

#### **Notices and Disclaimers**

This presentation has been prepared for use by Affini-T Therapeutics, Inc. ("we," "us" or "our"). This presentation is for informational purposes only and may not be reproduced or redistributed, in whole or in part, without our express written consent. We do not make any representation or warranty as to the accuracy or completeness of the information contained in this presentation.

This presentation contains statements regarding our pipeline products. All Affini-T pipeline products are investigational agents and their safety and efficacy have not been established by any regulatory authority or otherwise. There is no guarantee that they will be approved for commercial use or will become commercially available.

This presentation contains forward-looking statements that involve substantial risks and uncertainties. All statements, other than statements of historical facts, contained in this presentation, including statements regarding our operations and financial position, business strategy, product candidate development, research and development activities and costs, timing and likelihood of success of our business plans, plans and objectives of management, future results and timing of clinical trials, plans for regulatory submissions, treatment potential of our product candidates, and the market potential of our product candidates, are forward-looking statements. These statements involve known and unknown risks, uncertainties and other important factors that may cause our actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by the forward-looking statements. The words "anticipate," "believe," "estimate," "expect," "intend," "may," "might," "plan," "predict," "project," "target," "potential," "will," "would," "could," "should," "continue," and similar expressions are intended to identify forward-looking statements, although not all forward-looking statements contain these identifying words. We may not actually achieve the plans, intentions or expectations disclosed in our forward-looking statements, and you should not place undue reliance on our forward-looking statements. Actual results or events could differ materially from the plans, intentions and expectations disclosed in the forward-looking statements we make. The forward-looking statements contained in this presentation reflect our current views with respect to future events, and we assume no obligation to update any forward-looking statements except as may be required by applicable law.

This presentation also includes statistical and other industry and market data that we obtained from industry publications and research, surveys and studies conducted by third parties as well as our own estimates of potential market opportunities. All of the market data used in this presentation involves a number of assumptions and limitations, and you are cautioned not to give undue weight to such data. Industry publications and third party research, surveys and studies generally indicate that their information has been obtained from sources believed to be reliable, although they do not guarantee the accuracy or completeness of such information. Our estimates of the potential market opportunities for our product candidates include several key assumptions based on our industry knowledge, industry publications, third-party research and other surveys, which may be based on a small sample size and may fail to accurately reflect market opportunities. While we believe that our internal assumptions are reasonable, no independent source has verified such assumptions.

Unless otherwise indicated, all copyrights and trademarks used in this presentation are the property of their respective owners.

affini 🕦



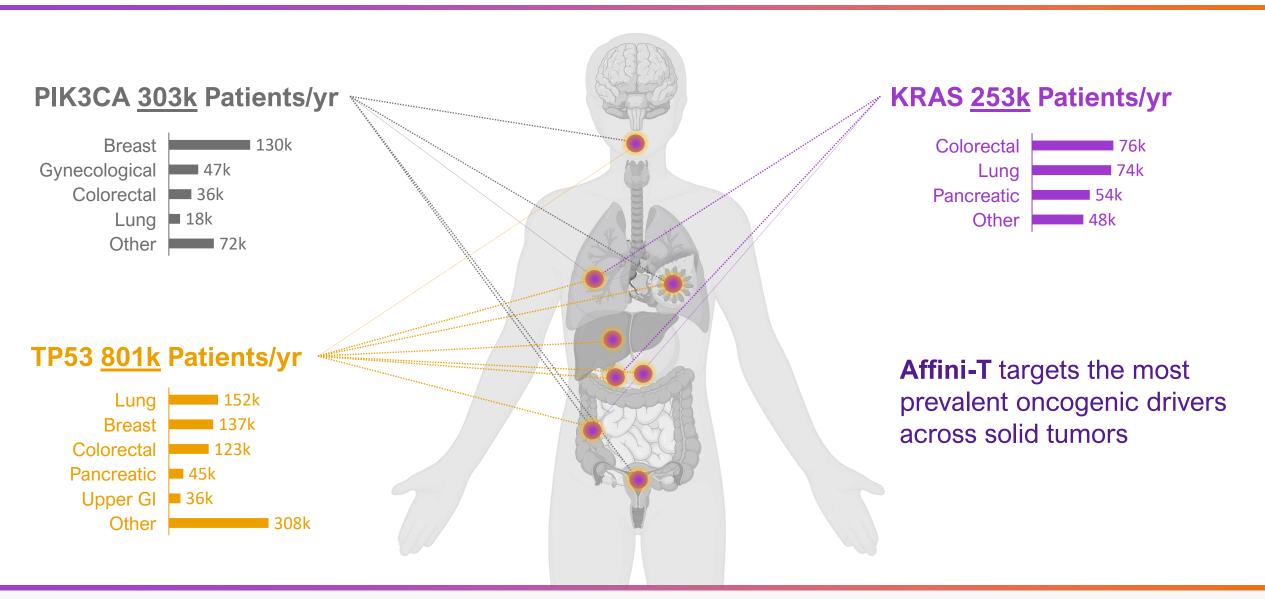
# RIGHT TARGETS. RIGHT CELLS. RIGHT PLACE.

We target oncogenic driver mutations to deliver transformative therapies for patients with solid tumors

- Leader in Precision Immunotherapy developing a deep pipeline of TCR-based therapies that have first-in-class / best-in-class potential
- Focus on targeting the most frequent oncogenic driver mutations in solid tumors; including KRAS, NRAS, P53, and PIK3CA
- Proprietary platform technologies to build potent and persistent T cell therapies and generate bispecific T cell Engagers
- Science-driven team and founders focused on continued innovation to develop novel therapies with curative potential



# Driver Mutations are Ubiquitous but Underutilized Targets for Treating Solid Tumors





# Targeting Oncogenic Driver Mutations Like KRAS Strikes at the Core of Tumor Biology



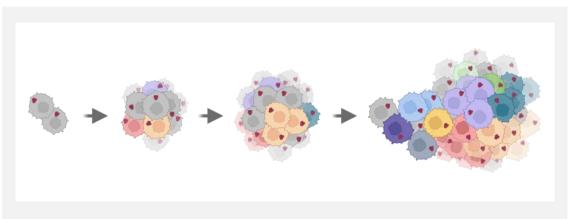
Cancer cells are <u>dependent</u> on oncogenic drivers for survival and proliferation



Oncogenic drivers are ubiquitously expressed in otherwise heterogeneous tumors



KRAS mutations are present in up to 30% of solid tumor malignancies

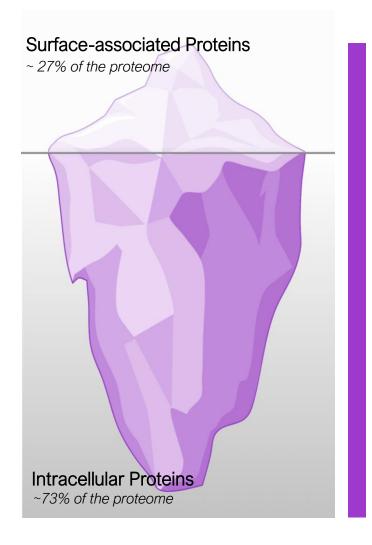


Solid tumors are heterogenous, but oncogenic driver mutations are conserved

Targeting KRAS has been clinically de-risked by approved G12C therapies, but depth and duration of response fall short and unmet need remains high



# TCRs Enable Targeting of Intracellular & Hard-to-Drug Oncogenic Drivers



Conventional CAR cellular therapies & ADCs are limited to targeting surface proteins

TCR-based therapies enable precise targeting of intracellular proteins presented as epitopes on the cell surface

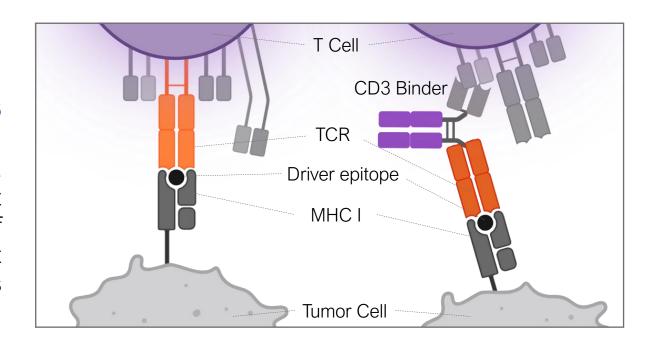
This allows direct targeting of hard-to-drug oncogenic drivers

Klebanoff & Chandran: Immunological Reviews, Volume: 290, Issue: 1, Pages: 127-147, First published: 29 July 2019, DOI: (10.1111/imr.12772)

# **Affini-T** is Developing Two TCR-Based Therapeutic Modalities

# TCR-T Cell Therapies

T cells engineered with a transgenic TCR that allows recognition of specific driver mutant epitopes



# Bispecific T Cell Engagers

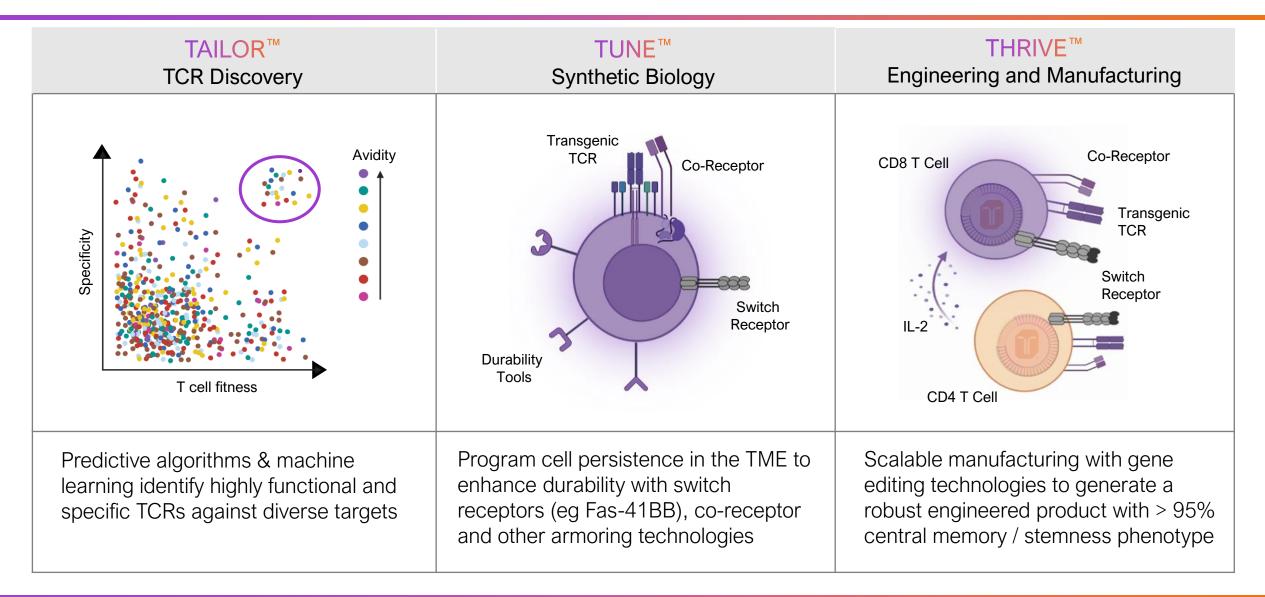
Bispecific biologics combining a TCR moiety to recognize the driver mutant epitope with a CD3 binding moiety to recruit endogenous T Cells



# First-In-Class Potential for Multiple Products Targeting Oncogenic Drivers in Solid Tumors

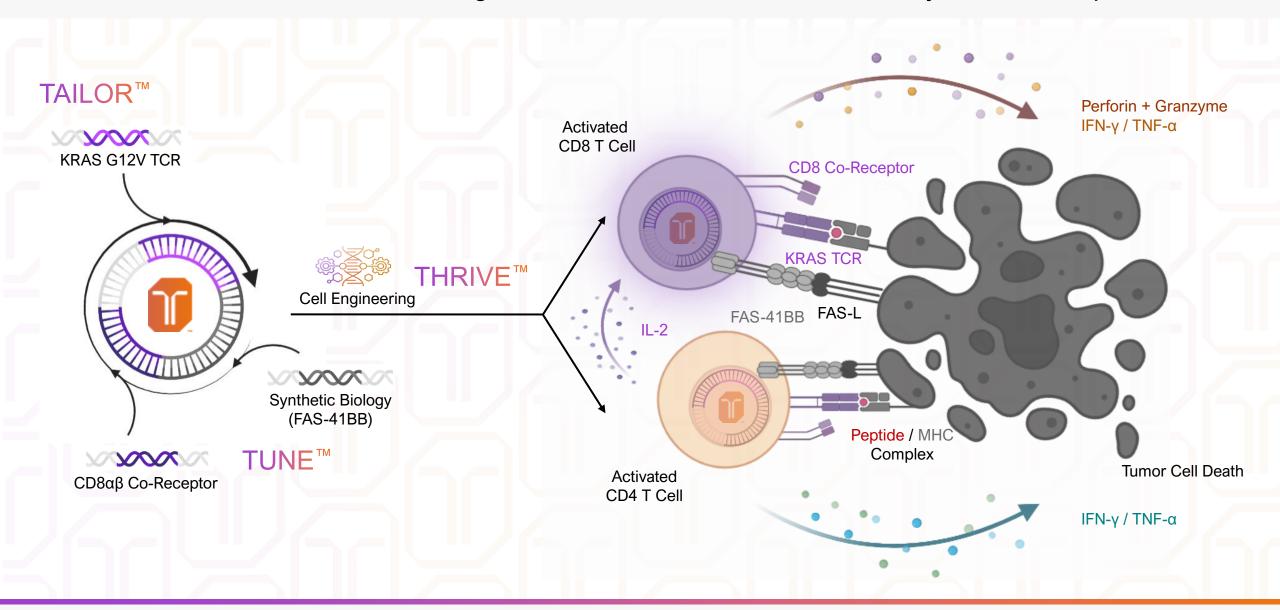
Target	Program	Affini-T Platfo	rm Technology	Discovery	Preclinical	Phase 1
Autologous TCR-T  KRAS G12V	AFNT-211  AFNT-212	FAS-41BB	THRIVE™ Lentiviral	HLA-A11 HLA-A2 HLA-A3 HLA-A11		NCT06043713 NCT06105021 *IND Submission 2024
KRAS G12D KRAS G12C NRAS Q61R/		TUNE™ Syn Bio	THRIVE™ Non-Viral	HLA-B07 HLA-A3 Multiple HLA-A1		
P53 R175H PIK3CA				HLA-A2 Multiple		*IND Submission 2025
T Cell Engager KRAS G12V		<b>→</b> TETUED™		HLA-A2		
P53 R175H Undisclosed	P53 R175H Undisclosed		TETHER™ T-Cell Engager			

# Affini-T Platform Technologies Enable the Generation of Potent & Tolerable TCR-T Cells



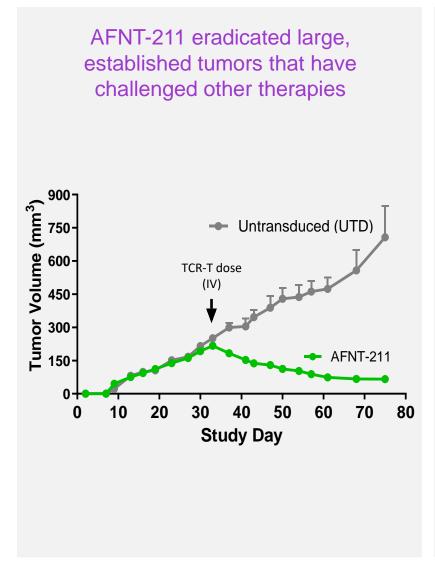


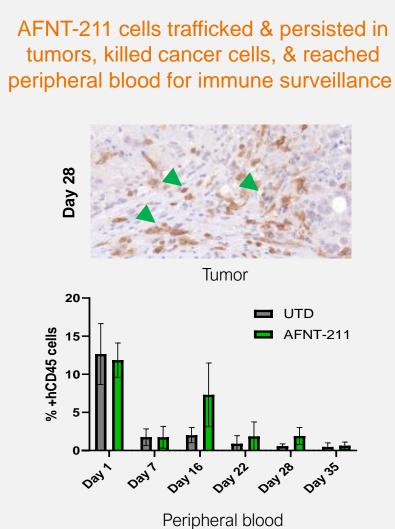
# **AFNT-211:** A11 KRAS G12V TCR Engineered T Cells + FAS-41BB Durability Switch Receptor

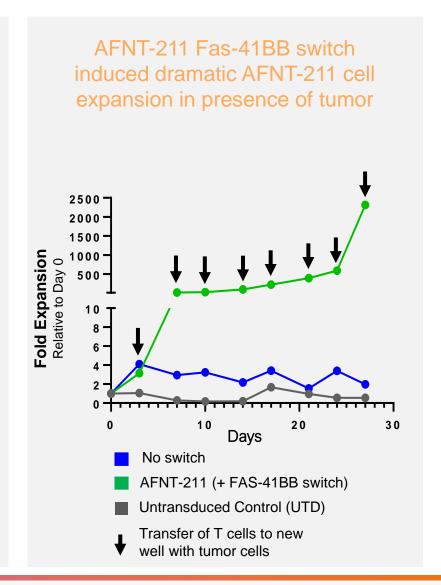




# **AFNT-211** Differentiated Switch Receptor Armoring Drove Antitumor Activity in Preclinical Models









# **AFNT-211** Clinical Development Plan

#### Phase 1a Basket Trial Dose Finding

Sample size N=15-20 ~10 US clinical trial sites

#### Phase 1b/2 Expansion Cohorts

Sample size up to N=20 per indication

#### Registration Study

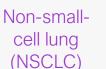
Expand trial sites to 35-40 in US/EU5/CAN

#### KRAS G12V-mutated tumors & HLA-A\*11:01 allele









Colorectal (CRC)

**Pancreatic** (PDAC)



NSCLC → 2<sup>nd</sup>/3<sup>rd</sup> line

CRC  $\rightarrow$  2<sup>nd</sup>/3<sup>rd</sup> line

PDAC  $\rightarrow$  2<sup>nd</sup>/3<sup>rd</sup> line

Tissue-agnostic  $\rightarrow$  2<sup>nd</sup>/3<sup>rd</sup> line

- Continued FDA interactions. for single arm study design
- Aim for approval based on ORR & DoR data
- Target sample size N=~80 for potential indication

Optimal Biological Dose / Proof of Clinical Concept

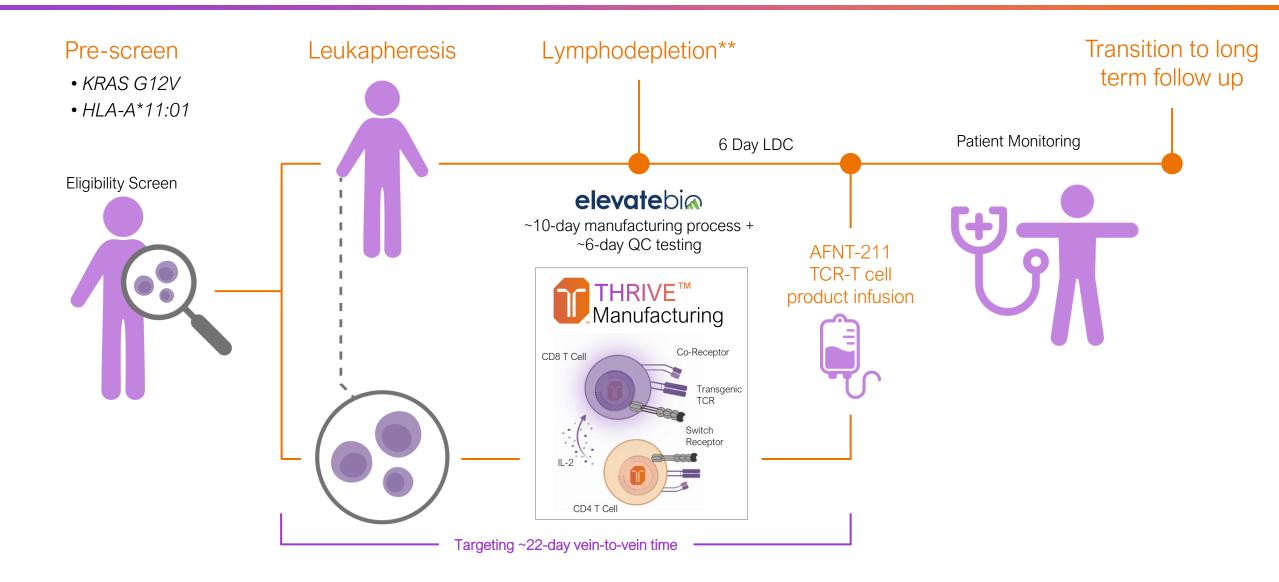
Interim Analysis

ORR & DoR

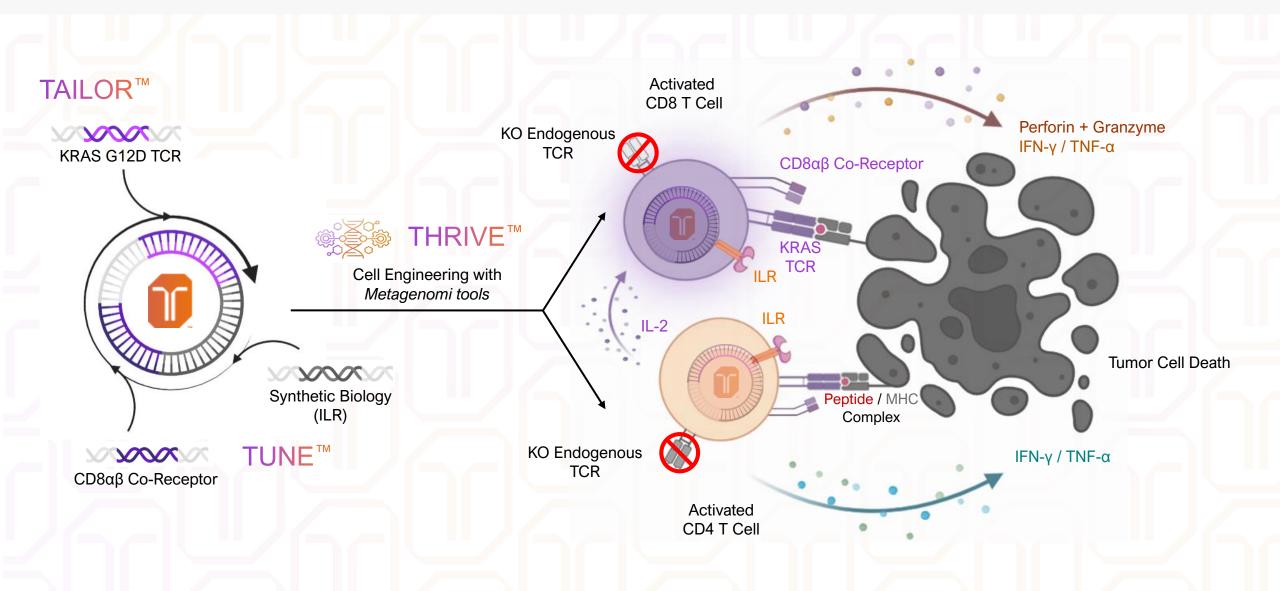
\*Excluding primary brain tumors



# **AFNT-211** Patient Journey

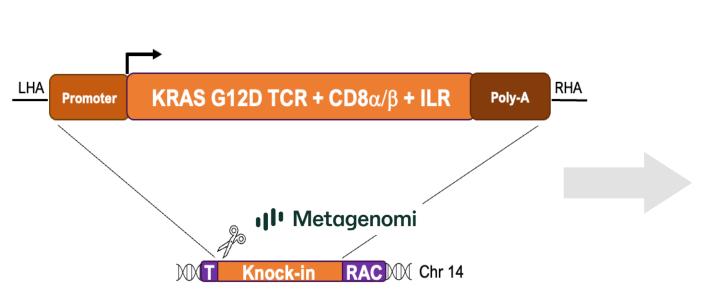


### AFNT-212: A11 KRAS G12D TCR Engineered T Cells + Durability Switch Receptor + Gene Editing



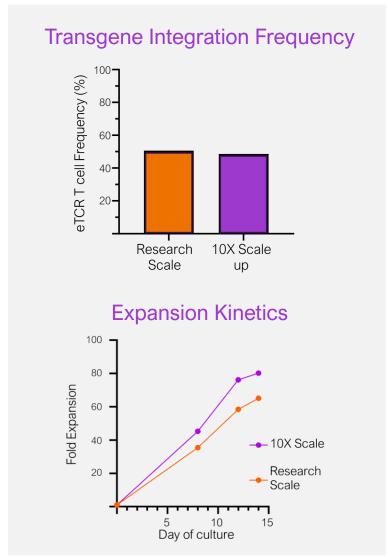


# **THRIVE™** High Efficiency Non-viral Delivery of Large Transgenes at cGMP Scale

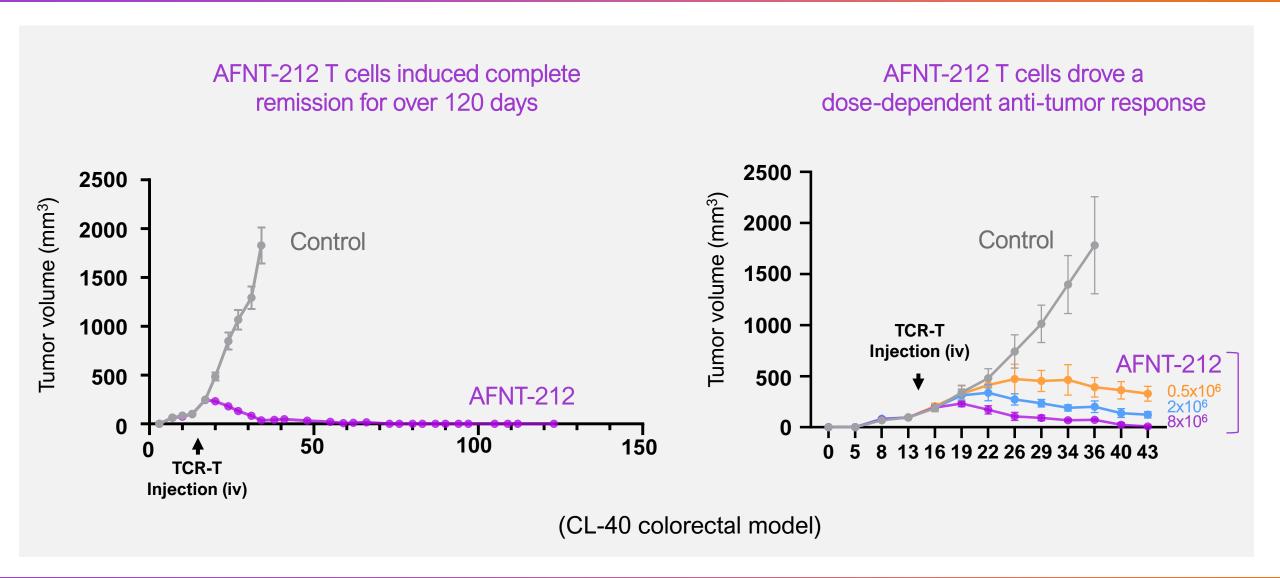


Transgenes inserted within the endogenous TRAC gene via CRISPR/Cas driven homology mediated repair

TRAC-inserted knock-in of 6.3kb 5 gene cassette



#### AFNT-212 Showed Robust Anti-tumor Activity in Established Tumor Mouse Models in vivo

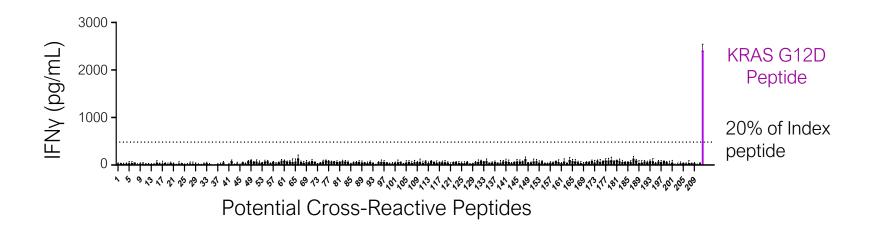




# **AFNT-212** Exhibited Low Risk of Cross-Reactivity

#### Validation of Putative Cross-Reactive Peptides

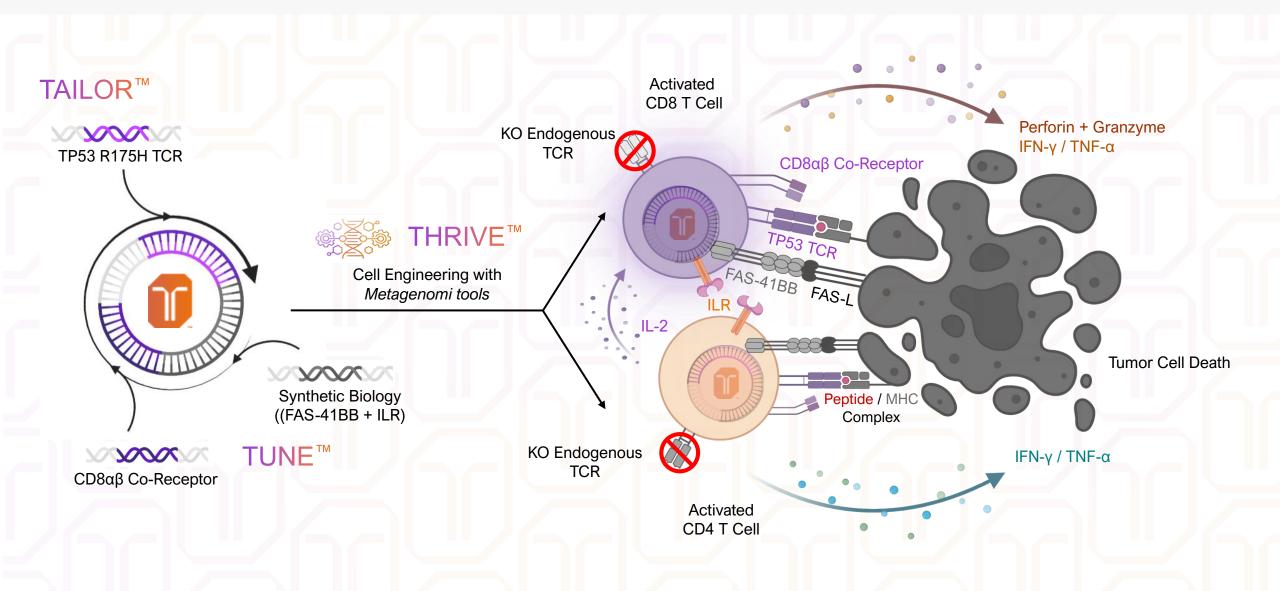
Potential Cross-Reactive Peptides Identified by X-Scan	Validated Cross-Reactive Peptides
211	0



No cross-reactive self-peptides of concern identified out of 211 potential peptides identified by X-Scan

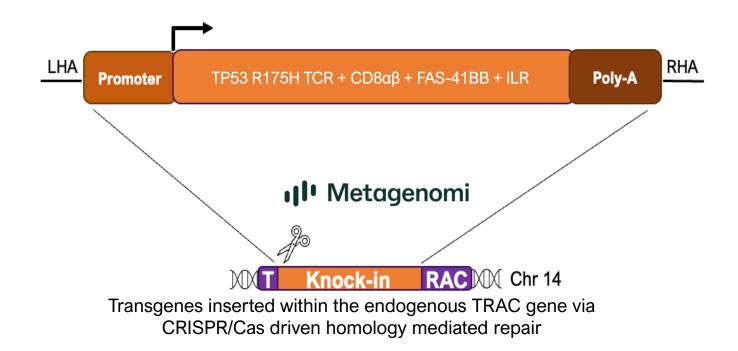


# A2 TP53 R175H TCR Engineered T Cells + 2 Durability Switch Receptors + Gene Editing



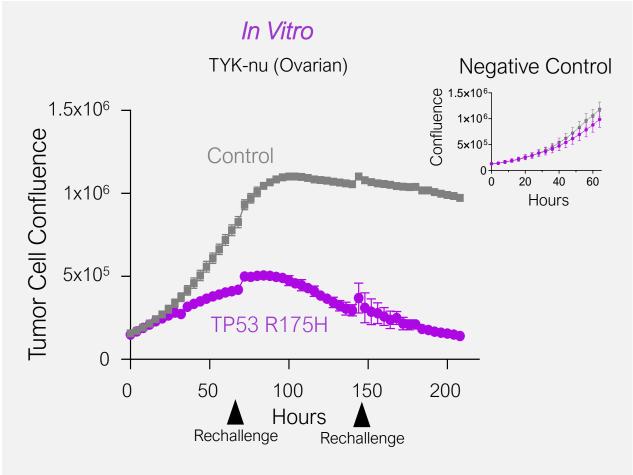


# THRIVE™ High Efficiency Non-viral Delivery of Large Transgenes at cGMP Scale

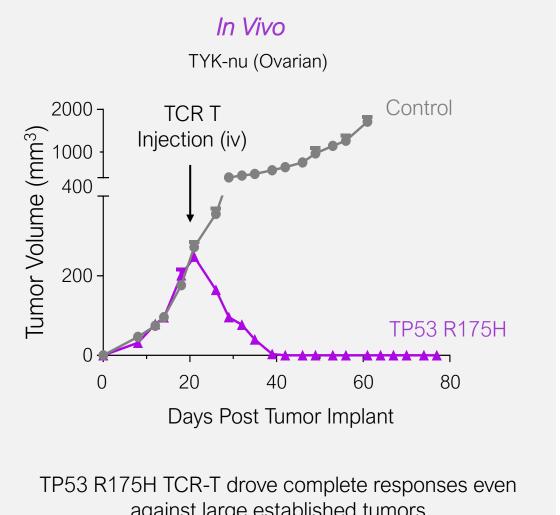


TRAC-inserted knock-in of 7 kb 6 gene cassette

#### A2 TP53 R175H TCR-T Showed Robust Preclinical Tumor Cell Control In Vitro and In Vivo



TP53 R175H TCR-T cells controlled tumor proliferation even following multiple re-challenges



against large established tumors





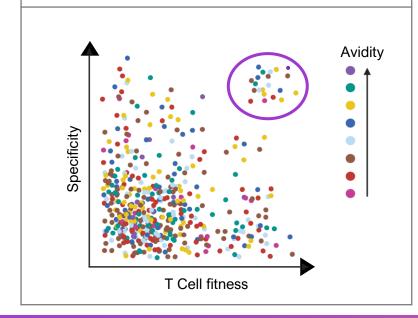
# **TETHER™** T cell engager Highlights



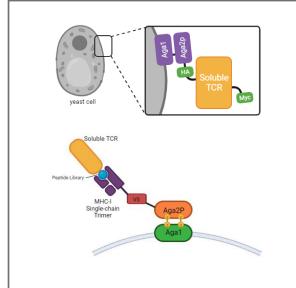
#### Affini-T Platform Technologies Enable the Generation of Highly Specific & Active T Cell Engagers

TAILOR™
TCR Discovery

- High throughput screening, predictive algorithms, and machine learning
- Generate highly functional and tolerable TCRs against diverse targets



2 Affinity Maturation

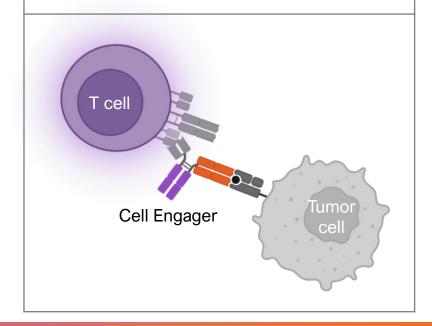


#### **Yeast Display Modalities**

- Libraries to identify high affinity TCRs
- Libraries for specificity screenings

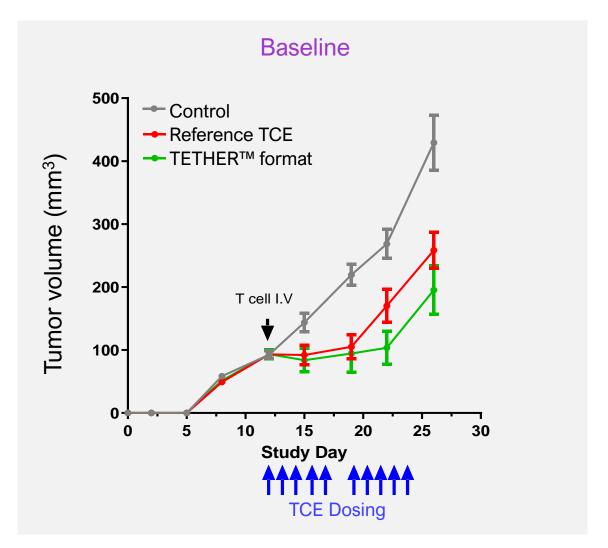
TETHER™ T Cell Engagers

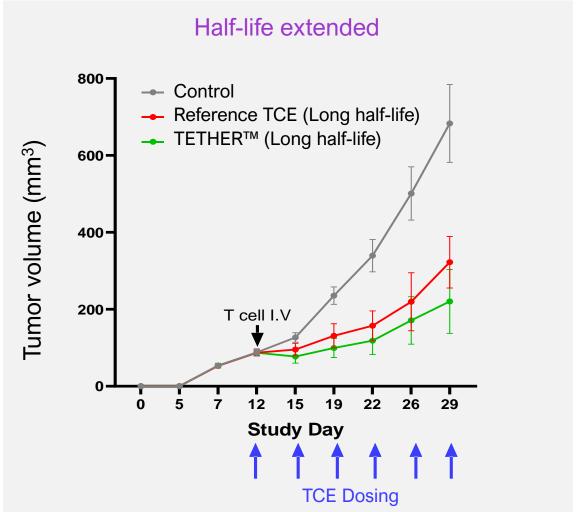
- Affinity matured TAILOR™ TCRs with high specificity and affinity
- Balanced CD3 binders for optimal T cell engagement
- Bispecific T cell engager format with long half-life





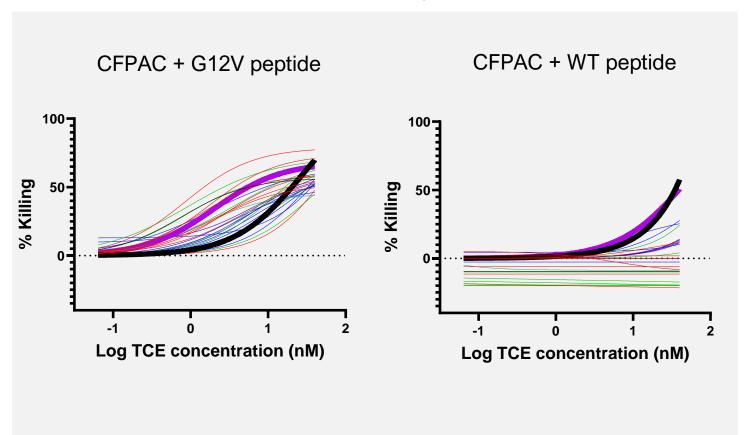
# **TETHER™** T Cell Engagers Outperformed Reference Product Format *in vivo*



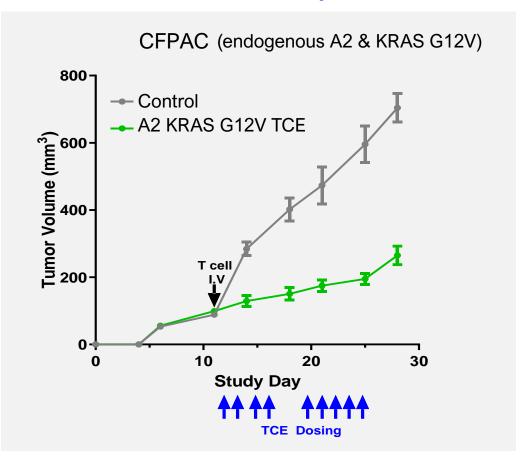




#### *In vitro* activity



#### In vivo activity



# Experienced Management Team Supported by Blue-Chip Investor Syndicate

Executive Leadership



Jak Knowles, MD Co-Founder and CEO







Kathy Bergsteinsson, MBA Chief Financial Officer

Morgan Stanley



Dirk Nagorsen, MD Chief Medical Officer





Kim Nguyen, PhD Chief Technical Officer





Loïc Vincent, PhD Chief Scientific Officer





Kathy Yi, MBA Chief Operating Officer



Board of **Directors** 



Jak Knowles, MD Affini-T Therapeutics





Arjun Goyal, MD Vida Ventures





Lucio lannone, PhD Leaps by Bayer





Mike Varney, PhD Erasca





Dan Faga AnaptysBio





Jill DeSimone Independent



Investors



















# Exceptional Scientific Co-Founders & SAB Specialized in T Cell Biology and Immunology

#### Co-Founders



Phil Greenberg, MD Scientific Co-Founder





Aude Chapuis, MD Scientific Co-Founder







Tom Schmitt, PhD Scientific Co-Founder





Chris Klebanoff, MD Scientific Co-Founder

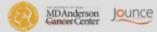




# Scientific **Advisors**

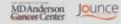


Jim Allison, PhD





Pam Sharma, MD







Rafi Ahmed, PhD



C Scripps













David Kranz, PhD





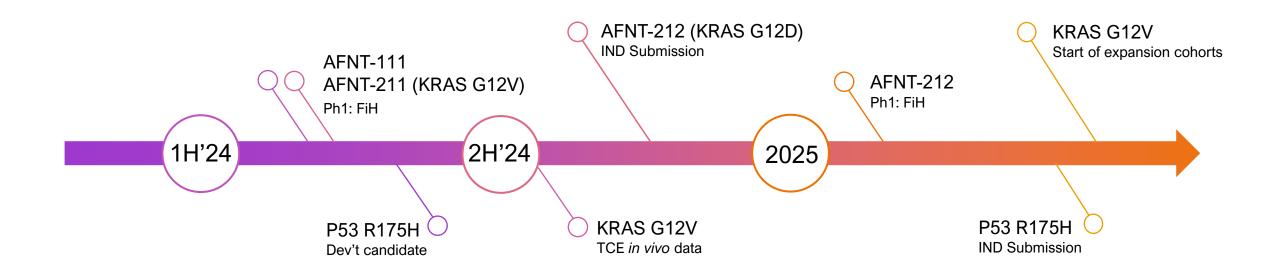


Sue Kaech, PhD





# Current Status & Key Clinical Catalysts



Affini-T is the premier Precision Immunotherapy company targeting oncogenic driver mutations to develop curative therapies for patients with solid tumors

Partnership Opportunities

Strategic Partners

TAILOR<sup>TM</sup>

TCR Library for Oncology + I&I

TUNFTM

SynBio Armoring Technology

**THRIVF**<sup>TM</sup>

**Engineering & Manufacturing** 

**TETHER**<sup>TM</sup>

Bi-specific T Cell Engagers





Memorial Sloan Kettering **Cancer Center** 





elevatebia III Metagenomi ADIMAB



