

Resource Summary Report

Generated by [NIF](#) on Jul 30, 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: 20260725T075043+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 [NIF](#) .

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.