

Biological Use Cases

Constructs

This example shows constructs but could also be antibodies, cell lines, exosomes, etc.

Overview Batches 1 Plates 1 Results 9 Collections 1 Projects

NO STRUCTURE

Definition [Edit definition and structure](#)

Name: SJS-0000175

Synonyms: ACT2A::R14A

Salt: Unknown Salt

Mutation: R14A

Protein Sequence: MSHTIRDKQKLKAAASKIQ
GQVVALKKMLDEPHECAA
VLQQIAAIRGAVNGLMREV
IKCHI TEHIVHOGDELKPE

Bgal Reporter Assay Results details

Construct Validation Results details

Immunoblot Validation Results details

Microscopy Results details

Unique name for duplicate checking

Entity descriptors

Result data

Sequence

Plasmid Map

Fasta

seq_R14A.fa

Timeline of results

Upload images from third party software

Immunoblot Validation

Western Blot

HeLa CHO NIH-3T3 K562

180
130
100
70

Upload images from phone or desktop

MW (kD)

100

Primary Antibody

ab17348

Microscopy

Fluorescence Image

Create protocols to store desired results

Experiment details

ELN

Normal Text | B | / | U | [List Icon] | [List Icon] | [Link Icon]

Previously: [Entry: 2423 - Generation of X mutants](#) ; [Entry: 2419 - Pr...](#)
Results: [Structure Prediction - 2018-08-21](#)

Assay Annotation

This is an assay investigating the biological process of **annealing activity**, specifically targeting **DNA** from **Escherichia coli** using a **binding assessment method**.

This is a **binding type** assay with the detection method **UV-Vis**.

Autogenerated text based on selections

Target

Bioassay Type	Organism
- binding type	- Escherichia coli
- dsDNA preparation assay	Target
	- DNA

Method

Assay Format	Assay Footprint
- nucleic acid format	- agarose gel electrophoresis
Assay Design Method	Physical Detection
- binding assessment method	- UV-Vis

Summary table of assay

Assay Annotation

TARGET	METHOD
Organism: Escherichia coli	
Target: DNA	
Biological Process: annealing activity	

Quickly describe assays

dsDNA Annealing Protocol

1. Mix equal concentrations (0.5 ug) of For and Rev strand DNA (site 1, site 2, site 3).
2. Heat at 95C for 10 min for site 1.
3. Heat 95C for 20 min for site 2.
4. Cool to RT and incubate on ice for 5 min.
5. Ethanol precipitate.

Steps used in experiment

Select from curated ontologies or enter free text

Search CDD Vault

Search | Saved Searches | Collections | Entities

Results ?

In [dropdown] Exosome Accumulation [dropdown]
(any run) [dropdown]
Exosome Delivery Method [dropdown] = Intravenous Injection [dropdown]

Example query

+ Add a term

Complex queries supported

Structures ?

substructure similarity > 70%

Launch the Structure Editor

Chemical Properties ?

(select property) [dropdown]

Collections ?

In [dropdown] (select a collection) [dropdown]

+ Add a term Remove term

Keywords ?

Any field
Ultracentrifuge