

Resource Summary Report

Generated by [SPARC SAWG](#) on Aug 9, 2026

pcDNA4/TO/cmycDrosha

RRID:Addgene_10828

Type: Plasmid

Proper Citation

RRID:Addgene_10828

Plasmid Information

URL: <http://www.addgene.org/10828>

Proper Citation: RRID:Addgene_10828

Insert Name: Drosha

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:15589161](#)

Vector Backbone Description: Backbone Marker:Invitrogen; Backbone Size:5017; Vector Backbone:pcDNA4/TO; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Plasmid Name: pcDNA4/TO/cmycDrosha

Record Creation Time: 20220422T221525+0000

Record Last Update: 20260808T080406+0000

Ratings and Alerts

No rating or validation information has been found for pcDNA4/TO/cmycDrosha.

No alerts have been found for pcDNA4/TO/cmycDrosha.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 7 mentions in open access literature.

Listed below are recent publications. The full list is available at [SPARC SAWG](#) .

Liao GR, et al. (2021) The orf virus (ORFV) protein OV20.0 interacts with the microprocessor complex subunit DGCR8 to regulate miRNA biogenesis and ORFV infection. FEBS letters, 595(23), 2897.

Pandolfini L, et al. (2019) METTL1 Promotes let-7 MicroRNA Processing via m7G Methylation. Molecular cell, 74(6), 1278.

Rupaimoole R, et al. (2014) Hypoxia-mediated downregulation of miRNA biogenesis promotes tumour progression. Nature communications, 5, 5202.

Torrezan GT, et al. (2014) Recurrent somatic mutation in DROSHA induces microRNA profile changes in Wilms tumour. Nature communications, 5, 4039.

Velagapudi SP, et al. (2014) Sequence-based design of bioactive small molecules that target precursor microRNAs. Nature chemical biology, 10(4), 291.

Ballarino M, et al. (2013) TAF15 is important for cellular proliferation and regulates the expression of a subset of cell cycle genes through miRNAs. Oncogene, 32(39), 4646.

Tang X, et al. (2010) Phosphorylation of the RNase III enzyme Drosha at Serine300 or Serine302 is required for its nuclear localization. Nucleic acids research, 38(19), 6610.