

Product datasheet for **RG238053**

PLAGL1 (NM_001289037) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PLAGL1 (NM_001289037) 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:	>RG238053 representing NM_001289037. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGCTACCCATTCTCCCAGAAATCTCACCAGTGTGCTCACTGTGAGAAGACGTTCAACCGGAAAGAC
CACCTGAAAAACCACTCCAGACCCACGACCCCAACAAATGGCCTTTGGGTGTGAGGAGTGTGGGAAG
AAGTACAACACCATGCTGGGCTATAAGAGGCACCTGGCCCTCCATGCGGCCAGCAGTGGGGACCTCACC
TGTGGGGTCTGTGCCCTGGAGCTAGGGAGCACCGAGGTGCTACTGGACCACCTCAAAGCCATGCGGAA
GAGAAGCCCCCTAGCGGAACCAAGGAAAAGAAGCACCAGTGCGACCACTGTGAAAGATGCTTCTACACC
CGGAAGGATGTGCGACGCCACCTGGTGGTCCACACAGGATGCAAGGACTTCTGTGCCAGTTCTGTGCC
CAGAGATTTGGGCGCAAGGATCACCTCACCCGGCATAACCAAGAAGACCCACTCACAGGAGCTGATGAAA
GAGAGCTTGACAGACCGGAGACCTTCTGAGCACCTTCCACACCATCTCGCCTTCATTCCAACCTGAAGGCT
GCTGCCTTGCCCTCCTTTCCCTTTAGGAGCTTCTGCCCAGAACGGGCTTGCAAGTAGCTTGCCAGCTGAG
GTCCATAGCCTCACCCCTCAGTCCCCAGAACAAGCCGCCAGCCTATGCAGCCGCTGCCAGAGTCCCTG
GCCTCCCTCCACCCTCGGTATCCCCTGGCTCTCCTCCGCCACCCCTTCCAATCACAAGTACAACACC
ACTTCTACCTCATACTCCCCTTGCAAGCCTGCCCTCAAAGCAGATACTAAAGGTTTTTGCAATATC
AGTTTGTGGAGGACTTGCCCTGCAAGAGCCTCAGTCACTCAAAGCTCAACCCAGGTTTTGATCTG
GCTAAGGAAAATGCTGGTAAAGTAAACCTGCCAAGGAGCTGCCAGATGCTGTGAACCTAAACAATA
CCTGCCTCTCTGACCTGTCCCCCTGTTGGGCTTCTGGCAGCTGCCCTCCTGCTACCCAAAATACC
TTTGGGAATAGCACTCTTGCCCTGGGGCTGGGAATCTTTGCCCCACAGGTTAAGCTGTCTGGGCGAG
CAGCAGCAAGAACCCCCACTTGCCATGGGCACTGTGAGCCTGGGCCAGCTCCCCCTGCCCCCATCCCT
CATGTGTTCTCAGCTGGCACTGGCTCTGCCATCTGCCTCATTTCCATCATGCATTGAGA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG238053
 Blue=ORF Red=Cloning site Green=Tag(s)

MATHSPQKSHQCAHCEKTFNRKDHLKNHLQTHDPNKMAFGCEECGKKYNTMLGYKRHLALHAASSGDLT
 CGVCALELGVSTEVLLDHLKAHAEKPPSGTKEKKHQDHCERC FYTRKDVRRLV VHTGCKDFLCQFCA
 QRFGRKDHLTRHTKTKHSQELMKESLQTGDLLSTFHTISPSFQLKAAALPPFPLGASQNGLASSLPAE
 VHSLTLSPPEQAAQPMQPLPESLASLHPSVSPGSPPPPPLPNHKYNTTSTSYSPLASLPLKADTKGFCNI
 SLFEDLPLQEPQSPQKLNPGFDLAKGNAGKVNLPKELPADAVNLTIPASLDLSPLLGFWQLPPPATQNT
 FGNSTLALGPGESLPHRLSCLGQQQPEPLAMGTVSLGQLPLPPIPHVFSAGTGSAILPHFHAFR
TRTRPLEMESDESLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPYSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001289037

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).

RefSeq: [NM_001289037.2](#)

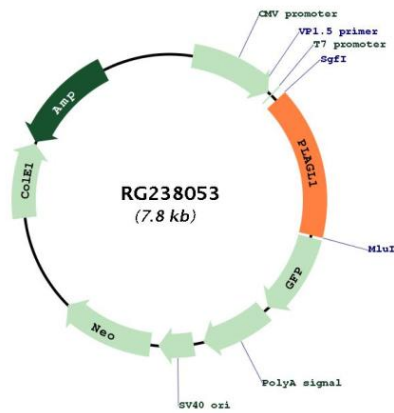
RefSeq Size: 2703 bp

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 RG238053