

Resource Summary Report

Generated by [dkNET](#) on Sep 5, 2026

MDCK Actinin-M-cpstFRET

RRID:CVCL_ZV93

Type: Cell Line

Proper Citation

RRID:CVCL_ZV93

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_ZV93

Proper Citation: RRID:CVCL_ZV93

Description: Cell line MDCK Actinin-M-cpstFRET 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 actinin in living cells. Has one actinin molecule with the cpstFRET sensor incorporated between spectrin repeat domains 3 and 4 toward the middle of actinin. 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 Actinin-M-cpstFRET

Synonyms: MDCK M-cpstFRET

Cross References: Kerafast:EBU026, Wikidata:Q98127198

ID: CVCL_ZV93

Hierarchy: cvcl_0422

Record Creation Time: 20220427T220757+0000

Record Last Update: 20260904T014626+0000

Ratings and Alerts

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

No alerts have been found for MDCK Actinin-M-cpstFRET.

Data and Source Information

Source: [Cellosaurus](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.