

# Example CRISPR search strategy

Last Modified on 22/03/2023 4:26 pm EDT

**Try searching first for a gRNA, and then identify a compatible Cas nuclease. Then, search separately for a Cas nuclease.**

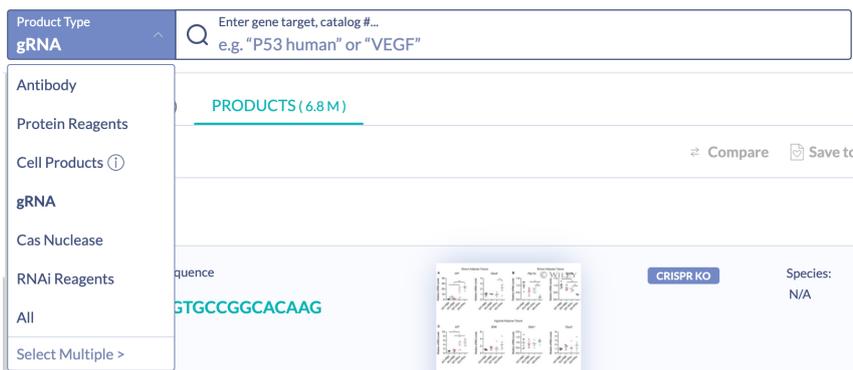
If you are looking for tips or guidance on building your first search for CRISPR reagents, here's a strategy to try. There is more than one way to arrive at meaningful results in ASCEND by BenchSci, but try this to start. As a general principle, start with a broad search for gRNA against your target of interest and then iteratively narrow the search by applying filters.

## Scenario

You are looking to knockout the human HNRNPF gene.

### Step one: Select the **Product Type**

Open the **Product Type** Filter and select **CRISPR gRNA**. Optional — apply the **Application** filter



### Step two: Search for your target

Enter the target, HNRNPF into the search bar.



### Step three: Evaluate the figures or products results

Open any figure thumbnails that appear interesting, and (optional) follow the link to the product page.

Published Figure  
**Scientific Reports (2019)**  
 Tubular Deficiency of Heterogeneous Nuclear Ribonucleoprotein F Elevates Systolic Blood Pressure and Induces Glycosuria in Mice  
 Chao-Sheng Lu Et Al.  
[See Publication](#)

PRODUCTS AND EXPERIMENTS

Matching Your Search (1)

Your Search: Hnrnpf Human, Data Type: gRNA

**Invitrogen TrueGuide™ crRNA - heterogeneous nuclear ribonucleoprotein F**  
 Thermo Fisher Scientific, CRISPR1099776\_CR  
 Cited in paper by Catalog #   
 Sequence   
[See Product Details >](#)

MORE FIGURES FROM THIS PUBLICATION

HNRNPF HUMAN Aliases:  
 HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN F, N-TERMINALLY PROCESSED, HNRNPF, NUCLEOLIN-LIKE PROTEIN MCS94-1, HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN F, HNRNPF, HNRPF

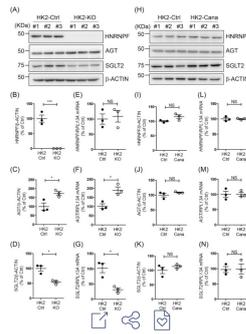


Figure 6 AGT and SGLT2 expression in HK-2 with or without HNRNPF KO. (A) WB, (B - D) semi-quantitation of WB and (E - G) RT-qPCR of HNRNPF, AGT, SGLT2 and beta-ACTIN in different clones of HK-2 Ctrl and HK-2 with

### Step four: Evaluate product specs on the product page

The product page can give you sequence information, target species, target location, scores for on- and/or off-target effects, PAM sequence and Cas nuclease compatibility. In this case, the gRNA is compatible with Cas9.

PRODUCT INFO	PRODUCT FIGURES (1)	TARGET INFO
<b>Target</b>	HNRNPF, NUCLEOLIN-LIKE PROTEIN MCS94-1 +1 more	
<b>Target Species</b>	Human	
<b>Cas Compatibility</b>	Cas9	
<b>Sequence</b>	GTAGATGAAATGGACACCTG	
<b>Strand</b>	Forward	
<b>PAM</b>	CGG	
<b>Chr Location</b>	Chr.10: 43385617 - 43409248 on GRCh38	
<b>Target Location</b>	Exon 4	
<b>Score</b>	95.96/100	
<b>Brand</b>	TrueGuide™	

### Step five: Search for a Cas nuclease

Start a new search for a Cas nuclease compatible with your gRNA, **but without a target in the search bar**. Here, you can select in what format you'd like your Cas Nuclease; a vector, purified protein, or mRNA.

Product Type

**Cas Nuclease**

Antibody

Protein Reagents

Cell Products

gRNA

**Cas Nuclease**

RNAi Reagents

All

Select Multiple >

PRODUCTS (1.4 K)

Compare Save to

Cas9 - Protein

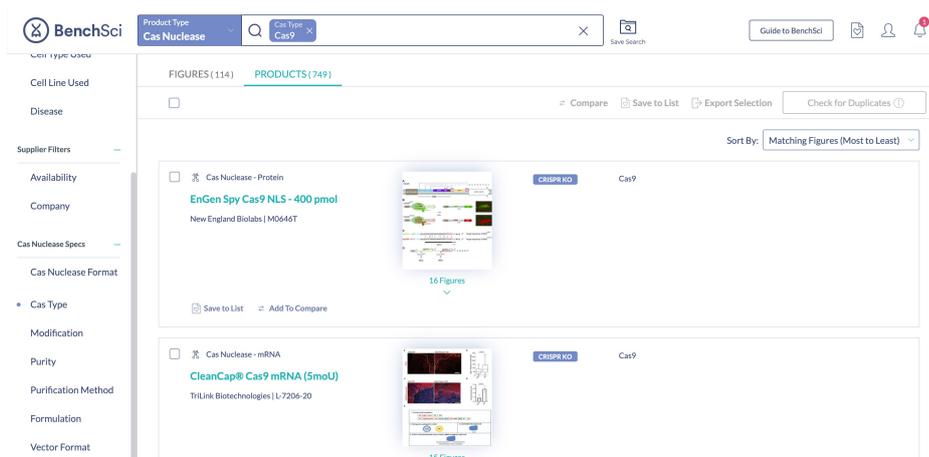
**Cas9 NLS - 400 pmol**

iolabs | M0646T

Cas9

### Step six: Apply the Cas Type filter

Because we discovered in the last step that our gRNA was Cas9 compatible, we can immediately filter products for the appropriate nuclease.



### Step seven: Review the products and optionally add filters

Review the product results and any associated figures to inform your choice, optionally adding any other filters to further narrow your search.

After that, the science is up to you!

Please check out our [Guide to Filters for CRISPR Reagents](#) to learn more about our filters!