

Product datasheet for **RG216984**

PLAGL1 (NM_001080954) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PLAGL1 (NM_001080954) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PLAGL1
Synonyms:	LOT1; ZAC; ZAC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG216984 representing NM_001080954
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCACGTTCCCTGCCAGTTATGTGGCAAGACGTTCTCACCTGGAGAAGTTCACGATTCACAATT
 ATTCCCCTCCAGGGAGCGCCGTACAAGTGTGTGCAGCCTGACTGTGGCAAAGCCTTTGTTCCAGATA
 TAAATTGATGAGGCATATGGCTACCCATTCTCCCCAGAAATCTCACCAGTGTGCTCACTGTGAGAAGACG
 TTCAACCGGAAAGACCACCTGAAAAACCACCTCCAGACCCACGACCCCAACAAAATGGCCTTTGGGTGTG
 AGGAGTGTGGGAAGAAGTACAACACCATGCTGGGCTATAAGAGGCACCTGGCCCTCCATGCGGCCAGCAG
 TGGGGACCTCACCTGTGGGTCTGTGCCCTGGAGCTAGGGAGCACCGAGGTGCTACTGGACCACCTCAA
 GCCCATGCGGAAGAGAAGCCCCCTAGCGGAACCAAGGAAAAGAAGCACCAGTGCAGCCACTGTGAAAGAT
 GCTTCTACACCCGAAGGATGTGCGACGCCACCTGGTGGTCCACACAGGATGCAAGGACTTCTGTGCCA
 GTTCTGTGCCAGAGATTTGGGCGCAAGGATCACCTACCCGGCATAACCAAGAAGACCCACTCACAGGAG
 CTGATGAAAGAGAGCTTGACAGCCGGAGACCTTCTGAGCACCTTCCACACCATCTCGCCTCATTCCAAC
 TGAAGGCTGTGCCTTGCCCTCTTCCCTTTAGGAGCTTCTGCCAGAACGGGCTTGCAAGTAGCTTGCC
 AGCTGAGGTCCATAGCCTCACCTCAGTCCCCAGAACAAGCCGCCAGCCTATGCAGCCGCTGCCAGAG
 TCCCTGGCCTCCCTCCACCCCTCGGATACCCCTGGCTCTCCTCCGCCACCCCTTCCCAATCACAAGTACA
 ACACCCTTCTACCTCATACTCCCCTGCAAGCCTGCCCTCAAAGCAGATACTAAAGGTTTTTGCAA
 TATCAGTTTGTGAGGACTTGCCTCTGCAAGAGCCTCAGTCACTCAAAGCTCAACCCAGGTTTTGAT
 CTGGCTAAGGAAATGCTGGTAAAGTAACTGCCAAGGAGCTGCCTGCAGATGCTGTGAACCTAACAA
 TACCTGCCTCTCTGGACCTGCCCCCTGTTGGGCTTCTGGCAGCTGCCCTCCTGCTACCCAAAATAC
 CTTTGGGAATAGCACTCTTGCCCTGGGGCTGGGGAATCTTGGCCACAGGTTAAGCTGTCTGGGGCAG
 CAGCAGCAAGAACCCCACTTGCCATGGGCACTGTGAGCCTGGGCCAGCTCCCCCTGCCCCCATCCCTC
 ATGTGTTCTCAGCTGGCACTGGCTCTGCCATCCTGCCTCATTTCCATCATGCATTGAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG216984 representing NM_001080954
 Red=Cloning site Green=Tags(s)

MATFPCQLCGKTFLEKFTIHNYSRERPYKCVQDCGKAFVSRYLKMRHMATHSPQKSHQCAHCEKT
 FNRKDHLEKHLQTHDPNKMAFGCEECGKYNMLGYKRHLALHAASSGDLTCGVCALELGSTEVLLDHLK
 AHAEKPPSGTKEKKHQCDHCERCYTRKDVRRHLVVHTGCKDFLCQFCAQRFGRKDHLTRHTKTHSQE
 LMKESLQTDLLSTFHTISPSFQLKAAALPPFPLGASQNGLASSLPAEVHSLTSPPEQAAQPMQPLPE
 SLASLHPSVSPGSPPPPLPNHKYNTTSTSYPLASLPLKADTKGFCNISLFDLPLQEPQSPQKLNPGFD
 LAKGNAGKVNLPKELPADAVNLTIPASLDLSPLLGFWQLPPPATQNTFGNSTLALGPGESLPHRLSCLGQ
 QQQEPPLAMGTVSLGQLPLPPIPHVFSAGTGSAILPHFHAFR

TRTRPLE - GFP Tag - V

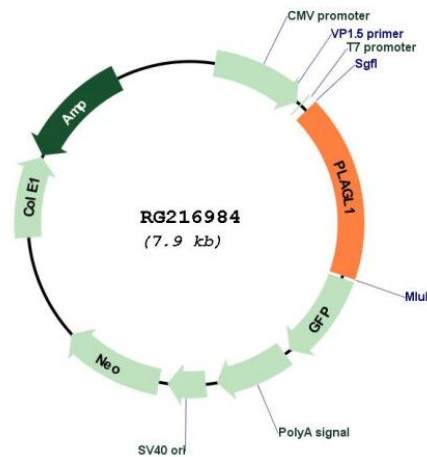
Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM_001080954

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:	<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_001080954.3</u>
RefSeq Size:	3378 bp
RefSeq ORF:	1392 bp
Locus ID:	5325
UniProt ID:	<u>Q9UM63</u>
Cytogenetics:	6q24.2
Protein Families:	Transcription Factors
Gene Summary:	<p>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]</p>