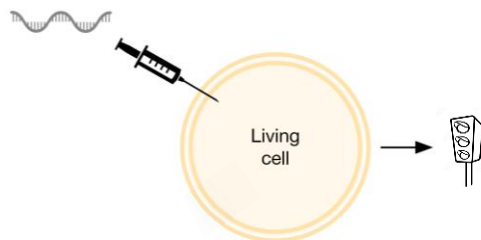


# DELs in Cells - Snap

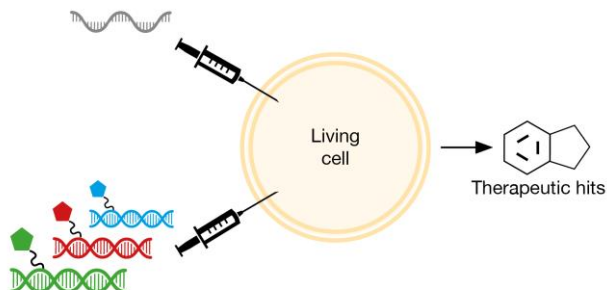
Your easy, fast and affordable way to get an early lead

## 1<sup>st</sup> Stage – Expression Study



- You provide the amino acid sequence of your target protein
- We test for successful protein expression
- You receive report & go-no-go recommendation
- Timeline: 1 month

## 2<sup>nd</sup> Stage – Screening



- You say "Go"
- We screen your target in a living cell with 500 million member high diversity/high quality DEL
- You receive report and chemical structure information for 25 top hits
- Timeline: 1 month

- Never been easier
- Pay as you go – two payments
- Low cost
- Standardized process
- High success rate
- No need for purified target protein
- Screen under physiologically relevant conditions
- Hit exclusivity

### DELs

DNA Encoded Libraries are collections of small molecules, each linked to unique DNA sequences. These DNA sequences act as barcodes for the small molecules, allowing the tracking of the individual small molecules. The use of DELs facilitates rapid screening and identification of hits from large chemical libraries, streamlining the drug discovery process.

### Cells

*Xenopus laevis* oocytes, often referred to as the "living test tube," have been widely used in research since the 70s. They are large cells, approximately 1 mm in diameter with a volume of about 1  $\mu$ L, which allows for microinjections. They are highly suitable for conducting individual experiments within a single cell, often described as one cell, one experiment. The oocytes are particularly effective for expressing heterologous proteins, achieving a success rate of over 95%. This makes them a valuable tool in various fields of research, especially when studying the function and pharmacology of proteins in a living cell environment.

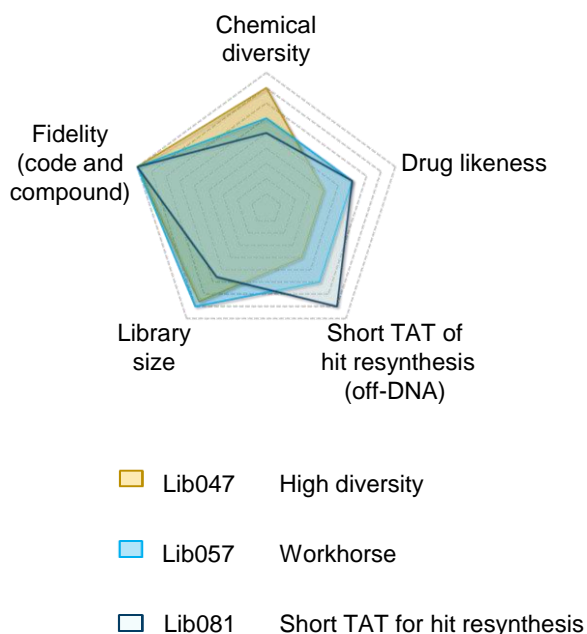
## Business models

	DELs in Cells	DELs in Cells – Snap
Input	target protein sequence	target protein sequence
Cost	\$\$ (quotation)	\$ (fixed price)
Target protein size	up to 500 kDa	up to 75 kDa
Integral membrane proteins amenable	yes (cytoplasmic side)	yes (cytoplasmic side)
Purified target protein requirement	no	no
DNA-encoded library (truncates eliminated)	>1 billion	~500 million
Assay development requirement	no	No
Screening design	customized	Predefined
Assay development requirement	no	No
TAT	8-20 weeks	8 weeks
Deliverables	structures of all hits	structures of up to 25 hits
Hit exclusivity	yes	yes

## DNA-encoded libraries available

	Lib047	Lib057	Lib081
Size (million compounds)	499	535	381
Molecular weight (avg)	605	525	525
cLogP (avg)	2.7	0.77	0.9
Rotatable bonds (avg)	10.5	8.7	8.9
TPSA (avg)	152	138	137
Fsp <sup>3</sup> (avg)	0.5	0.6	0.6

- Low false positive rate
- High fidelity – 100% code to compound correspondence
- Truncates eliminated
- Only robust chemistries
- Diversity by building blocks
- Resynthesized hits (off-DNA) available from us



## About Aurigen Pharmaceutical Services

Aurigen, a Dr. Reddy's Laboratories company, is a global contract research, development, and manufacturing organization (CRDMO) focused on accelerating innovation in drug discovery and manufacturing. It offers integrated and standalone services for discovery chemistry, biotherapeutics, and development and manufacturing for clinical phase I-III programs, regulatory submission batches, and commercial manufacturing.

**Website:** [www.aurigeneservices.com/](http://www.aurigeneservices.com/)  
**Contact us:** [contactapsl@aurigeneservices.com](mailto:contactapsl@aurigeneservices.com)



## About ViperGen

ViperGen is a world-leading provider of small-molecule drug discovery services based on DNA-encoded library (DEL) technologies and is the first and only company capable of screening DELs inside a living cell. ViperGen provides its proprietary suite of leading-edge DEL technologies through funded discovery partnerships with leading pharmaceutical and biotechnology companies, including top pharmaceutical companies in the U.S., EU, and Japan.

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