

Product Components List

ProteoTuner™ Shield System C

Catalog No.	Amount
631072	Each

Description

The ProteoTuner Shield System C utilizes a ligand-dependent destabilization domain (DD-C) and a membrane-permeant stabilizing ligand, Shield1, to quickly and directly regulate the amount of your protein of interest present in a cell or organism. First, your gene of interest is cloned into the pPTunerC Vector and expressed as a fusion with the destabilization domain (DD-C). Then the Shield1 ligand is either added or withheld, depending on your experiment.

In the presence of Shield1, the DD-C-tagged protein is stabilized and accumulates inside the cell. This ligand-dependent stabilization occurs very quickly, and has been observed as soon as 15–30 minutes after the addition of Shield1. In the absence of Shield1, the DD-C-tagged protein of interest is unstable. Consequently, removal of Shield1 allows for active and controllable degradation of the protein of interest. The extent of stabilization via Shield1 can be adjusted, and directly correlates with the amount of the ligand in the medium. Therefore, you can tune the level of your protein of interest present in the cell, by controlling the amount of the Shield1 ligand.

Package Contents

- pPTunerC Vector (Cat. No. 631071; 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:

- ProteoTuner Plasmid-Based Shield Systems User Manual

Notice to Purchaser

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

Takara Bio USA, Inc.

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