Resource Summary Report

Generated by NIF on Aug 3, 2026

HOXA9-MSCV-CD24

RRID:Addgene_20975
Type: Plasmid

Proper Citation

RRID:Addgene_20975

Plasmid Information

URL: http://www.addgene.org/20975

Proper Citation: RRID:Addgene_20975

Insert Name: HOXA9

Organism: Mus musculus

Bacterial Resistance: Ampicillin

Defining Citation: PMID:18474618

Vector Backbone Description: Vector Backbone:MSCV (murine stem cell virus); Vector Types:Mammalian Expression, Retroviral; Bacterial Resistance:Ampicillin

Comments: *Please note that the full sequence verified by Addgene differs from the original depositor's map and thus the numbers and nomenclature used by the depositor may differ from the Addgene map.* Depositor's Comments: We discovered that, although a 1,975-nt full-length Hoxa9 clone (numbered from the protein start site; I.M.A.G.E. clone BC055059) would produce protein when transiently expressed from the murine stem cell virus (MSCV) long terminal repeat, following retroviral transduction, the HOXA9 protein could not be detected. Since this cDNA contained two putative polyadenylation signals in the 3' UTR, we removed these sites to determine if they were interfering with retrovirally mediated protein expression. The site at nt 1798 was replaced using a primer containing a KpnI sequence in place of the AATAAA sequence together with a primer containing the BglII site at nt 749 to amplify a 1,052-nt BglII-KpnI fragment by PCR. A second primer containing the KpnI site in place of the polyadenylation signal at nt 1798 was used in conjunction with a primer containing an AAT-to-CGG change in the polyadenylation signal at nt 1975 and an adjacent XhoI site for cloning to generate a 150-nt KpnI-XhoI fragment. Standard methods were used to combine these fragments to create a 1,975-nt Hoxa9 cDNA encoding an N-terminal FLAG-tagged version of the mature protein but lacking the two putative polyadenylation signals. The resulting MSCV clone produced high levels of FLAG-HOXA9 protein and immortalized BM cells.

Plasmid Name: HOXA9-MSCV-CD24

Relevant Mutation: Full length cDNA with ~1.1kb 3'UTR with 2 putative polyA signals mutated to allow expression in MSCV+CD24 selection epitope (FACS surface marker). No polyA signal.

Record Creation Time: 20220422T222053+0000

Record Last Update: 20260801T081001+0000

Ratings and Alerts

No rating or validation information has been found for HOXA9-MSCV-CD24.

No alerts have been found for HOXA9-MSCV-CD24.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We have not found any literature mentions for this resource.