

Product datasheet for **RG238378**

PLAGL1 (NM_001289044) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PLAGL1 (NM_001289044) 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)
ORF Nucleotide Sequence:	>RG238378 representing NM_001289044. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGCCACGTTCCCTGCCAGTTATGTGGCAAGACGTTCCCTCACCTGGAGAAGTTCACGATTCACAAT
TATTCCCACTCCAGGGAGCGGCCGTACAAGTGTGTGCAGCCTGACTGTGGCAAAGCCTTTGTTCCAGA
TATAAATTGATGAGGCATATGGCTACCCATTCTCCCCAGAAATCTCACCAGTGTGCTCACTGTGAGAAG
ACGTTCAACCGGAAAGACCACCTGAAAAACCACCTCCAGACCCACGACCCCAACAAAATGGCCTTTGGG
TGTGAGGAGTGTGGGAAGAAGTACAACACCATGCTGGGCTATAAGAGGCACCTGGCCCTCCATGCGGCC
AGCAGTGGGACCTCACCTGTGGGTCTGTGCCCTGGAGCTAGGGAGCACCGAGGTGCTACTGGACCAC
CTCAAAGCCCATGCGGAAGAGAAGCCCTAGCGGAACCAAGGAAAAGAAGCACCAGTGCAGACCAGTGT
GAAAGATGCTTCTACACCGGAAGGATGTGCGACGCCACCTGGTGGTCCACACAGGATGCAAGGACTTC
CTGTGCCAGTTCTGTGCCAGAGATTTGGGCGCAAGGATCACCTCACCCGCATACCAAGAAGACCCAC
TCACAGGAGCTGATGAAAGAGAGCTTGCAGACCGGAGACCTTCTGAGCACCTTCCACACCATCTCGCT
TCATTCCAAGTGAAGGCTGCTGCCTTGCCTCCTTTCCCTTTAGGAGCTTCTGCCAGAACGGGCTTGCA
AGTAGCTTGCCAGCTGAGGTCCATAGCCTCACCTCAGTCCCCAGAACAAGCCGCCAGCCTATGCAG
CCGCTGCCAGAGTCCCTGGCCTCCCTCCACCCCTCGGTATCCCTGGCTCTCCTCCGCCACCCCTTCCC
AATCACAAGTACAACACCACCTTCTACCTCATACTCCCCTGCAAGCCTGCCCTCAAAGCAGATACT
AAAGTTTTTGAATATCAGTTTGTGGAGACTTGCTCTGCAAGAGCCTCAGTACCTCAAAGGCTC
AACCCAGTTTTGATCTGGCTAAGGAAATGCTGGTAAAGTAAACCTGCCAAGGAGCTGCTGCAGAT
GCTGTGAACCTAACAAATACCTGCCTCTCTGGACCTGTCCCCCTGTTGGGCTTCTGGCAGCTGCCCTT
CCTGCTACCCAAAATACCTTTGGGAATAGCACTTGTCCCTGGGGCTGGGGAATCTTTGCCACAGG
TTAAGCTGTCTGGGCGAGCAGCAGCAAGAACCCCACTTGCCATGGGCACTGTGAGCCTGGGCCAGCTC
CCCCTGCCCCCATCCCTCATGTGTTCTCAGTGGCACTGGCTTGCATCCTGCCTCATTTCCATCAT
GCATTCAGA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
```



[View online >](#)

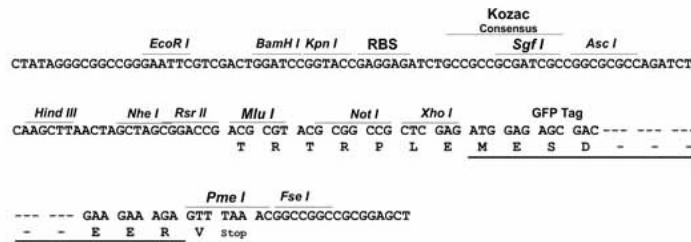
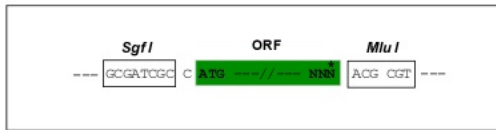
Protein Sequence: >Peptide sequence encoded by RG238378
 Blue=ORF Red=Cloning site Green=Tag(s)

MATFPCQLCGKTFLTLEKFTIHNYSHSRERPYKCVQPCGKAFVSRYSRYKLMRHMATHSPQKSHQCAHCEK
 TFNRKDHLLKNHLQTHDPNKMAFGCEECGKKYNTMLGYKRHLALHAASSGDLTCGVCALGSTEVLDDH
 LKAHAEEKPPSGTKEKKHQCDHCERCIFYTRKDVRRHLVVHTGCKDFLCQFCAQRFGRKDHLTRHTKKTH
 SQELMKESSLQTGDLLSTFHITISPSFQLKAAALPPFPLGASAQNGLASSLPAEVHSLTLPPEQAAQPMQ
 PLPESLASLHPSVSPGSPPPPLPNHKYNTTSTYSPLASLPLKADTKGFCNISLFDLPLQEPQSPQKL
 NPGFDLAKGNAGKVNLPKELPADAVNLTIPASLDLSPLLGFWQLPPPATQNTFGNSTLALGPGESLPHR
 LSCLGQQQEPPLAMGTVSLGQLPLPIPHVFSAGTGSAILPHFHAFR
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

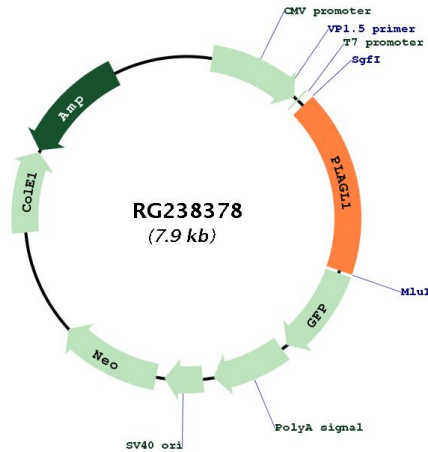
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001289044

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).

RefSeq: [NM_001289044.2](#)

RefSeq Size: 3165 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]