

# Q2 2022: What's new in Selector (Reagents and model systems)

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We are excited to announce new enhancements on the platform between April and June 2022

Over the past three months, we've added data from over **27.1 million experiments** and **4.2 million products** across our reagent and model system types. Other notable updates include:

- An enhanced **Bioactivity** filter that reinforces vendor bioactivity claims with data from the literature, plus a new **Supplier Validation** filter to narrow in on protein products that the vendor has tested
- Improvements to the breadth of our data with **Oxford University Press** journals as a new data source
- An update to our **Gene Expression** filter that facilitates finding appropriate reporter cell line products based on the reporter gene of interest

## 1. New filters for bioactive and validated protein products

Wondering if a product has evidence of bioactivity or has been validated by vendors? Use the improved **Bioactivity** filter to review 94,600 figures from the literature supporting vendors' bioactivity claims of their protein products. Plus, use the new **Supplier Validation** filter to review 96,800 vendor-provided figures that validate a protein product through experiments such as *western blot*, *SDS-PAGE*, or *HPLC*. Filter for your experimental context and see the evidence for yourself to decide which products you trust for your experiments.

Learn more about our [Bioactivity](#) and [Supplier Validation](#) filters!

Recombinant Human TNF-alpha Protein, CF

Save to List View Vendor Site

SPECs FIGURES (1.2 K) EXPERIMENTAL DATA PROTEIN INFO

Filters

Application

Figure Usage Data

Organism Tested

Tissue Used

Cell Type Used

Cell Line Used

Disease

Bioactivity Figures

Published (909) Supplier (1) Third Party (0)

SORT BY BEST MATCH

Published Figure: FEBS letters 2013

Published Figure: Proceedings of the Nation... 2011

Published Figure: Physiol Rep 2017

Published Figure: PLoS ONE 2015

CellTx

CellTx

ActA CellTx

CellTx

1 2 3 4 5 ... 228

## 2. Oxford University Press as an additional data source

We've analyzed over 850,000 articles from 120 **Oxford University Press** bioscience journals and extracted data from 1.3 million new experiments to provide scientists with additional insights regarding appropriate reagents and model systems for their experiments. We will continue to add more data from **Oxford University Press** as new articles are published to keep scientists up-to-date with the latest research.

## 3. Find reporter cell lines with an improved Gene Expression filter

Save more time finding reporter cell lines on the platform to visualize and track protein expression in your experiments! View data for over 2,600 products by searching for *Reporter assay* in the **Application** filter, then use the **Gene Expression** filter to surface cell products that express a reporter gene of interest.

Learn more about [identifying reporter cell lines!](#)

The screenshot displays a search interface with the following elements:

- Search Bar:** Contains filters for "Gene Expression (Vendor) LUCIFERASE (All)" and "Application Reporter Assay".
- Filters:** A sidebar on the left lists "Application", "Figure Usage Data", "Supplier Filters", "Availability", and "Company".
- Results:** Shows "PRODUCTS (1 K)" and "FIGURES (7)". A specific product is highlighted: "RTG-P1 (ATCC® CRL-2829™)" from the "American Type Culture Collection | CRL-2829".
- Reporter Assay Dropdown:** A menu is open showing options: "Published Figures (1)" (selected), "Vendor Recommended", and "Export Selection".
- Product Details:** Includes a bar chart, a "1 Matching Figure of 3 total" label, and a list of tags: "Rptir", "gPCR", "ActA", "Inhb", and "iCult".
- Vendor-Provided Gene Expression:** Lists "LUCIFERASE (Expression/OE)", "+ 1 More", and "BSL 2".

## 4. Search for protein structure data

We've added protein structure data to the platform from over 200,000 experiments generated using techniques such as electron microscopy and crystallography. Our technology now identifies these experimental techniques by leveraging **Protein Data Bank** identifier codes cited in the literature. This information can provide insight into protein-ligand/protein-protein interactions or other properties of a protein of interest.

Learn more about [protein structure data!](#)

## 5. Improved Vector Format filter to find all-in-one CRISPR vector plasmids

In CRISPR experiments, it's often more convenient to deliver Cas nuclease and gRNA reagents together with an *all-in-one* vector. Thanks to feedback from our users, we have added a new *all-in-one* option in the **Vector Format** filter to quickly find "all-in-one" CRISPR reagents.

Disease		Search Vector Format	
Supplier Filters		Vector Format	
Availability		Products	With Published Figures
Company		<input type="checkbox"/> All-in-one vector	1.7 M 186
gRNA Specs		<input type="checkbox"/> Lentiviral particles	1.5 M 4
gRNA Type		<input type="checkbox"/> Plasmid	1.4 M 247
Target Species		<input type="checkbox"/> Lentiviral plasmid	1.3 M 14
Cas Compatibility		<input type="checkbox"/> Aav particles	1.3 M 0
Sequence		<input type="checkbox"/> All-in-one viral particles	609.1 K 4
Target Location		<input type="button" value="CANCEL"/> <input type="button" value="APPLY"/>	

Please note that access to these features and enhancements will depend on which reagents and model systems are available at your organization.