

Product Components List

Lenti-X™ Actin Dynamics Monitoring Kit

Catalog No.	Amount
631076	Each

Description

Use this kit to monitor the highly dynamic behavior of the actin filament system in live cells. The Lenti-X Actin Dynamics Monitoring Kit includes lentiviral vectors encoding actin fusions to DD-AcGFP1 (green, destabilized) and mCherry (red), as well as the DD's stabilizing ligand Shield1. Once your cells have been infected with the included vectors, DD-AcGFP1-Actin is continuously targeted for degradation by the proteasomes, unless the cells are cultured in medium containing the stabilizing ligand Shield1. By contrast, mCherry-Actin (which does not contain the DD) has normal stability and is constitutively present in the cell.

Adding and removing Shield1 creates a “pulse-chase” like set of conditions which allow you to monitor how newly synthesized, Shield-stabilized DD-AcGFP1-Actin (green) is integrated into the existing (red) mCherry-Actin actin filament network (1).

Package Contents

- pLVX-DD-AcGFP1-Actin Vector (Cat. No. 631077; Not sold separately) [>>View Components](#)
- pLVX-mCherry-Actin Vector (Cat. No. 631078; Not sold separately) [>>View Components](#)
- Shield1 (500 µl) (Cat. No. 632189) [>>View Components](#)

For storage conditions, please see the Certificate of Analysis supplied with each component.

Product Documents

Documents for our products are available for download at www.clontech.com/manuals

The following documents apply to this product:

- Lenti-X Actin Dynamics Monitoring Kit Protocol-at-a-Glance (PT5111-2)
- pLVX-DD-AcGFP1-Actin Vector Information Packet (PT5115-5)
- pLVX-mCherry-Actin Vector Information Packet (PT5114-5)

Reference

1. On-Demand Protein Stabilization Using the Lenti-X ProteoTuner™ Systems (October 2008) *Clontechniques* **XXIII**(3):2–3.

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This document has been reviewed and approved by the Quality Department.