

Resource Summary Report

Generated by [dkNET](#) on Aug 22, 2026

MDCK Actin-cpstFRET-Actin

RRID:CVCL_ZV91

Type: Cell Line

Proper Citation

RRID:CVCL_ZV91

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_ZV91

Proper Citation: RRID:CVCL_ZV91

Description: Cell line MDCK Actin-cpstFRET-Actin is a Spontaneously immortalized cell line with a species of origin *Canis lupus familiaris* (Dog)

Sex: Female

Defining Citation: [PMID:25422450](#)

Comments: Characteristics: Used to report forces in actin in living cells. Has one actin molecule attached on each end of cpstFRET. The cpstFRET (circularly permuted stretch sensitive FRET) sensor consists of a pair of tandemly connected circularly permuted CFP/YFPs (cpCerulean/cpVenus). Mechanical loading twists the dipole orientation from near parallel to diagonal, decreasing FRET efficiency.

Category: Spontaneously immortalized cell line

Organism: *Canis lupus familiaris* (Dog)

Name: MDCK Actin-cpstFRET-Actin

Synonyms: MDCK AcpA

Cross References: Wikidata:Q98127195

ID: CVCL_ZV91

Hierarchy: cvcl_0422

Record Creation Time: 20220427T220757+0000

Record Last Update: 20260815T234603+0000

Ratings and Alerts

No rating or validation information has been found for MDCK Actin-cpstFRET-Actin.

No alerts have been found for MDCK Actin-cpstFRET-Actin.

Data and Source Information

Source: [Cellosaurus](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.