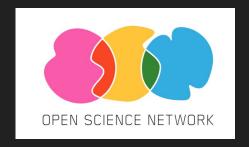
You can engineer biology with the Open Yeast Collection

Living things are factories for making bio-molecules.

Scott Pownall
President & Cofounder, OSN
scott@opensciencenet.org



What is the Open Yeast Collection?

A collection of DNA parts for engineering yeast.

- > Free, reusable and redistributable
- > Extensible add your own parts, adapt to other species
- > Useful for community bio, education, research or industry

Designed by



FREE

Synthesised by



Distributed under



Funded by



- > 19 Yeast Promoters
- > 14 Genes (CDS), 2 Secretion tags, 1 nuclear localization signal
- > 9 Yeast Terminators
- > 8 Yeast Selection Markers
- > 7 Pairs of homology regions for genome integration
- > 3 Yeast Origins
- > 1 Origin of Transfer
- > 7 Pairs of Assembly Connectors for multi-gene assembly
- > 4 E. coli selection and origins parts
- > 3 Optional assembly bridges

What what are the DNA Parts?



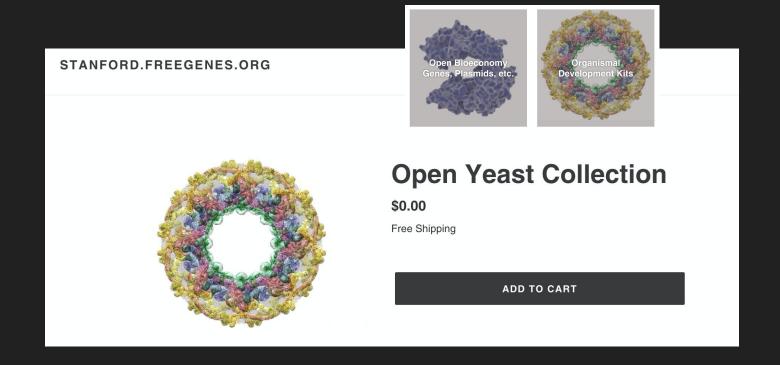


Isaac Larkin Keoni Gandall Hannah Elaine Verdonk Grace Li-Na Su



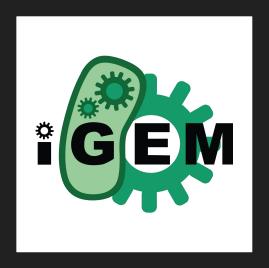






https://stanford.freegenes.org/

- > Drew Endy
- > Keoni Gandall
- ➤ Hannah Elaine Verdonk
- Grace Li-Na Su
- > Isaac Larkin
- > Jenny Molloy & Open BioEconomy Team

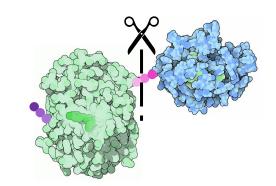


Gratitude

- Working with the Open Yeast Collection
 - *Tomorrow* at 1:00 1:45 pm EST
 - MITOCHONDRIA Room
- Join Friendzymes
- Reagent Collaboration Network

How to Get Involved

Open Enzyme Collection



Tag

Reporter

Cleave

CDS

Polymerases

Ligases

Reverse Transcriptases

Terminator

His Silica Cellulose

10

Chromoproteins Fluorescent proteins Enzymatic

31

Inteins TFV

SUMO

>60

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A GLOBAL COLLABORATION FOR EQUITABLE ACCESS TO BIOTECHNOLOGY

Reagent Collaboration Network





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