Portofolio **hCD3** mouse models

genOway | ULTIMATE PREDICTABILITY

Support your T CELL ENGAGER PROGRAM through its preclinical journey with the right CD3 model at each scientific step

thanks to genOway's unique portfolio of **humanized CD3 mouse models**

Key scientific questions → **Preclinical journey** supported by **genOway's program-based approach** → **Relevant preclinical data**

	POC studies	Advanced studies: Other T cell receptors	Advanced studies: ICPs	Advanced studies: Fc receptors
Efficacy **Safety** **PK** **Biodistribution**	The **genO-panhCD3** & **genO-hCD3ε** reference mouse models	Advanced **hCD3** mouse models with other **humanized T cell receptors**	Advanced **hCD3** mouse models with **humanized immune checkpoints**	Advanced **hCD3** mouse models with **humanized Fc receptors**



Compatible humanized tumor cell lines

Our program-based approach:

- **Free scientific expertise at your disposal:** for selecting the right model, running you through the extensive data package, and securing your experimental design
- Possible **crossbreeding rights with your established models:** request for options
- **New models in development.** Please ask for information if you didn't find what you were looking for

What makes our portfolio of humanized CD3 mouse models unique

- ☑ **Physiological expression of humanized targets:** more clinically relevant biology
- ☑ **Robust, extensive validation data generated in-house/with biopharma partners:** de-risk your development program
- ☑ **Fully immunocompetent:** preserve authentic tumor-immune interactions

Easy, quick and secure access: models produced by professional breeders **in US and Europe** with certified health status and immediately available for door-to-door delivery to your facility or the CRO of your choice

Evaluated by a consortium of **6** **leading biopharma companies** with over **5 YEARS** **of track record**

Scan or click to access the **genO-panhCD3 & genO-hCD3ε portfolios**

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genO-panhCD3 & genO-hCD3ε portfolio (scan or click)

Find the right CD3 model for your program

genO-panhCD3 & genO-hCD3ε: reference mouse models with humanized CD3

ASSESS THE EFFICACY AND SAFETY OF CD3-TARGETING THERAPIES SUCH AS T-CELL ENGAGERS AND MONOCLONAL ANTIBODIES, IN IMMUNO-ONCOLOGY, IMMUNOLOGY AND INFLAMMATION

The **genO-panhCD3** model has been validated by a pre-competitive consortium of **6 leading biopharma companies** confirming expression and functionality of all CD3 subunits.

Both models **have been used extensively by leading biopharmaceutical companies, including to support three INDs filings** by AstraZeneca, Zymeworks and Harpoon Therapeutics.

Pfizer · AstraZeneca · Bristol Myers Squibb · zymeworks · HARPOON Therapeutics · Seattle Children's · IRCCS

Advanced versions of the genO-panhCD3 model for more precise and translatable results

Advanced hCD3 models with other humanized T cell receptors

genO-panhCD3/hCD28
genO-hCD3ε/hCD28

EVALUATE CO-STIMULATORY TCES

Test the **efficacy and safety of T cell engagers targeting other T cell receptors** such as CD28 with physiological expression of all targeted receptors.

Based on the **extensively validated genO-panhCD3** and **genO-hCD3ε** reference models

CLIENT REFERENCES

Pfizer · AstraZeneca · Bristol Myers Squibb · zymeworks

All with genO-panhCD3/hCD28

HARPOON Therapeutics · Seattle Children's · IRCCS

All with genO-hCD3ε/hCD28

Advanced hCD3 models with other humanized immune checkpoints

genO-panhCD3/hPD-1
genO-panhCD3/hCD137

EXPLORE COMBINATION STRATEGIES OR TCE TARGETING IMMUNE CHECKPOINTS

Evaluate the efficacy and safety of therapies targeting hCD3 alongside an immune checkpoint, with physiological expression of both humanized targets.

Based on the **extensively validated genO-hPD-1** and **genO-hCD137** reference models

CLIENT REFERENCES

abbvie · janssen · Bristol Myers Squibb · ANAVEON · SEISMIC THERAPEUTIC · charles river · REACTION BIOLOGY

All with genO-hPD-1

Advanced hCD3 models with humanized Fc receptors

genO-panhCD3/hFcγR

ASSESS BOTH TARGET ENGAGEMENT AND Fc EFFECTOR FUNCTION

Combine humanized CD3 with the **genO-hFcγR mouse model** to evaluate therapies whose efficacy and safety depend on both CD3 targeting and FcγR-mediated activity.

Based on the **extensively validated genO-hFcγR** reference models

CLIENT REFERENCES

VIB · argenx · Vir Biotechnology · innate pharma · asylia THERAPEUTICS

All with genO-panhCD3/hFcγR

Compatible humanized tumor cell lines

genO-EL4/...

hCD19-LZ · hCD20-LZ

genO-MC38/...

hEpCAM-LZ · hPD-L1-hHER2 · hPD-L1-hFAP-LZ · hFAP-LZ · hPD-L1 · hPD-L1-LZ

Pair your selected model with compatible humanized cell lines for syngeneic efficacy studies and build a more integrated, translational preclinical strategy

