

Product datasheet for **RR204817**

Plag1 (NM_001008316) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Plag1 (NM_001008316) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Plag1
Synonyms:	MGC94626
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR204817 representing NM_001008316
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCACTGTCACTTCTGGTGATTTGTCAGAAGTAAAGATACCCAGAAAGCCCTTCAGGAAACGTA
 AGCGTGGTGAAAGCAAACCAAGAAAAAACTTCCCTTGCCAACTGTGTGACAAGGCCCTTAAACAGTGTGA
 GAAATTAAGGTTCACTCCTTCTCTCACACGGGAGAGAGGCCCTACAAGTGCACACACCAAGACTGCACC
 AAGGCCTTTGTTTCTAAGTACAAATTACAAAGGCACATGGCTACTCACTCTCCTGAGAAAACCCACAAGT
 GTAATTATTGTGAGAAAAATGTTTCACCGGAAAGACCATCTGAAGAACCACCTCCATACACACGACCCCAA
 CAAAGAGACTTTTAAATGCGAAGAGTGTGGCAAGAGCTACAACACCAAGCTTGGGTTTAAGCGACACTTG
 GCCTTGCACGCTGCCACCAGTGGCGACCTCACCTGCAAGGTGTGTTTGCAGACTTTGAGAGCACAGGTG
 TGCTCCTAGAGCACCTGAAATCTCACGCAGGCAAGTCTCTGGGGCGTAAAAGAGAAAAAGCACCAGTG
 TGAGCACTGCGAGCGCAGGTTCTACACCCGGAAGGATGTTCCGGAGACACATGGTGGTGCACACGGGAAGA
 AAGGACTTCTCTGTCACTACTGTGCACAGAGATTTGGACGAAAGGATCACCTCACTCGACACATGAAGA
 AGAGTCACAATCAAGAGCTTCTGAAGGTCAAACTGAACCAGTCAATTCCTGGACCCATTCACCTGCAA
 CATGTCTGTGCCTATAAAAGATGAGCTCCTGCCGGTCAATGTCCTTGCCTTCCAGCGAACTTGTCAAAG
 CCATTCACCAACACTTTGCAGTTAAACCTCTATAACACTCCATTTCACTCCATGCAGAGCTCTGGGTCTA
 CTCACCAATGATAACAACCTTACCTTTGGGAATGACGTGCCCATAGATATGGACACTGTTTACCCCTC
 TCATCATCTTGTCTTCAAATGCCCGTTCAGTCTACCTCATACGCAATCTCTATTTCCCGAGAAAGAACAG
 CCCTTAAAGGGGAAATCGAGAGTTATCTGATGGAGTTACAAGGTGGCGCACCATCTTATCCCAGGATT
 CTCAAAGCATCATCGTCTAAGTTAGGTTAGAGCCTCAGAGTGGCTCCCCAGACGATGGTGGTGGGACCT
 CTCCTGTCAAAGAGCTCTATCTCTATCAGTGACCCCTGAACACACCAGCATTGGATTTCTCTCAGTTG
 TTCAATTTCATACCATTAATGGTCTCTTACAATCCGCTCTCCGTGGGAGCCTTGGGATGAGCTATT
 CCCAGGACGAGGCGCATTCTTCTGTTTCTCAGCTGCCACACAAACACAGGATCTTCAGGATCTGCGAA
 CACAGTGGCCTTGGCTCTCTGCACTCACTGTCAGCAGCTTTCACCAGCAGCCTAAGCTCAAGCACTACC
 CTGCCCGTTTCCACCAGGCCTTTCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR204817 representing NM_001008316
 Red=Cloning site Green=Tags(s)

MATVIPGDLSEVRDTPKAPSGKRKRKRGESKPRKNFPCQLCDKAFNSVEKLVHFSHTGERPYKCTHQDCT
 KAFVSKYKLRHMATHSPEKTHKCNCEKMFHRKDLKNHLHHDHPNKETFKCEECGKSYNTKLGFKRHL
 ALHAATSGDLTCKVCLQTFESTGVLLLEHLKSHAGKSSGGVKEKKHQCEHCERRFYTRKDVRRHMVVHTGR
 KDFLCQYCAQRFGRKDHLTRHMKKSHNQELLKVKTEPVDFLDPFTCNMSVPIKDELLPVMSLPSSELLSK
 PFTNTLQLNLYNTPFQSMQSSGTHQMITLPLGMTCPIDMDTVHPSHHLAFKCPFSSTSYAISIPEKEQ
 PLKGEIESYLMELQGGAPSSSQDSQASSSKLGLEPQSGSPDDGAGDLSLSSSISISDPLNTPALDFSQ
 FNFIPLNPPYNPLSVGSLGMSYSQDEAHSSVSQLPQTQDLQDPANTVGLGSLHLSAAFTSSLSSST
 LPRFHQAFQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001008316

ORF Size: 1497 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_001008316.1](#), [NP_001008317.1](#)

RefSeq Size: 3360 bp

RefSeq ORF: 1500 bp

Locus ID: 297804

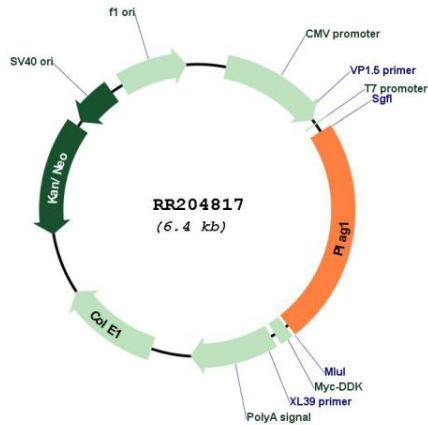
UniProt ID: [Q5U2T6](#)

Cytogenetics: 5q12

MW: 55.6 kDa

Gene Summary: Transcription factor whose activation results in up-regulation of target genes, such as IGFBP, leading to uncontrolled cell proliferation: when overexpressed in cultured cells, higher proliferation rate and transformation are observed. Other target genes such as CRLF1, CRABP2, CRIP2, PIGF are strongly induced in cells with PLAG1 induction. Proto-oncogene whose ectopic expression can trigger the development of pleomorphic adenomas of the salivary gland and lipoblastomas. Cooperates with CFBF-MYH11 (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR204817