

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

Accession	Host	Target species	Catalogue #	Company	Date prepared	USE (2005)	#	Marked?	Location	Notes
CG2007-001	Man	CG2007-001	CG2007-001	CG2007-001	2007-001	CG2007-001	CG2007-001	CG2007-001	CG2007-001	CG2007-001
CG2007-002	Man	CG2007-002	CG2007-002	CG2007-002	2007-002	CG2007-002	CG2007-002	CG2007-002	CG2007-002	CG2007-002
CG2007-003	Man	CG2007-003	CG2007-003	CG2007-003	2007-003	CG2007-003	CG2007-003	CG2007-003	CG2007-003	CG2007-003
CG2007-004	Man	CG2007-004	CG2007-004	CG2007-004	2007-004	CG2007-004	CG2007-004	CG2007-004	CG2007-004	CG2007-004
CG2007-005	Man	CG2007-005	CG2007-005	CG2007-005	2007-005	CG2007-005	CG2007-005	CG2007-005	CG2007-005	CG2007-005
CG2007-006	Man	CG2007-006	CG2007-006	CG2007-006	2007-006	CG2007-006	CG2007-006	CG2007-006	CG2007-006	CG2007-006
CG2007-007	Man	CG2007-007	CG2007-007	CG2007-007	2007-007	CG2007-007	CG2007-007	CG2007-007	CG2007-007	CG2007-007
CG2007-008	Man	CG2007-008	CG2007-008	CG2007-008	2007-008	CG2007-008	CG2007-008	CG2007-008	CG2007-008	CG2007-008
CG2007-009	Man	CG2007-009	CG2007-009	CG2007-009	2007-009	CG2007-009	CG2007-009	CG2007-009	CG2007-009	CG2007-009
CG2007-010	Man	CG2007-010	CG2007-010	CG2007-010	2007-010	CG2007-010	CG2007-010	CG2007-010	CG2007-010	CG2007-010
CG2007-011	Man	CG2007-011	CG2007-011	CG2007-011	2007-011	CG2007-011	CG2007-011	CG2007-011	CG2007-011	CG2007-011
CG2007-012	Man	CG2007-012	CG2007-012	CG2007-012	2007-012	CG2007-012	CG2007-012	CG2007-012	CG2007-012	CG2007-012
CG2007-013	Man	CG2007-013	CG2007-013	CG2007-013	2007-013	CG2007-013	CG2007-013	CG2007-013	CG2007-013	CG2007-013
CG2007-014	Man	CG2007-014	CG2007-014	CG2007-014	2007-014	CG2007-014	CG2007-014	CG2007-014	CG2007-014	CG2007-014
CG2007-015	Man	CG2007-015	CG2007-015	CG2007-015	2007-015	CG2007-015	CG2007-015	CG2007-015	CG2007-015	CG2007-015
CG2007-016	Man	CG2007-016	CG2007-016	CG2007-016	2007-016	CG2007-016	CG2007-016	CG2007-016	CG2007-016	CG2007-016
CG2007-017	Man	CG2007-017	CG2007-017	CG2007-017	2007-017	CG2007-017	CG2007-017	CG2007-017	CG2007-017	CG2007-017
CG2007-018	Man	CG2007-018	CG2007-018	CG2007-018	2007-018	CG2007-018	CG2007-018	CG2007-018	CG2007-018	CG2007-018
CG2007-019	Man	CG2007-019	CG2007-019	CG2007-019	2007-019	CG2007-019	CG2007-019	CG2007-019	CG2007-019	CG2007-019
CG2007-020	Man	CG2007-020	CG2007-020	CG2007-020	2007-020	CG2007-020	CG2007-020	CG2007-020	CG2007-020	CG2007-020
CG2007-021	Man	CG2007-021	CG2007-021	CG2007-021	2007-021	CG2007-021	CG2007-021	CG2007-021	CG2007-021	CG2007-021
CG2007-022	Man	CG2007-022	CG2007-022	CG2007-022	2007-022	CG2007-022	CG2007-022	CG2007-022	CG2007-022	CG2007-022
CG2007-023	Man	CG2007-023	CG2007-023	CG2007-023	2007-023	CG2007-023	CG2007-023	CG2007-023	CG2007-023	CG2007-023
CG2007-024	Man	CG2007-024	CG2007-024	CG2007-024	2007-024	CG2007-024	CG2007-024	CG2007-024	CG2007-024	CG2007-024
CG2007-025	Man	CG2007-025	CG2007-025	CG2007-025	2007-025	CG2007-025	CG2007-025	CG2007-025	CG2007-025	CG2007-025
CG2007-026	Man	CG2007-026	CG2007-026	CG2007-026	2007-026	CG2007-026	CG2007-026	CG2007-026	CG2007-026	CG2007-026
CG2007-027	Man	CG2007-027	CG2007-027	CG2007-027	2007-0					

- Products Type

[Overexpression](#)
[Antibody Overexpression](#)
[Western blot](#)
[ELISA](#)

Products Type

Figures Usage Data

Organism Tested

Tissue Used

Cell Type Used

Line Used

Disease

Drug

Supplier Filters

Availability

Company

Antibody Specs

Verification

Reactivity

Products (20)

Figures (822)

☐

Verified Antibody

Anti-Huntingtin Protein Antibody, a.a. 181-810, clone 1HU-4C8

EMD Millipore | MAB2136

654 Matching Figures

of 870 total

Cell

Tissue

Disease

Drug

Line

Reactivity:

Monkey, Rabbit, Rat, Mouse, Human

> See More

☐

Verified Antibody

Anti-Huntingtin Protein Antibody, clone mEM48

EMD Millipore | MAB5376

115 Matching Figures

of 277 total

Cell

Tissue

Disease

Drug

Line

Reactivity:

Rat, Mouse, Human

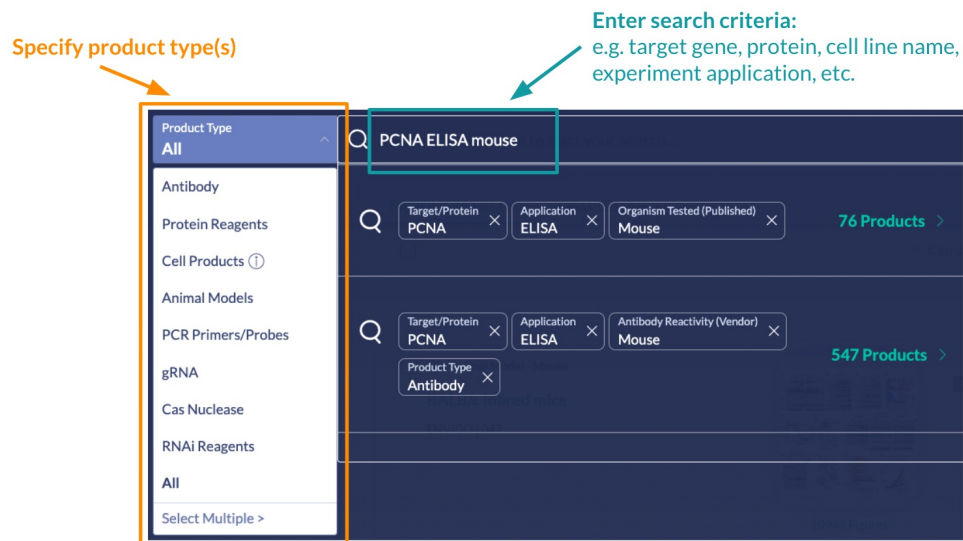
> See More

- 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

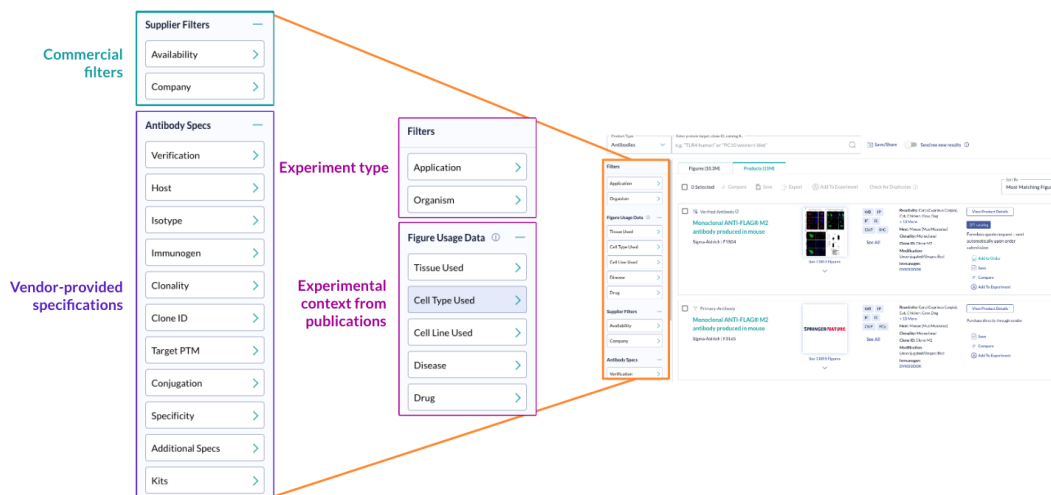
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2. Enter search criteria

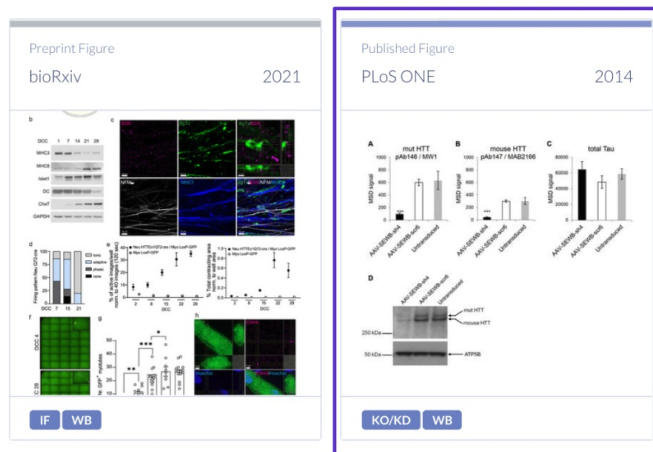


3. Filter and view search results that match your experiment conditions



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			10mM 3-NP			
	Input	Beads	HMGB1	Input	Beads	HMGB1	kDa
N17							~35
MBL							~35
S13A							~35
S16A							~25

C

	Control			10mM 3-NP			
	Input	Beads	Co-IP	Input	Beads	Co-IP	kDa
EPR5526							~345
anti-HMGB1							~35

6. Review product details

Target HTT, HUNTINGTIN

Host Mouse

Clonality Monoclonal

Clone ID 1HU-4C8

[View product specifications](#)

Application	Published Figures	Vendor Recommended
Western Blot	571	⊙
Immunostaining	140	
Immunoprecipitation	120	⊙

Published Application Distribution

762 Published Figures from 292 Publications

[Learn more about how the reagent or model system has been used in experiments](#)

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

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