGGAAG
AAGTACAACACCATGCTGGGCTATAAGAGGCACCTGGCCCTCCATGCGGCCAGCAGTGGGGACCTCAC
TGTGGGGTCTGTGCCCTGGAGCTAGGGAGCACCGAGGTGCTACTGGACCACCTCAAAGCCATGCGGAA
GAGAAGCCCCCTAGCGGAACCAAGGAAAAGAAGCACCAGTGCGACCACTGTGAAAGATGCTTCTACACC
CGGAAGGATGTGCGACGCCACCTGGTGGTCCACACAGGATGCAAGGACTTCTGTGCCAGTTCTGTGCC
CAGAGATTTGGGCGCAAGGATCACCTCACCCGGCATAACCAAGAAGACCCACTCACAGGAGCTGATGAAA
GAGAGCTTGCAGACCGGAGACCTTCTGAGCACCTTCCACACCATCTCGCCTTCATTCCAACCTGAAGGCT
GCTGCCTTGCCTCCTTTCCCTTTAGGAGCTTCTGCCCAGAACGGGCTTGCAAGTAGCTTGCCAGCTGAG
GTCCATAGCCTCACCTCAGTCCCCAGAACAAGCCGCCAGCCTATGCAGCCGCTGCCAGAGTCCCTG
GCCTCCCTCCACCCTCGGTATCCCTGGCTCTCCTCCGCCACCCCTTCCAATCACAAGTACAACACC
ACTTCTACCTCATACTCCCCTTGCAAGCCTGCCCTCAAAGCAGATACTAAAGGTTTTGCAATATC
AGTTTGTGTTGAGGACTTGCCCTGCAAGAGCCTCAGTCACTCAAAGCTCAACCCAGGTTTTGATCTG
GCTAAGGAAAATGCTGGTAAAGTAAACCTGCCAAGGAGCTGCCAGATGCTGTGAACCTAACAAATA
CCTGCCTCTCTGACCTGTCCCCCTGTTGGGCTTCTGGCAGCTGCCCCCTCCTGCTACCCAAAATACC
TTTGGGAATAGCACTCTTGCCCTGGGGCTGGGAATCTTTGCCCCACAGGTTAAGCTGTCTGGGCGAG
CAGCAGCAAGAACCCCCACTTGCCATGGGCACTGTGAGCCTGGGCCAGCTCCCCCTGCCCCCATCCCT
CATGTGTTCTCAGCTGGCACTGGCTCTGCCATCTGCCTCATTTCCATCATGCATTAGATAGTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: Sgfl-Mlul



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Plasmid Map:	□
ACCN:	NM_001080955
Insert Size:	1236 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_001080955.2</u>
RefSeq Size:	2734 bp
RefSeq ORF:	1236 bp
Locus ID:	5325
UniProt ID:	<u>Q9UM63</u>
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]

Transcript Variant: This variant (7, also known as P2C) initiates from the P2 promoter, differs in the 5' UTR and 5' coding region, and initiates translation at a downstream start codon, compared to variant 1. The encoded isoform (1, also known as ZACdelta2) has a shorter N-terminus than isoform 2. Variants 7, 8, 9, 11, 13, 14, 21, 24, and 26 all encode the same isoform (1).