

Resource Summary Report

Generated by [RRID](#) on Sep 1, 2026

TS module

RRID:Addgene_26021

Type: Plasmid

Proper Citation

RRID:Addgene_26021

Plasmid Information

URL: <http://www.addgene.org/26021>

Proper Citation: RRID:Addgene_26021

Insert Name: Tension Sensor module

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:20613844](#)

Vector Backbone Description: Backbone Marker:Invitrogen; Backbone Size:5428; Vector Backbone:pcDNA3.1; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: There are a few discrepancies with the author sequence. These mismatches are in the pcDNA3.1(+) part of the vector, not the specific inserts. So they should be of little consequence.

Plasmid Name: TS module

Record Creation Time: 20220422T222116+0000

Record Last Update: 20260829T080255+0000

Ratings and Alerts

No rating or validation information has been found for TS module.

No alerts have been found for TS module.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 10 mentions in open access literature.

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

Shoyer TC, et al. (2024) Detection of fluorescent protein mechanical switching in cellulo. Cell reports methods, 4(7), 100815.

Hu L, et al. (2024) Comparison of vinculin tension in cellular monolayers and three-dimensional multicellular aggregates. Biomedical optics express, 15(9), 5199.

Ayad MA, et al. (2022) Förster resonance energy transfer efficiency of the vinculin tension sensor in cultured primary cortical neuronal growth cones. Neurophotonics, 9(2), 025002.

Haas AJ, et al. (2020) Interplay between Extracellular Matrix Stiffness and JAM-A Regulates Mechanical Load on ZO-1 and Tight Junction Assembly. Cell reports, 32(3), 107924.

Hayward AN, et al. (2019) A toolkit for studying cell surface shedding of diverse transmembrane receptors. eLife, 8.

Dumas JP, et al. (2019) FRET efficiency measurement in a molecular tension probe with a low-cost frequency-domain fluorescence lifetime imaging microscope. Journal of biomedical optics, 24(12), 1.

Woroniuk A, et al. (2018) STEF/TIAM2-mediated Rac1 activity at the nuclear envelope regulates the perinuclear actin cap. Nature communications, 9(1), 2124.

Arsenovic PT, et al. (2018) Using Nesprin Tension Sensors to Measure Force on the LINC Complex. Methods in molecular biology (Clifton, N.J.), 1840, 59.

Arsenovic PT, et al. (2017) A Protocol for Using Förster Resonance Energy Transfer (FRET)-force Biosensors to Measure Mechanical Forces across the Nuclear LINC Complex. Journal of visualized experiments : JoVE(122).

Rubashkin MG, et al. (2014) Force engages vinculin and promotes tumor progression by enhancing PI3K activation of phosphatidylinositol (3,4,5)-triphosphate. Cancer research, 74(17), 4597.