

Quick Start Guide: Selector

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Up to **50% of reagents** are unsuitable and fail to produce reproducible results. Within the **ASCEND by BenchSci platform**, our **Selector** application helps scientists streamline the selection of suitable reagents and model systems and avoid unnecessary purchases and validation experiments.

1. Video Overview of Selector
2. Impact of Selector on Biomedical Research
3. Steps to Get Started with Selector

What is Selector?

Impact on Biomedical Research

Over **50,000 scientists** at pharmaceutical companies, biotech companies, and 4,500+ academic institutions use **Selector**. BenchSci has developed powerful technology that is **proven to**:



Accelerate research by selecting products in seconds vs. weeks



Reduce reagent spending and save millions per year



Optimize experiment success and increase research productivity



Have a quantifiable impact with a proven, turnkey application

Explore data for a range of common reagents and model systems

Antibodies 

Represents about 40-50% of reagent waste, with millions of products and hundreds of vendors

CRISPR 

Requires complex selection of compatible vectors, Cas nucleases, and guide RNA

Proteins 

Includes recombinant and purified proteins which are often the second-highest source of waste after antibodies

Animal Models 

Often need to consult many studies to identify a model that has been successfully utilized in similar experiments

RNAi 

Challenging to search for since products are often custom and cited by their sequence

PCR Primers & Probes 

Fundamental molecular biology techniques with millions of products with slight variations that can be difficult to choose from

Cell Products 

A critical component of experiments that are prone to mislabeling and unclear validation methods

Comprehensive coverage of trusted literature sources and vendor databases

Experiment data from over **27 million** preprint, open- and closed-access publications

Partnerships with leading scientific publishers including **Springer Nature** and **Wiley**

Independent validation sources including **The Human Protein Atlas** and **EuroMAbNet**

Product catalog data for more than **85 million** products from **450 vendors**

Leverage AI technology to advance your workflow

100 kDa human recombinant modified amino-terminal BPI
 recombinant holo-BPI were provided by XOMA (14). BPI 21 g
 in assay and no endotoxin was detected. These preparat
 Primary antibodies for immunoblotting included anti-g
 USA). Akt (Cell Signaling), phospho-p44/42 (Cell Sign
 y Inc., Santa Cruz, CA, USA) were obtained from comm
 ies were from R&D Systems (Minneapolis, MN, USA),
 sodium fluorescein (Eli Lilly, Indianapolis, IN, USA),
 amobarbital (Eli Lilly, Indianapolis, IN, USA), Afli-Ge

Cell	Target	Category #	Company	Date added	MSD (MS)	IP	Market?	Location	Notes
CD19	CD19	10011	BD Biosciences	2018	NA	NA	Yes		Flow antibody
CD19	CD19	10011	BD Biosciences	2018	NA	NA	Yes		Flow antibody
CD19	CD19	10011	BD Biosciences	2018	NA	NA	Yes		Flow antibody
CD19	CD19	10011	BD Biosciences	2018	NA	NA	Yes		Flow antibody
CD19	CD19	10011	BD Biosciences	2018	NA	NA	Yes		Flow antibody
CD19	CD19	10011	BD Biosciences	2018	NA	NA	Yes		Flow antibody
CD19	CD19	10011	BD Biosciences	2018	NA	NA	Yes		Flow antibody
CD19	CD19	10011	BD Biosciences	2018	NA	NA	Yes		Flow antibody
CD19	CD19	10011	BD Biosciences	2018	NA	NA	Yes		Flow antibody
CD19	CD19	10011	BD Biosciences	2018	NA	NA	Yes		Flow antibody

Before

- Manually scanning papers for experiment details
- Manually scanning through vendor catalogs for suitable reagents and model systems
- Spreadsheets to track potential reagents



After

- Text and image-based AI detects details from a figure/experiment like a Ph.D. scientist
- Bioinformatics data and ontologies connect reagent and model usage to diseases, experiment types, and other contexts
- Streamlined gene/protein datasets to reduce common challenges with aliases
- Intuitive interface to curate lists of products that match experiment criteria and validation conditions

Start Searching with Selector!

Also available in [Japanese \(日本語\)](#) and [Chinese \(中文\)](#).

1. Log into Selector

Log in with your institutional email address at app.benchsci.com or click your company logo in this article.

2. Enter search criteria

Specify product type(s)

Enter search criteria: e.g. target gene, protein, cell line name, experiment application, etc.

3. Filter and view search results that match your experiment conditions

Commercial filters

Vendor-provided specifications

Experiment type

Experimental context from publications

4. View figures from peer-reviewed publications, preprints, vendors, and third-party sources

Click on a figure to view more details

5. Review details from figures to learn more about what reagents/model systems are used in experiments

Published Figure
Journal of Biological Chemistry (2019)
 High-mobility group box 1 links sensing of reactive oxygen species by huntingtin to its nuclear entry
 Susie Son Et Al.

[Link to view publication](#)

[See Publication](#)

PRODUCTS AND EXPERIMENTS

Verified Antibody IP

Anti-Huntingtin Protein Antibody, a.a. 181-810, clone 1HU-4C8
 EMD Millipore, MAB2166
 Cited in paper |

[View Product](#)

Products detected in the figure

A


	Control			10nM 3-NP			kDa
	Input	Beads	HMOB1	Input	Beads	HMOB1	
N17							35
MLL							25
S13A							35
S16A							25

C

	Control			10nM 3-NP			kDa
	Input	Beads	Co-IP	Input	Beads	Co-IP	
EPR5526							345
anti-HMOB1							25

6. Review product details

Target	HTT, HUNTINGTIN	View product specifications
Host	Mouse	
Clonality	Monoclonal	
Clone ID	1HU-4C8	

Application	Published Figures	Vendor Recommended	 <p>762 Published Figures from 292 Publications</p>	Learn more about how the reagent or model system has been used in experiments
Western Blot	571	⊙		
Immunostaining	140	⊙		
Immunoprecipitation	120	⊙		

7. Explore custom data integrations to build confidence in your search

Additional features integrated with your company's internal data may be available for scientists at your company. [Log into the Knowledge Center](#) to see company-specific articles.

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Email us: support@benchsci.com

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