Resource Summary Report

Generated by RRID on Aug 26, 2026

p5E-Runx1+23

RRID:Addgene_69602
Type: Plasmid

Proper Citation

RRID:Addgene_69602

Plasmid Information

URL: http://www.addgene.org/69602

Proper Citation: RRID:Addgene_69602

Insert Name: Runx1 +23 intronic enhancer

Organism: Mus musculus

Bacterial Resistance: Kanamycin

Defining Citation: PMID:25594182

Vector Backbone Description: Backbone Marker:Invitrogen; Backbone Size:4777; Vector Backbone:pENTR attL4-R1; Vector Types:5' Gateway Entry Vector; Bacterial Resistance:Kanamycin

Comments: All PCR was performed using the High Fidelity Advantage 2 PCR Kit (Clontech). The Runx1 +23 enhancer (1) was PCR amplified from C57/BL6 mouse genomic DNA using the following primers: Forward (XhoI and BamHI sites added) 5'-GGCTCGAGGGATCCGGGGTGGGAGGTGTAAGTTC-3' and Reverse (BglII and NotI sites added) 5'- GGGCGGCCGCAGATCTCAGGTGTCAGCAACCCATC -3'. The PCR fragment was gel purified, XhoI/BglII digested, ligated into XhoI/BamHI digested Tol2kit (2) #228 p5E-MCS vector and sequence verified. The mouse beta-globin minimal promoter was PCR amplified from C57/BL6 mouse genomic DNA using the following primers: Forward (SpeI site added) 5'-GGACTAGTCCAATCTGCTCAGAGAGGACA-3' and Reverse (SacII site added) 5'-GGCCGCGGGATGTCTGTTTCTGAGGTTGC-3'. The beta-globin minimal promoter and Runx1+23 5' entry vector were SpeI/SacII digested and ligated together. Multisite Gateway reactions were performed according to the Invitrogen protocol. 1. Nottingham, W. T., Jarratt, A., Burgess, M., Speck, C. L., Cheng, J.-F., Prabhakar, S., et al. (2007). Runx1-mediated hematopoietic stem-cell emergence is controlled by a Gata/Ets/SCL-regulated enhancer. Blood, 110(13), 4188–4197. http://doi.org/10.1182/blood-2007-07-100883 2. Kwan, K. M., Fujimoto, E., Grabher, C., Mangum, B. D., Hardy, M. E., Campbell, D. S., et al. (2007). The Tol2kit: a multisite

gateway-based construction kit for Tol2 transposon transgenesis constructs. Developmental Dynamics : an Official Publication of the American Association of Anatomists, 236(11), 3088–3099. http://doi.org/10.1002/dvdy.21343

Plasmid Name: p5E-Runx1+23

Record Creation Time: 20220422T222431+0000

Record Last Update: 20260815T081859+0000

Ratings and Alerts

No rating or validation information has been found for p5E-Runx1+23.

No alerts have been found for p5E-Runx1+23.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 4 mentions in open access literature.

Listed below are recent publications. The full list is available at RRID .

Lints R, et al. (2024) Mutational cooperativity of RUNX1::RUNX1T1 isoform 9a and oncogenic NRAS in zebrafish myeloid leukaemia. Biology open, 13(9).

Wang D, et al. (2023) Transgenic IDH2R172K and IDH2R140Q zebrafish models recapitulated features of human acute myeloid leukemia. Oncogene, 42(16), 1272.

He BL, et al. (2020) Follistatin is a novel therapeutic target and biomarker in FLT3/ITD acute myeloid leukemia. EMBO molecular medicine, 12(4), e10895.

Lancino M, et al. (2018) Anisotropic organization of circumferential actomyosin characterizes hematopoietic stem cells emergence in the zebrafish. eLife, 7.