

Resource Summary Report

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

pXL010-Wnt dual (GFP-Fire) reporter

RRID:Addgene_40588

Type: Plasmid

Proper Citation

RRID:Addgene_40588

Plasmid Information

URL: <http://www.addgene.org/40588>

Proper Citation: RRID:Addgene_40588

Insert Name: Wnt reporter sequences

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:22177620](#)

Vector Backbone Description: Backbone Marker:addgene; Vector Backbone:pSicoR PGK Puro; Vector Types:Mammalian Expression, Lentiviral; Bacterial Resistance:Ampicillin

Comments: This lentiviral Wnt reporter has 7 repeats of Tcf/Lef binding sites, which was cloned by Xiaojun (Lance) Lian. Methods for Plasmid construction, lentiviral production and infection of hESCs: The 7 TCF/LEF binding site sequences were obtained by direct PCR of plasmid M50 (Addgene plasmid 12456) and the GreenFire (GF) sequences were obtained by direct PCR of the pGreenFire1-mCMV Plasmid (System Bioscience TR010PA-1). These two sequences were cloned into pSicoR PGK puro (Addgene plasmid 11586) digested by Xba I (NEB) and Xho I (NEB). The constructed Wnt reporter plasmid was named 7TGFP and verified by sequencing. This 7TGFP vector was cotransfected with the helper plasmids psPAX2 and pMD2.G (Addgene plasmids 12260 and 12259) into HEK-293TN cells (System Biosciences) for virus production. Virus-containing medium was collected at 48 and 72 hours after transfection and used for infection of hESCs in the presence of 6?g/mL polybrene (Sigma). Transduced cells were cultured in mTeSR1 on Matrigel for three days and then clonally isolated in mTeSR1 with 1 ?g/mL puromycin.

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Record Creation Time: 20220422T222210+0000

Ratings and Alerts

No rating or validation information has been found for pXL010-Wnt dual (GFP-Fire) reporter.

No alerts have been found for pXL010-Wnt dual (GFP-Fire) reporter.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 3 mentions in open access literature.

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

Pentinmikko N, et al. (2022) Cellular shape reinforces niche to stem cell signaling in the small intestine. Science advances, 8(41), eabm1847.

Li Y, et al. (2021) The Role of the Wnt Pathway in VEGF/Anti-VEGF-Dependent Control of the Endothelial Cell Barrier. Investigative ophthalmology & visual science, 62(12), 17.

Wang L, et al. (2020) Down-regulation of Beclin1 promotes direct cardiac reprogramming. Science translational medicine, 12(566).