

## Product datasheet for **RN204817**

### Plag1 (NM\_001008316) Rat Untagged Clone

#### Product data:

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



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**Fully Sequenced ORF:** >RN204817 representing NM\_001008316  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCCACTGTCACTTCTGGTGATTGTGTCAGAAGTAAAGATACCCAGAAAGCCCTTCAGGAAACGTA  
AGCGTGGTGAAAGCAAACCAAGAAAAAACTTTCCTTGCCAACTGTGTGACAAGGCCCTTAACAGTGTGA  
GAAATTAAGGTTCACTCCTTCTCTCACACGGGAGAGAGGCCCTACAAGTGCACACACCAAGACTGCACC  
AAGGCCTTTGTTTCTAAGTACAAATTACAAAGGCACATGGCTACTCACTCTCCTGAGAAAACCCACAAGT  
GTAATTATTGTGAGAAAAATGTTTCACCGAAAGACCATCTGAAGAACCACCTCCATACACACGACCCCAA  
CAAAGAGACTTTTAAATGCGAAGAGTGTGGCAAGAGCTACAACACCAAGCTTGGGTTTAAGCGACTTG  
GCCTTGCACGCTGCCACCAGTGGCGACCTCACCTGCAAGGTGTGTTTGCAGACTTTGAGAGCACAGGTG  
TGCTCCTAGAGCACCTGAAATCTCACGCAGGCAAGTCTCTGGGGCGTAAAAGAGAAAAAGCACCAGTG  
TGAGCACTGCGAGCGCAGGTTCTACACCCGGAAGGATGTTCCGGAGACACATGGTGGTGCACACGGGAAGA  
AAGGACTTCTCTGTCACTACTGTGCACAGAGATTTGGACGAAAGGATCACCTCACTCGACACATGAAGA  
AGAGTCACAATCAAGAGCTTCTGAAGGTCAAACTGAACCAAGTCAATTCCTGGACCCATTCACCTGCAA  
CATGTCTGTGCCTATAAAAGATGAGCTCCTGCCGGTCAATGTCCTTGCCTCCAGCGAACTTTGTCAAAG  
CCATTCACCAACACTTTGCAGTTAAACCTCTATAACACTCCATTTCACTCCATGCAGAGCTCTGGGTCTA  
CTCACCAATGATAACAACCTTTACCTTTGGGAATGACGTGCCCATAGATATGGACACTGTTACCCCTC  
TCATCATCTTGTCTTCAAATGCCGTTCACTTCTACCTCATACGCAATCTCTATTCGAGAAAGAACAG  
CCCTTAAAGGGGAAATCGAGAGTTATCTGATGGAGTTACAAGGTGGCGCACCATCTTCATCCCAGGATT  
CTCAAGCATCATCGTCTAAGTTAGGTTAGAGCCTCAGAGTGGCTCCCCAGACGATGGTGTGGGGACCT  
CTCCCTGTCAAAGAGCTCTATCTCTATCAGTGACCCCTGAACACACCAGCATTGGATTTCTCTCAGTTG  
TTCAATTTCATACCATTAATGGTCTCCTTACAATCCGCTCTCCGTGGGAAGCCTTGGGATGAGCTATT  
CCCAGGACGAGGCGCATTCTTCTGTTTCTCAGCTGCCACACAAACACAGGATCTTCAGGATCCTGCGAA  
CACAGTGGGCTTGGCTCTCTGCACTCACTGTGACGAGCTTTCACCAGCAGCCTAAGCTCAAGCACTACC  
CTGCCCGTTTCCACCAGGCCTTTCAGTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001008316

**Insert Size:** 1500 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).

**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

**Gene Summary:** Transcription factor whose activation results in up-regulation of target genes, such as IGFII, 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]