

Product datasheet for **MR223145**

Plag1 (NM_019969) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Plag1 (NM_019969) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Plag1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR223145 representing NM_019969
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCCACTGTCAATTCCTGGTGATTTGTCAGAAGTAAAGATACCCAGAAAGCCCTTCAGGAAACGTA
 AGCGTGGTGAAAGCAAACCAAGAAAAAACTTTCCTTGCCAACTGTGTGACAAGGCCCTTAAACAGTGTGA
 GAAATTAAGGTTCACTCCTTCTCTCACACGGGAGAGAGGCCCTACAAGTGCACACACCAAGACTGCACC
 AAGGCCTTTGTTTCTAAGTACAAATTACAAAGGCACATGGCTACTCACTCTCCTGAGAAAACCCACAAGT
 GTAATTACTGTGAGAAAAATGTTTCACCGGAAAGACCATCTGAAGAATCACCTCCATACACATGACCCCAA
 CAAAGAGACCTTTAAATGCGAAGAGTGTGGCAAGAGCTACAATACCAAGCTTGGTTTTAAGCGACACTTG
 GCCTTGCATGCTGCCACCAGTGGTGACCTCACCTGCAAGGTGTGTTTGCAGAATTTGAGAGCACAGGTG
 TGCTCCTAGAGCACCTGAAATCTCACCGGGCAAGTCATCTGGGGGTGTGAAGGAGAAAAAGCACCAATG
 TGAGCACTGCGAACGCAGGTTCTACACCGGAAGGATGTCGGGAGACACATGGTGGTACACAGGAAGA
 AAGGACTTCTCTGTCACTACTGCGCACAGAGATTTGGACGAAAGGATCACCTCACTCGACACATGAAGA
 AGAGTCACAATCAGGAGCTTCTGAAGGTCAAAACGGAACCAAGTAGATTTCTGGACCCATTTACCTGCAA
 CATGTCTGTGCCTATAAAAGATGAACTCCTGCCGGTCAATGTCCTTACCTCCAGTGAACCTTTGTCAAAG
 CCATTCACAAACACTTTGCAGTTAAACCTCTATAACACTCCATTTCACTCCATGCAGAGCTCTGGGCTGTG
 CTCACCAAATGATAACAACCTTTACCTTTGGGAATGACATGCCCATAGATATGGATGCTGTTACCCCTC
 TCATCATCTTGCTTTCAAATGCCATTCAGTTCACCTCATACGCAATCTCTATTCCTGAAAAAGAACAG
 CCATTAAGGGGGAAATGAGAGTTACCTGATGGAGCTACAAGGTGGTGCACCATCTTCATCCCAGGATT
 CTCAGCATCGTCATCTAAGCTAGGTTAGAGCCTCAGAGTGGGTCGCCAGATGATGGTGTGGGACCT
 CTCCTGTCAAAGAGCTCTATCTCTATCAGTGACCCCTCAGCACACCAGCATTGGATTTCTCTCAGTTG
 TTCAATTTCATACCATTGAATGGTCCCTTTAATCCACTTTTCACTGGGAAAGCCTTGGGATGAGCTATT
 CCCAGGAGGAAGCACACTCTTCTGTCTCTCAGCTGCCACACAAACACAGGATCTTCAGGACCCTGCAAA
 CACTGTGGGTCTAAGTTCTCTGCACTCACTGTCCGCGAGGTTCCACAGCAGCCTGAGCTCAAGCACTACC
 TTGCCCGTTTCCACCAGGCGTTTCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR223145 representing NM_019969
 Red=Cloning site Green=Tags(s)

MATVIPGDLSEVRDQKAPSGKRKRKRGESKPRKNFPCQLCDKAFNSVEKLVHFSHTGERPYKCTHQDCT
 KAFVSKYKLRHMATHSPEKTHKCNCEKMFHRKDHLKNLHLDHPNKETFKCEECGKSYNTKLGFKRHL
 ALHAATSGDLTKVCLQNFESTGVLLLEHLKSHAGKSSGGVKEKKHQCEHCERRFYTRKDVRRHMVHTGR
 KDFLCQYCAQRFGRKDHLTRHMKKSHNQELLKVKTEPVDFLDPFTCNMSVPIKDELLPVMSLPSSELLSK
 PFTNTLQLNLYNTPFQSMQSSGSAHQMITLPLGMTCPIDMDAVHPSHLAFKCPFSSTSYAISIPKEQ
 PLKGEIESYLMELQGGAPSSSQDSPAASSKLGLEPQSGSPDDGAGDLSLSSSISIDPLSTPALDFSQ
 FNFIPNGPPYNPLSVGSLGMSYSQEEAHSSVSQLPQTQDLQDPANTVGLSSLHSLSAFTSSLSSST
 LPRFHQAFQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9044_a10.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_019969

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_019969.3](#), [NP_064353.2](#)

RefSeq Size: 4635 bp

RefSeq ORF: 1500 bp

Locus ID: 56711

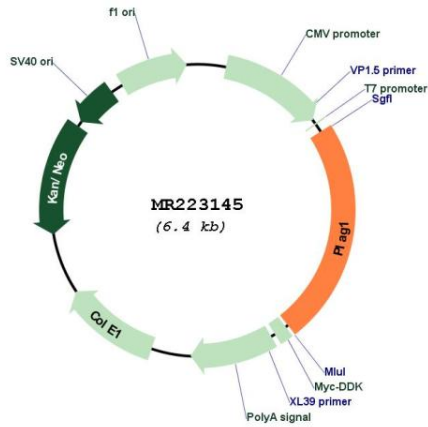
UniProt ID: [Q9QYE0](#)

Cytogenetics: 4 A1

MW: 56 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.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR223145