

CAN A LLAMA VHH CHANGE ELISpot DETECTION?

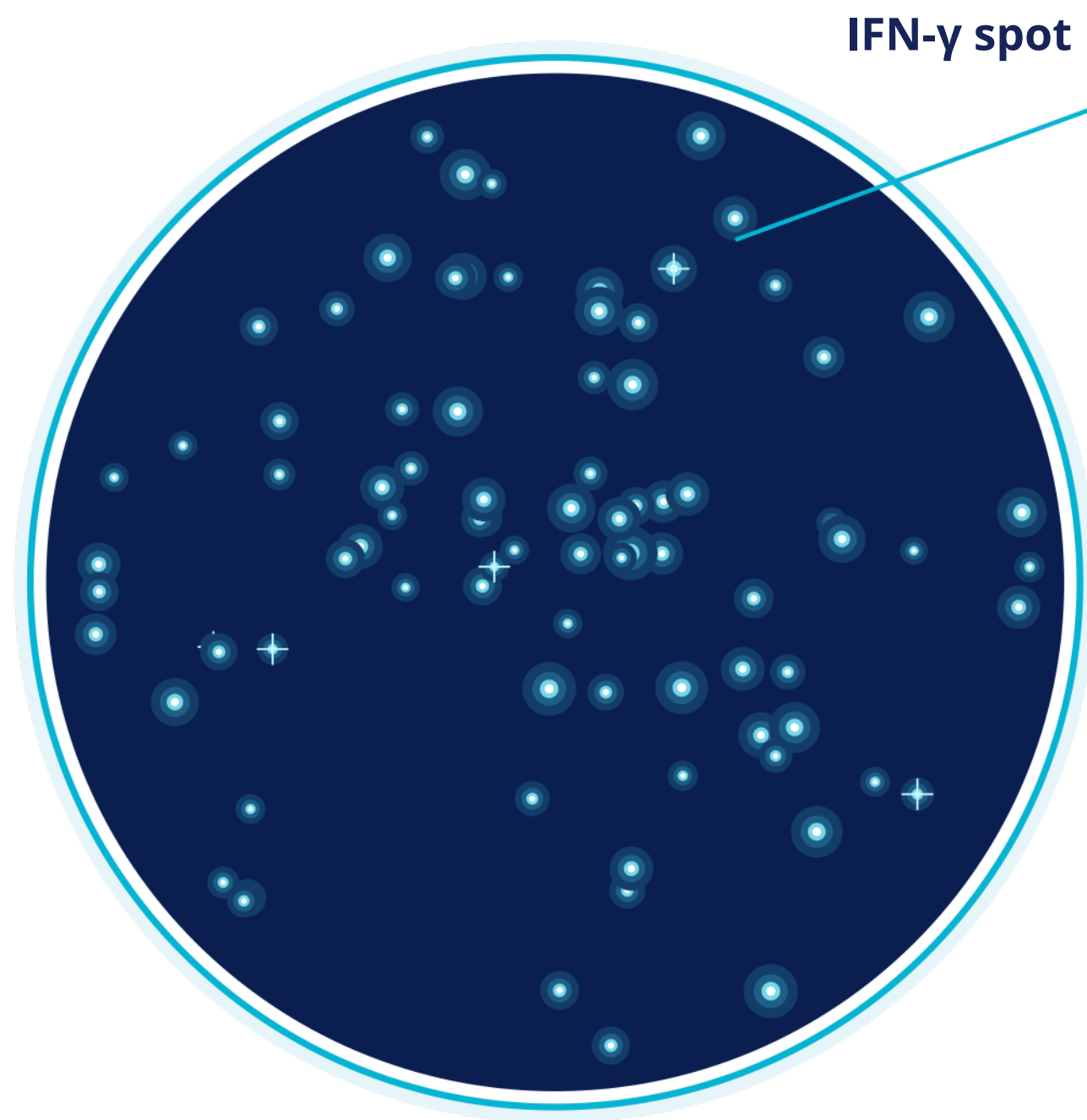
A recombinant alternative to rabbit
polyclonal detection antibodies

Swipe to discover the study



Research Led by Diaclone - part of Medix Biochemica

ONE SPOT ONE SECRETING CELL



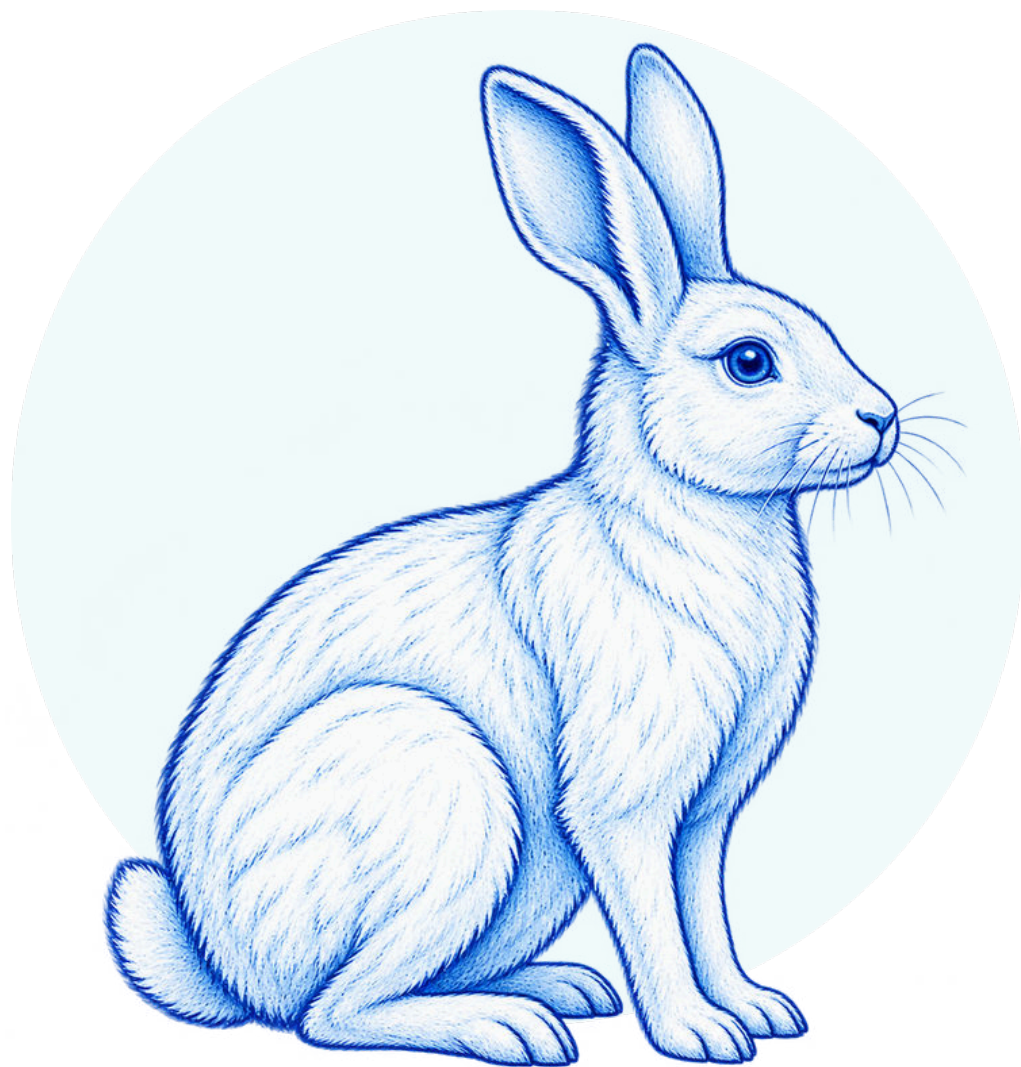
READ THE IMMUNE RESPONSE

IFN- γ ELISpot counts cells releasing interferon gamma, even in rare immune responses

Useful for assessing vaccine and immunotherapy responses

Like stars in a well, each spot reveals a secreting cell

WHY MOVE BEYOND RABBIT POLYCLONALS?



Rabbit polyclonal serum

Variable antibody composition
between batches
Supply depends on the animal

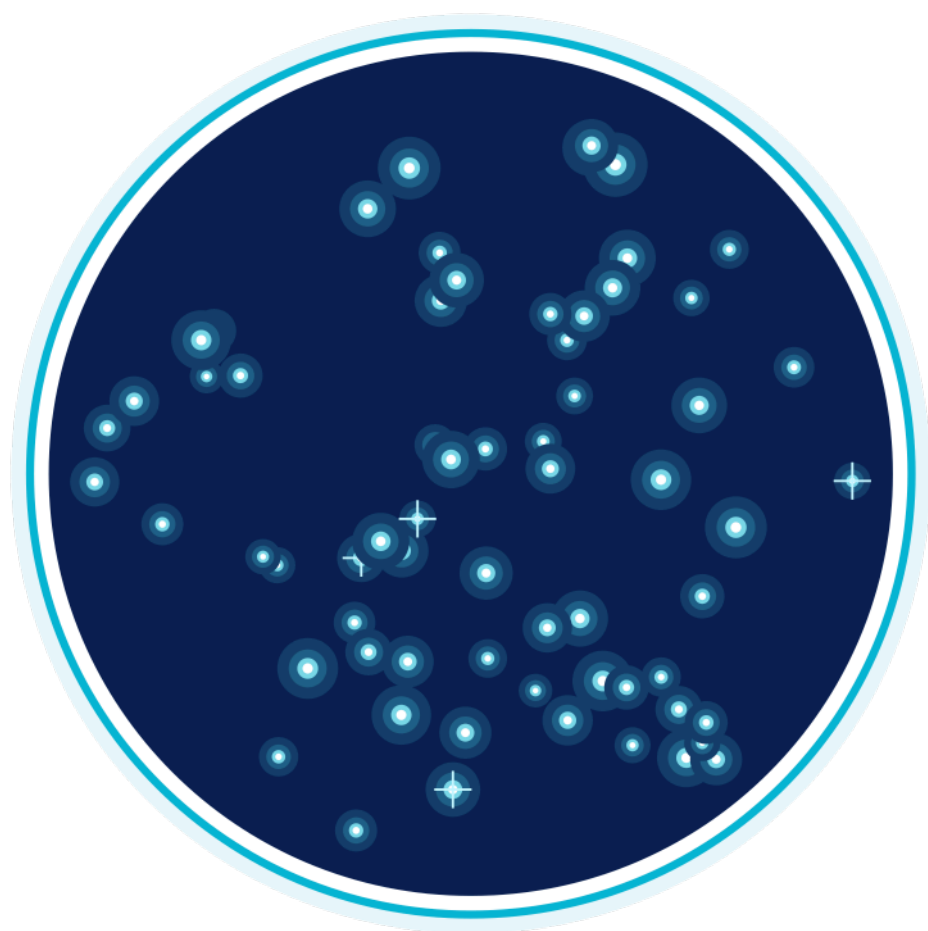
Recombinant VHH-hFc

A defined sequence
A reproducible route to supply
Evaluated for mouse IFN- γ

The goal: more consistent detection and controlled long-term supply

MORE SPOTS BETTER LINEARITY

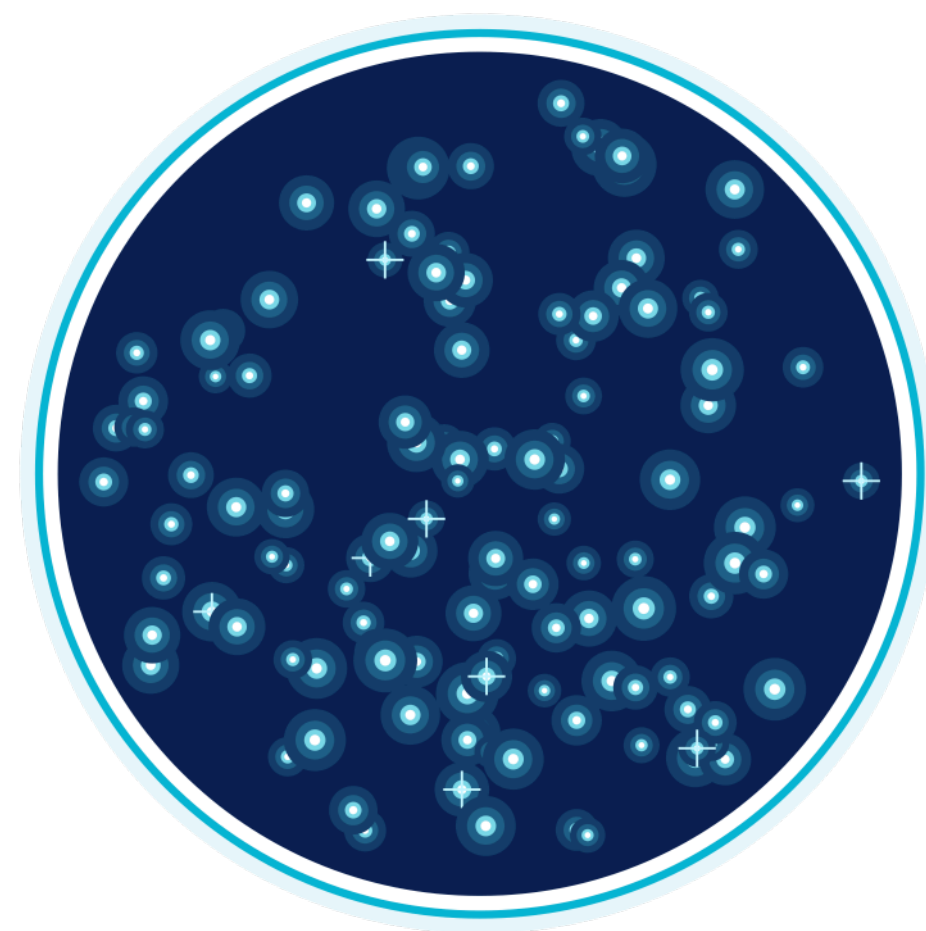
Published comparison with 100,000 stimulated mouse cells



Rabbit polyclonal

~350 spots

$R^2 = 0.96$



Recombinant VHH-hFc

~650 spots

$R^2 = 0.99$

A recombinant alternative with improved sensitivity and linearity

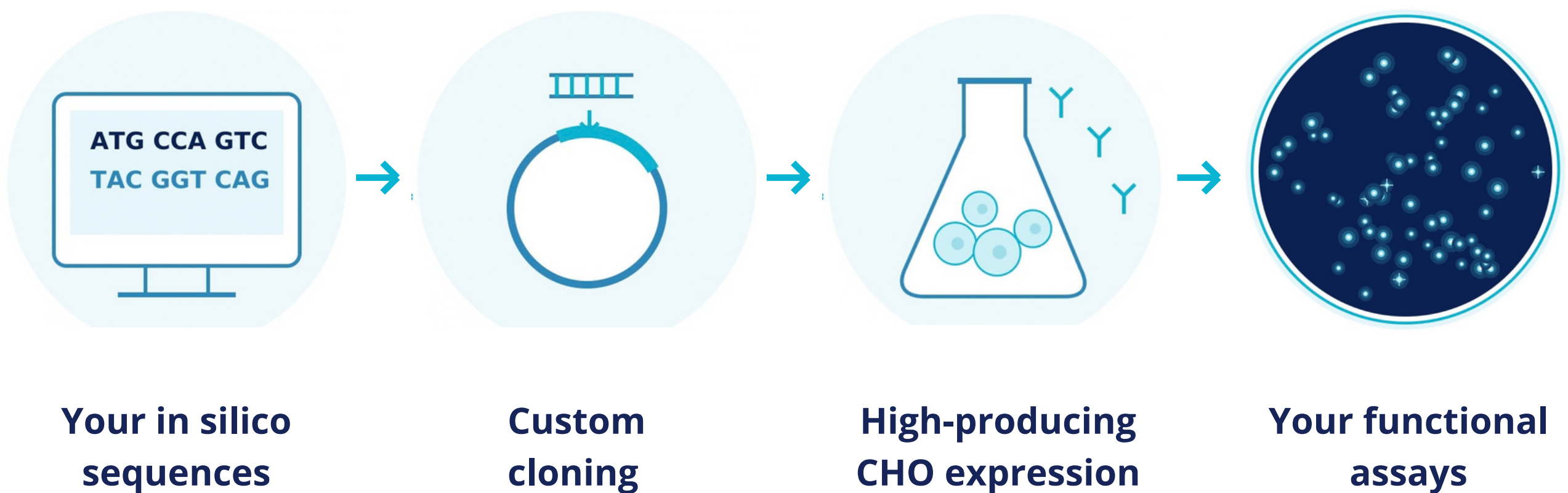
Schematicwells · Illustrativespots,notrawexperimentalimages

Reynas et al., Int. J. Mol. Sci. (2025)

BEHIND EVERY SPOT THE RIGHT REAGENT MATTERS

The VHH-hFc candidates evaluated in this study were produced using **RD-Biotech's** high-performance transient CHO expression platform

Bring your in silico sequences to the lab with our custom recombinant antibody and protein production services



Let's produce the candidates behind your next discovery