

Resource Summary Report

Generated by [RRID](#) on Aug 20, 2026

Hmga2 3'UTR wt luciferase (Luc-wt)

RRID:Addgene_14785

Type: Plasmid

Proper Citation

RRID:Addgene_14785

Plasmid Information

URL: <http://www.addgene.org/14785>

Proper Citation: RRID:Addgene_14785

Insert Name: Luc-wt

Organism: Mus musculus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:17322030](#)

Vector Backbone Description: Backbone Marker:Available from Addgene (#12179); Backbone Size:4000; Vector Backbone:pIS1; Vector Types:Mammalian Expression, Luciferase; Bacterial Resistance:Ampicillin

Comments: The 3' UTR of the mouse Hmga2 cDNA (BC052158) was subcloned into pCR2.1-TOPO (Invitrogen) for site-directed mutagenesis. To disrupt each let-7 complementary site, the nucleotides that paired to nucleotides 3 and 5 of the miRNA were substituted (see Author's map), using the Quikchange site-directed mutagenesis kit (Stratagene). To construct the Renilla luciferase reporters, wild-type and mutant Hmga2 3' UTRs were amplified (PCR primers, 5'-GCGTCTCGAGGGGCGCCGACATTC and 5'GGCGCGGCCGCGAGTCAGAGGGGCACAC) and cloned into the XbaI and NotI sites of pIS1.

Plasmid Name: Hmga2 3'UTR wt luciferase (Luc-wt)

Record Creation Time: 20220422T221825+0000

Record Last Update: 20260815T080707+0000

Ratings and Alerts

No rating or validation information has been found for Hmga2 3'UTR wt luciferase (Luc-wt).

No alerts have been found for Hmga2 3'UTR wt luciferase (Luc-wt).

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 8 mentions in open access literature.

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

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

Seth P, et al. (2019) Regulation of MicroRNA Machinery and Development by Interspecies S-Nitrosylation. *Cell*, 176(5), 1014.

Parisi S, et al. (2017) Lin28 is induced in primed embryonic stem cells and regulates let-7-independent events. *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*, 31(3), 1046.

Stremersch S, et al. (2016) Comparing exosome-like vesicles with liposomes for the functional cellular delivery of small RNAs. *Journal of controlled release : official journal of the Controlled Release Society*, 232, 51.

Powers JT, et al. (2016) Multiple mechanisms disrupt the let-7 microRNA family in neuroblastoma. *Nature*, 535(7611), 246.

Paz EA, et al. (2014) Polyamines are oncometabolites that regulate the LIN28/let-7 pathway in colorectal cancer cells. *Molecular carcinogenesis*, 53 Suppl 1, E96.

Liu Q, et al. (2014) HMGA2 is down-regulated by microRNA let-7 and associated with epithelial-mesenchymal transition in oesophageal squamous cell carcinomas of Kazakhs. *Histopathology*, 65(3), 408.

Hyun S, et al. (2014) Dicer nuclease-promoted production of Let7a-1 microRNA is enhanced in the presence of tryptophan-containing amphiphilic peptides. *Chembiochem : a European journal of chemical biology*, 15(11), 1651.