

# **Anti-MUC16 Tumor Associated Epitope**

## Non-Shed Epitope Anti-MUC16 Antibody

# MUC16 Potential for Ovarian and Other Cancers

## Target Mechanism

Bind a membrane-proximal MUC16 epitope

Membrane-proximal binding avoids epitope elimination by tumors

Bind a non-glycosylated epitope to avoid altered glycosylation on tumors

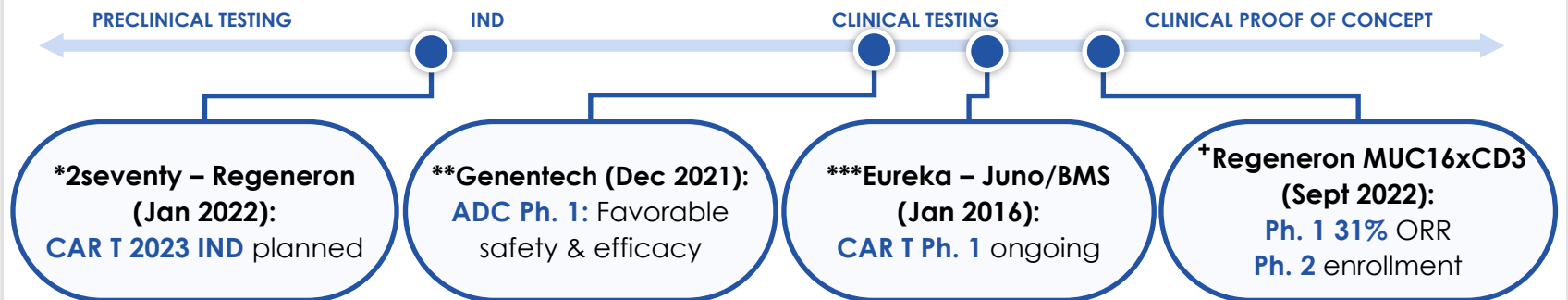
## Potential Indications

- Ovarian
- Uterine
- Pancreatic

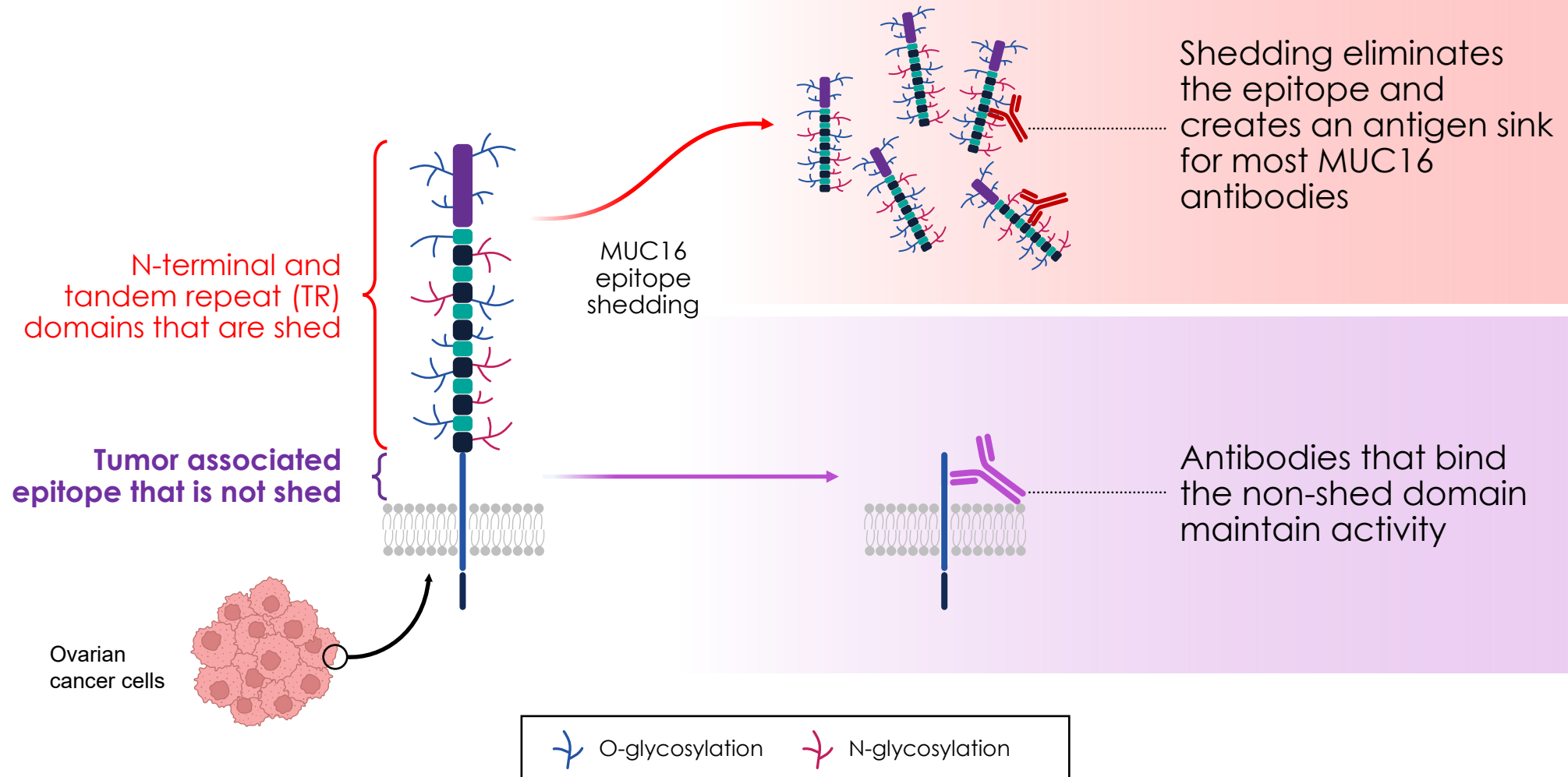
## Differentiation / Opportunity

- MUC16 epitope avoids primary modes of tumor evasion
- Enabling modalities: T Cell engager, ADC, CAR-T

## Recent Transactions & Milestones

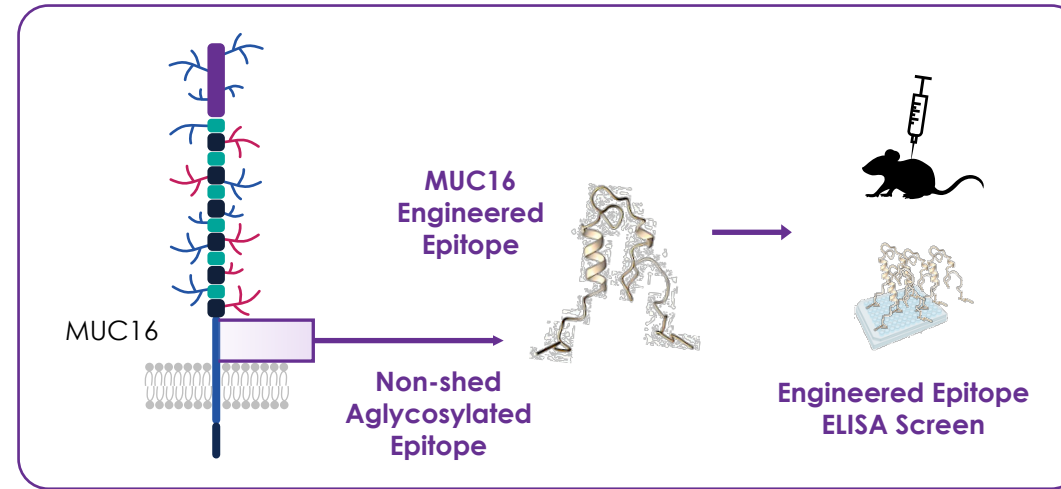


# MUC16 Is Overexpressed and Shed by Tumor Cells

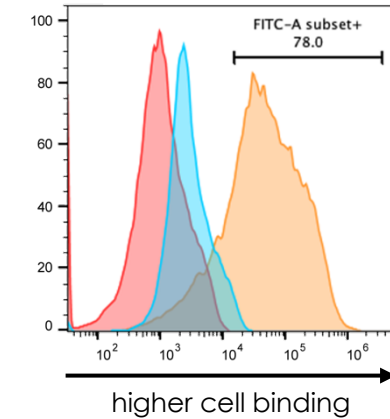


# Immunizations Were Steered to a MUC16 Epitope that Avoids Epitope Shedding

## Structural-epitope Immunization & Screening

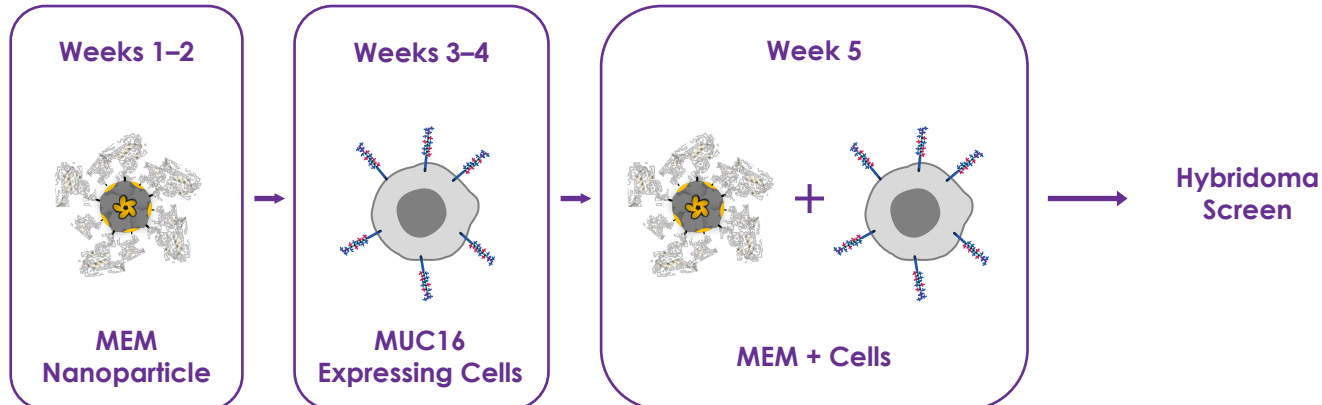


## OVCAR-3 MUC16<sup>high</sup> Cell Binding Screen



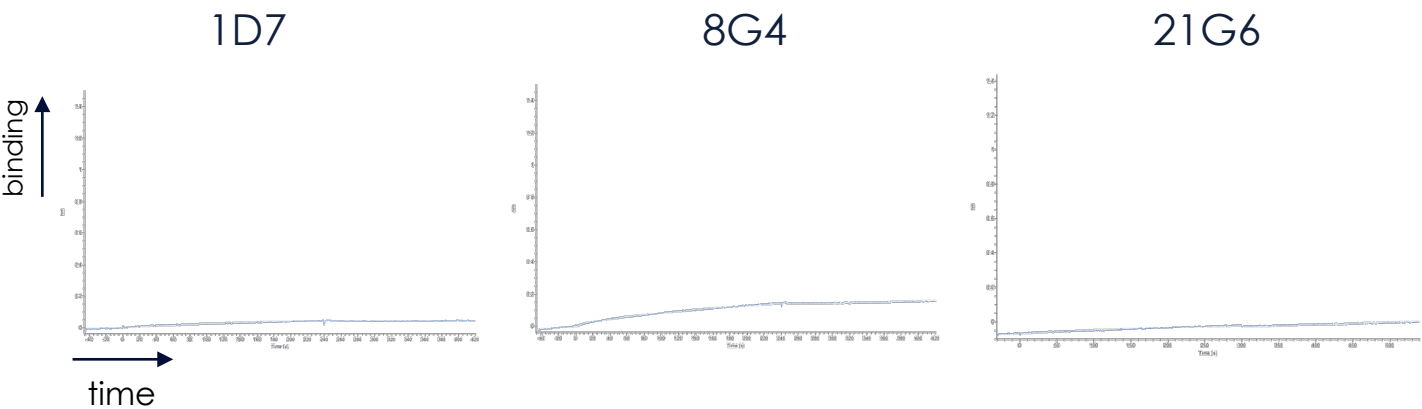
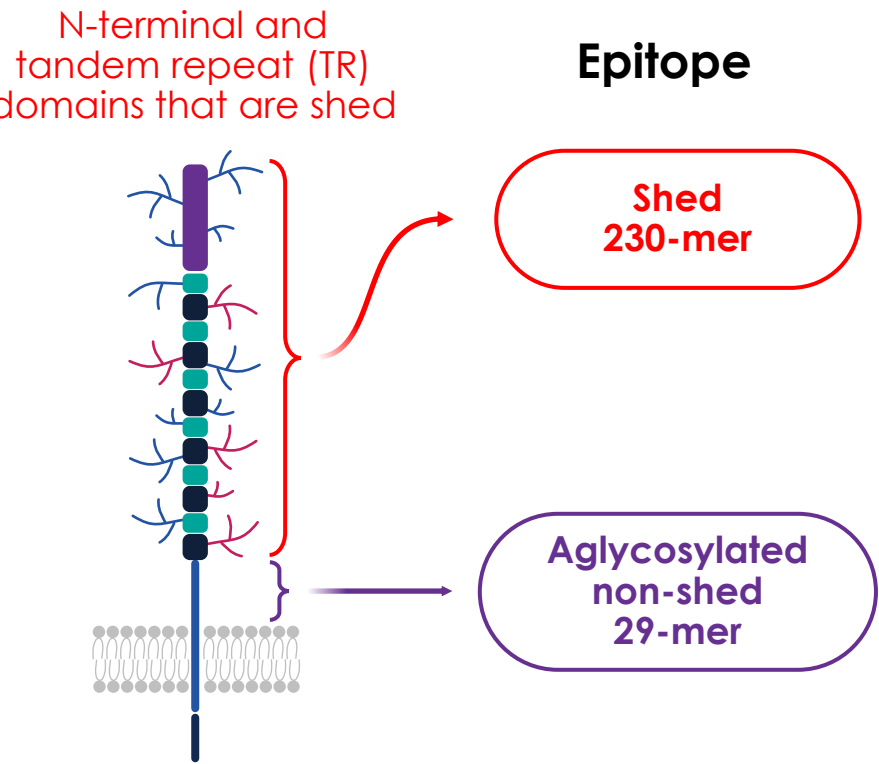
AI Discovery Engine

## Engineered Epitope Prime + MUC16 Cell Boost

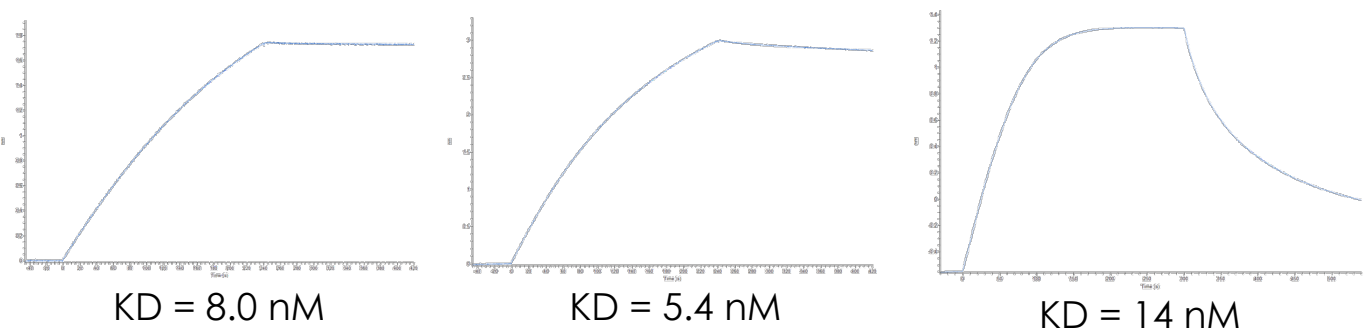


# Top Three Hit Clones Bind the Non-Glycosylated MUC16 Epitope Closest to the Membrane

Hits do not bind shed 230-mer



Hits bind non-glycosylated non-shed 29-mer



⌘ O-glycosylation ⌘ N-glycosylation

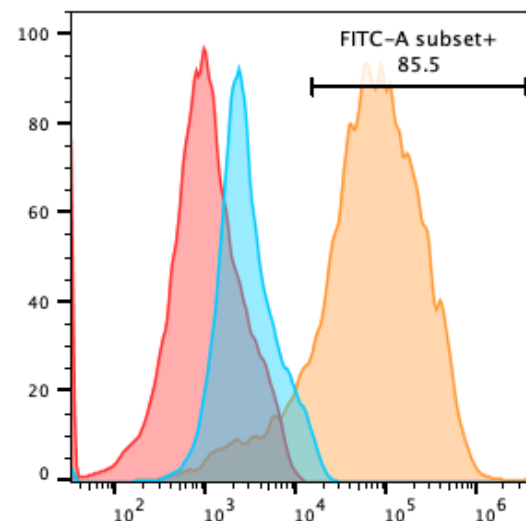
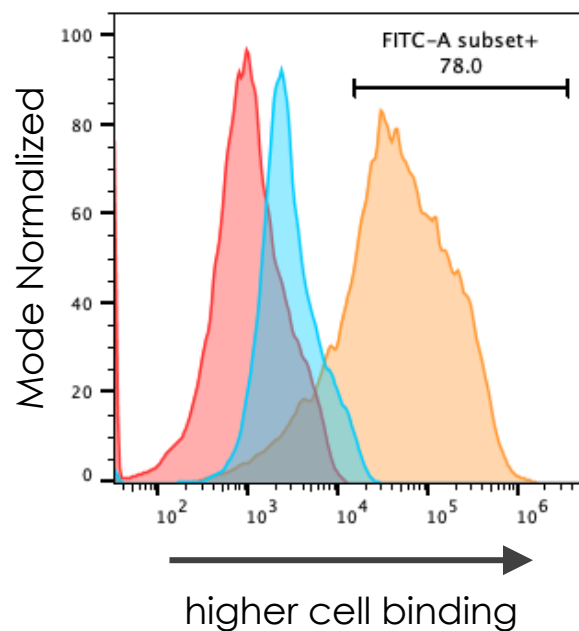


# Top MUC16 Clone 8G4 Binds OVCAR-3 Cells Comparable to Regeneron Benchmark

Clone ID: 8G4  
top clone

Regeneron  
benchmark

- Unstained
- Secondary Only
- OVCAR-3 Cells





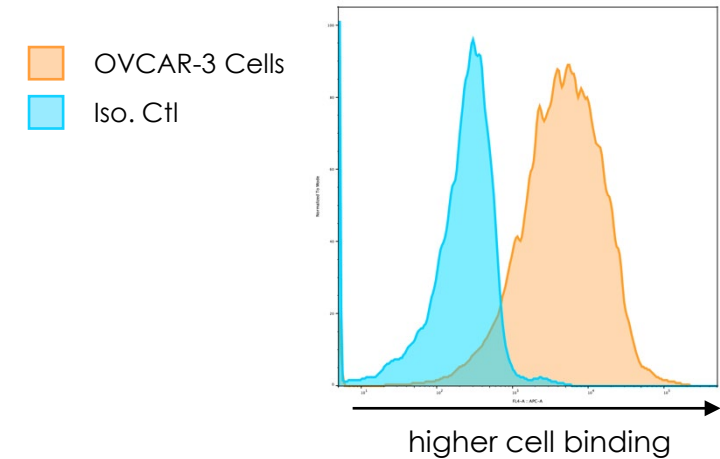
# 8G4 Clone Maintains OVCAR-3 Cell and MUC16 Epitope Binding in a Fully Human Framework

8G4 with fully human framework reduces immunogenicity risk

Glycosylated MUC16 membrane-proximal epitope SPR:

$K_D = 5.1 \text{ nM}$

Cell binding



Epitope binding

