



DESIGNING A NOVEL CLASS OF GENOMIC MEDICINES FOR GENETIC DISORDERS

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Challenging the status quo of genomic medicines with small molecules (GeneTAC[®] Molecules) that dial up or dial down transcription...

...to treat significant monogenic disorders

BECAUSE WE BELIEVE YOUR FATE DOESN'T
HAVE TO BE WRITTEN IN YOUR GENES

Advancing four GeneTAC[®] molecule programs

	Friedreich Ataxia	FECD	Myotonic Dystrophy 1	Huntington's Disease
Gene	FRATAXIN (FXN)	TCF4	DMPK	HUNTINGTIN (HTT)
Monogenic disease	GAA repeat expansion leads to reduced transcription	CTG repeat expansion causes nuclear foci & corneal endothelial cell dysfunction	CTG repeat expansion causes nuclear foci & cellular dysfunction	CAG repeat expansion leads to toxic mRNA and protein product
Differentiated profile	New drug product DT-216P2 with improved PK and injection site safety profiles observed in nonclinical studies	Allele-selective reduction of mutant transcript (TCF4) DT-168 in an eye drop	Allele-selective reduction of mutant DMPK leads to foci resolution and splicing correction	Allele-selective reduction of mutant HTT
Status	Phase 1 SAD to initiate in 1H 2025	Phase 1 ongoing; data in 1H 2025	Select DC in 2025	Next step: Select DC
Significant market	<ul style="list-style-type: none"> Biogen acquired Skyclarys[®] (REATA) for \$7.3B 	<ul style="list-style-type: none"> 4.6-5.3M US patients with TCF4 repeat expansion Multi-billion \$ oppty 	<ul style="list-style-type: none"> Estimated >70K cases in US Multi-billion \$ oppty 	<ul style="list-style-type: none"> In US, >40,000 symptomatic and 200,000 at-risk Multi-billion \$ oppty

GeneTAC[®] Molecules have several advantages over traditional genomic medicine approaches

	Simple drug delivery	Working with natural genome	Distribute widely	Low burn rate
Gene editing/ gene therapy	✗	✗	✗	✗
Oligo nucleotide	✗	✓	✗	✗
GeneTAC [®] platform	✓	✓	✓	✓

Annual R&D spend

\$130-460M¹

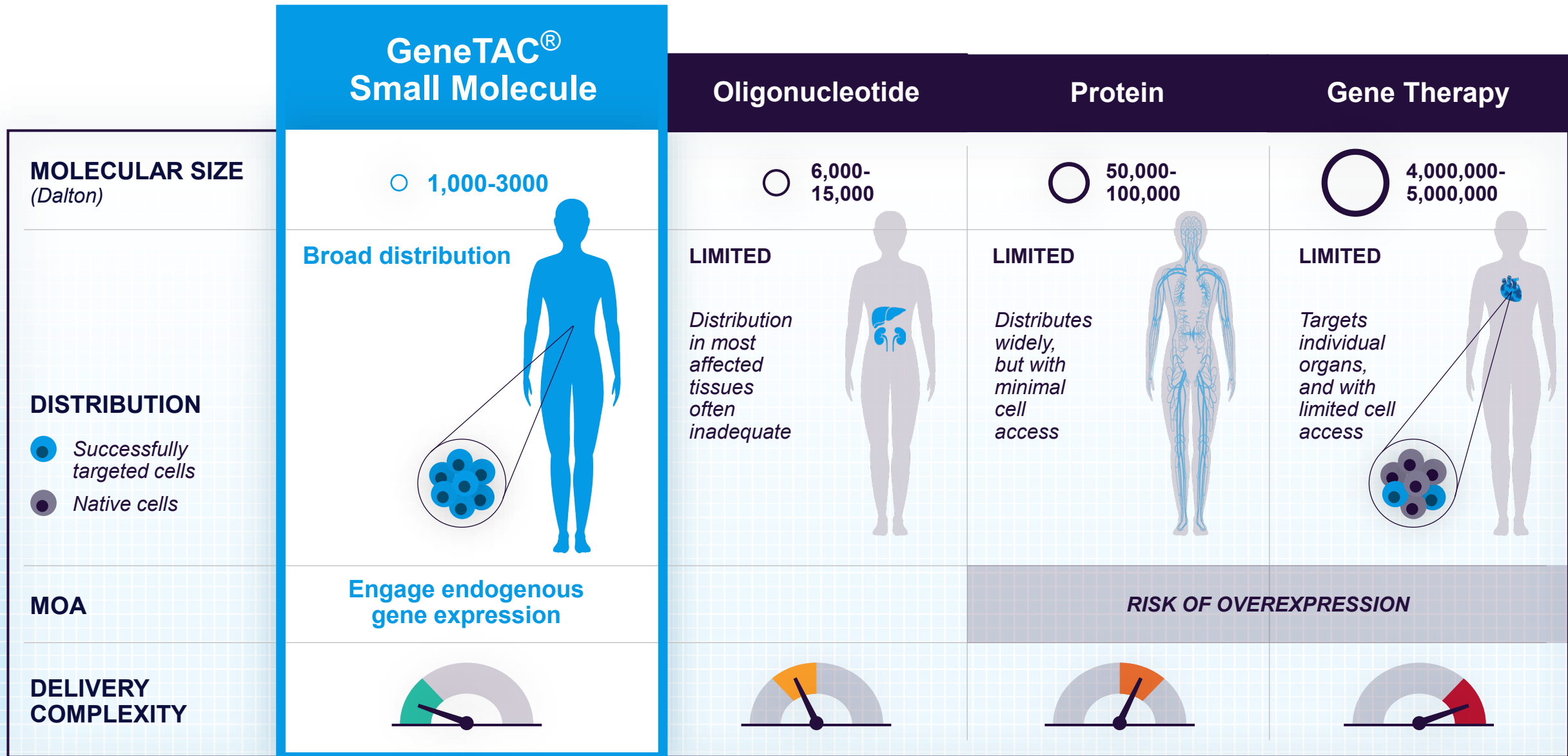
\$50-150M¹

\$60 - 80M²

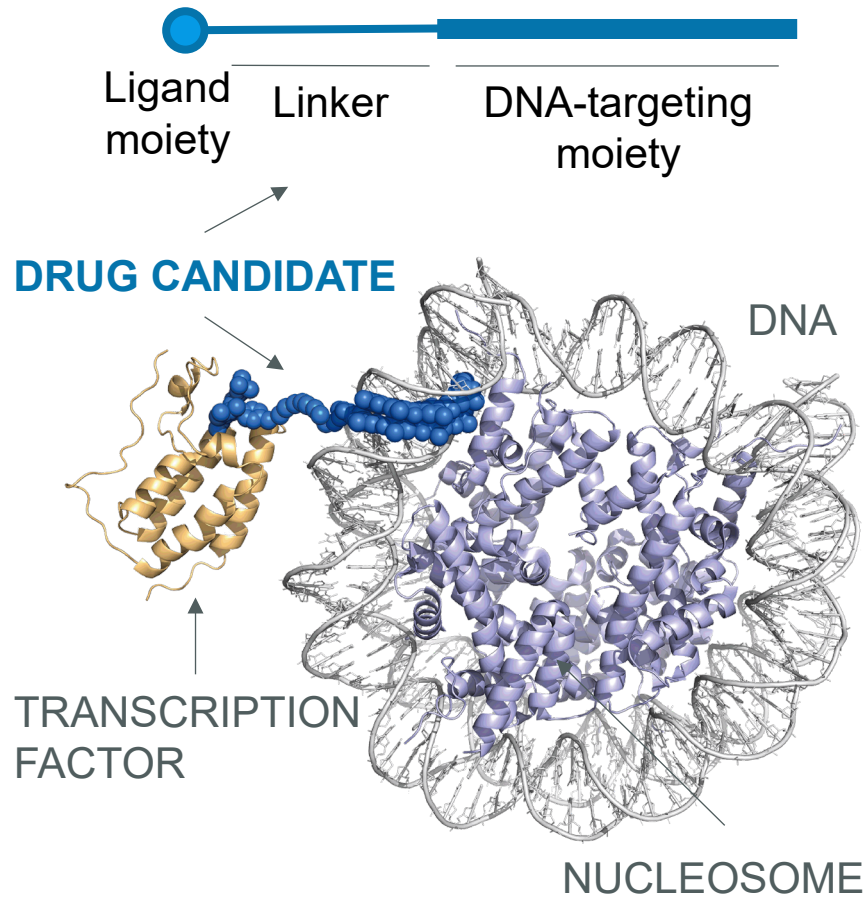
1. Estimates derived from analysis of R&D spend of select peers in 2022. Gene therapy/gene editing peers included in the analysis: Beam Therapeutics, Crispr Therapeutics, Editas Medicine, Intellia Therapeutics, Sangamo Therapeutics, Verve Therapeutics, Bluebird Bio. Oligonucleotide peers included in the analysis: Avidity Biosciences, Dyne Therapeutics, Entrada Therapeutics, PepGen.

2. Based on analyst consensus forecast for 2024 - 2027

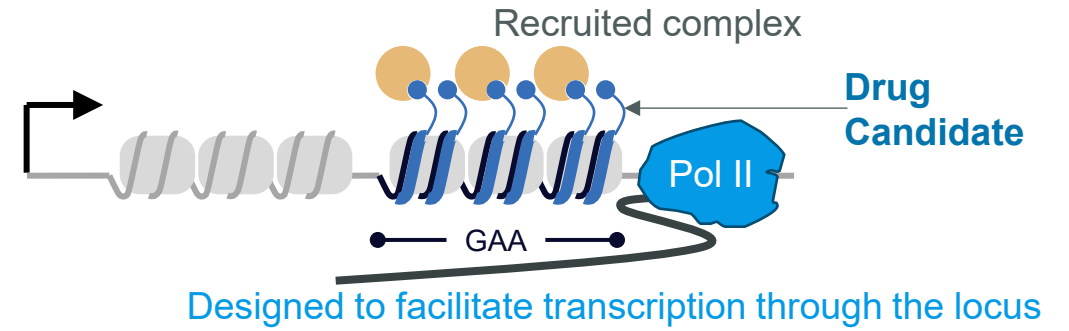
GeneTAC[®] Molecules can distribute widely overcoming a central challenge for traditional genomic medicines



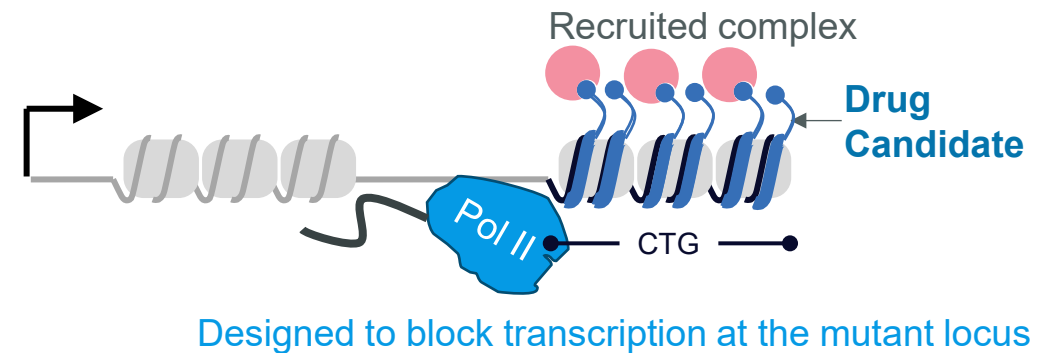
Differentiated mode of action of GeneTAC[®] molecules



DIAL UP EXPRESSION



DIAL DOWN EXPRESSION

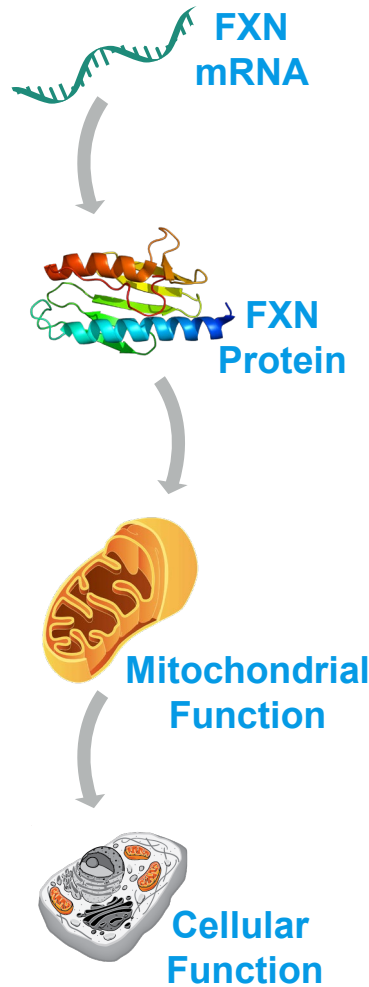


DT-216P2 for Friedreich Ataxia

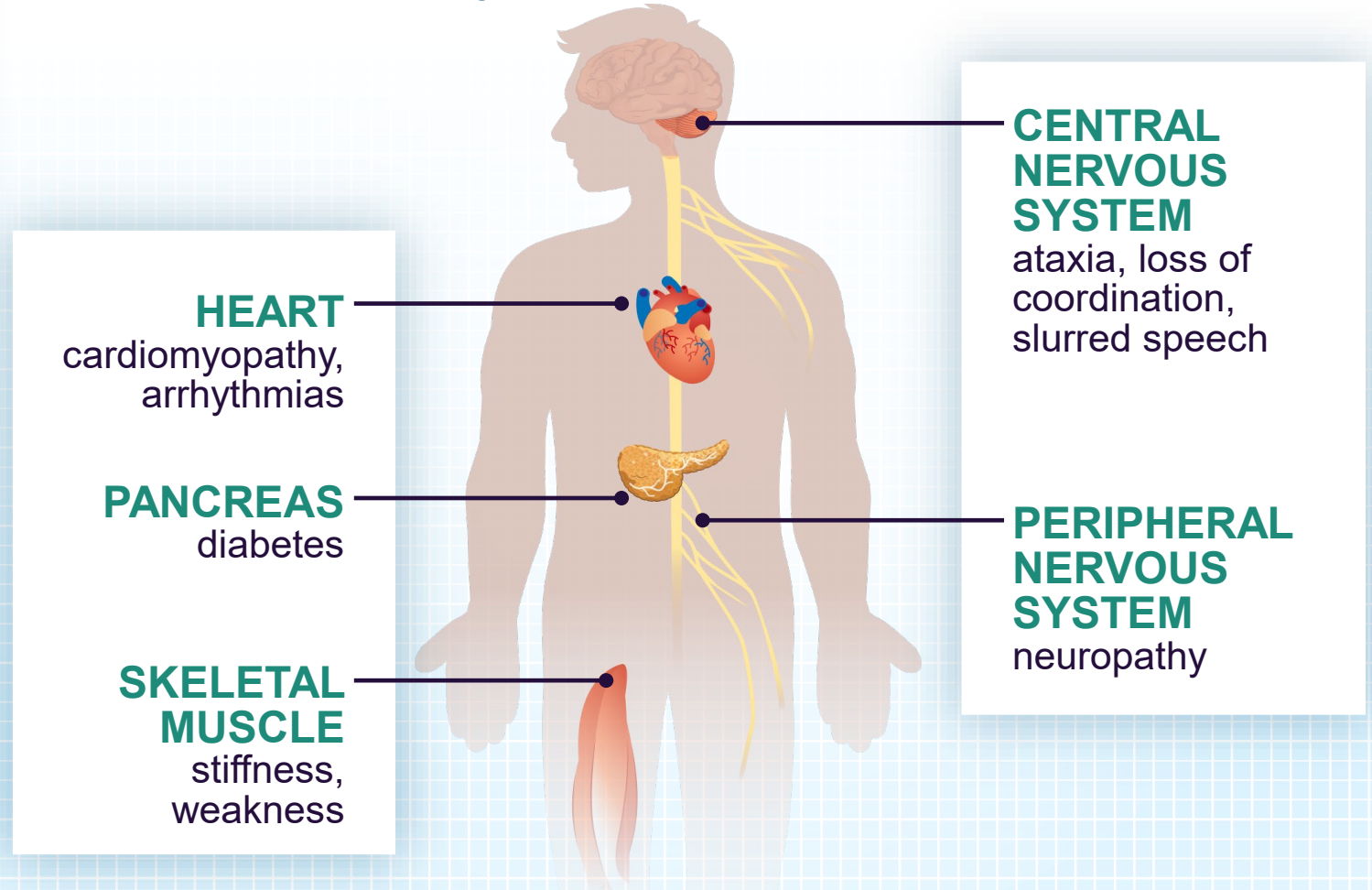
FA: Debilitating disease with limited treatment options today

Monogenic disease caused by GAA-repeat expansion in 1st intron of frataxin (FXN) gene

Mutation leads to reduced FXN transcription, which is necessary for mitochondrial and cellular function



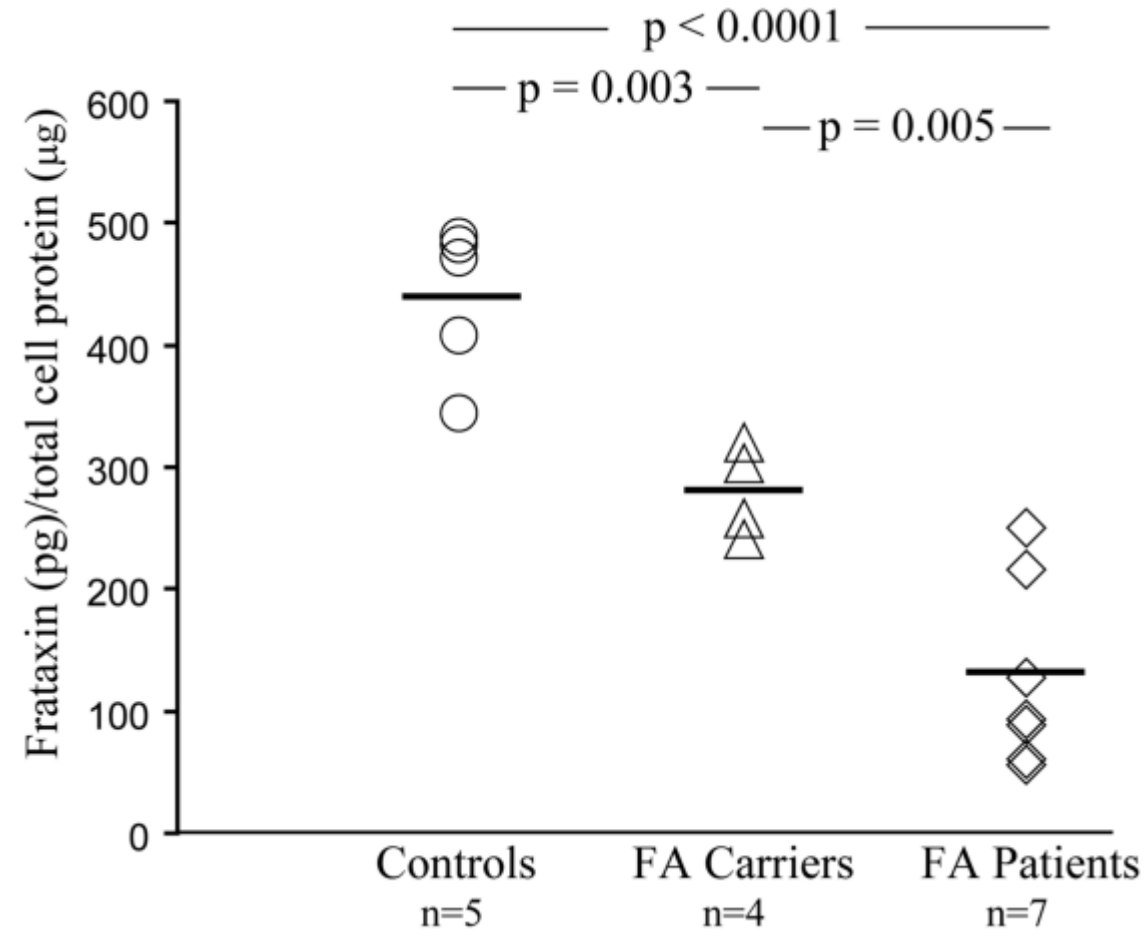
Multi-organ dysfunction: muscle, central and peripheral nervous systems, heart, and pancreas



Therapeutic goal: increase FXN

- FA patients, carriers and controls have different average FXN protein levels
- Carriers are free of FA symptoms
- ~2X increase of FXN protein could potentially bring patients' levels into asymptomatic carrier range

FXN protein level in lymphoblastoid cells

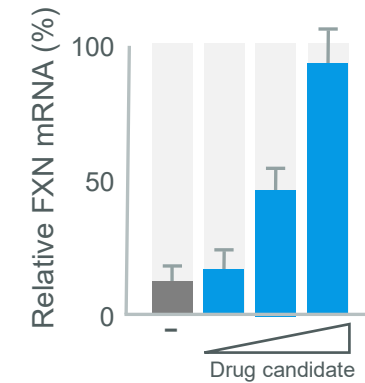


FA GeneTAC[®] molecules normalized FXN levels in FA patient cells but did not alter FXN levels in healthy cells

FA PATIENT (two expanded copies)



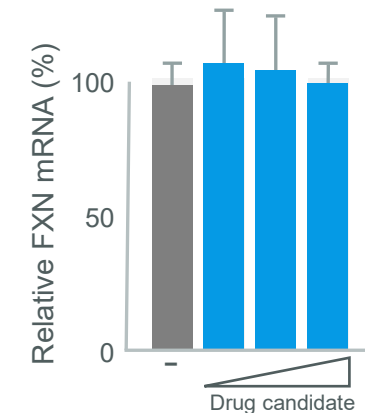
GeneTAC[®] molecules normalized levels¹



HEALTHY INDIVIDUAL (two normal copies)



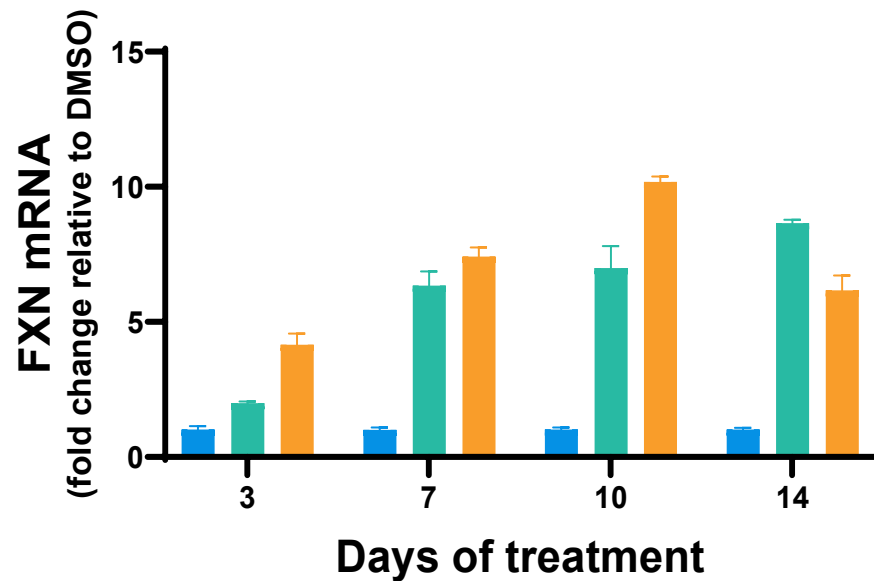
FXN levels unaltered in healthy cells¹



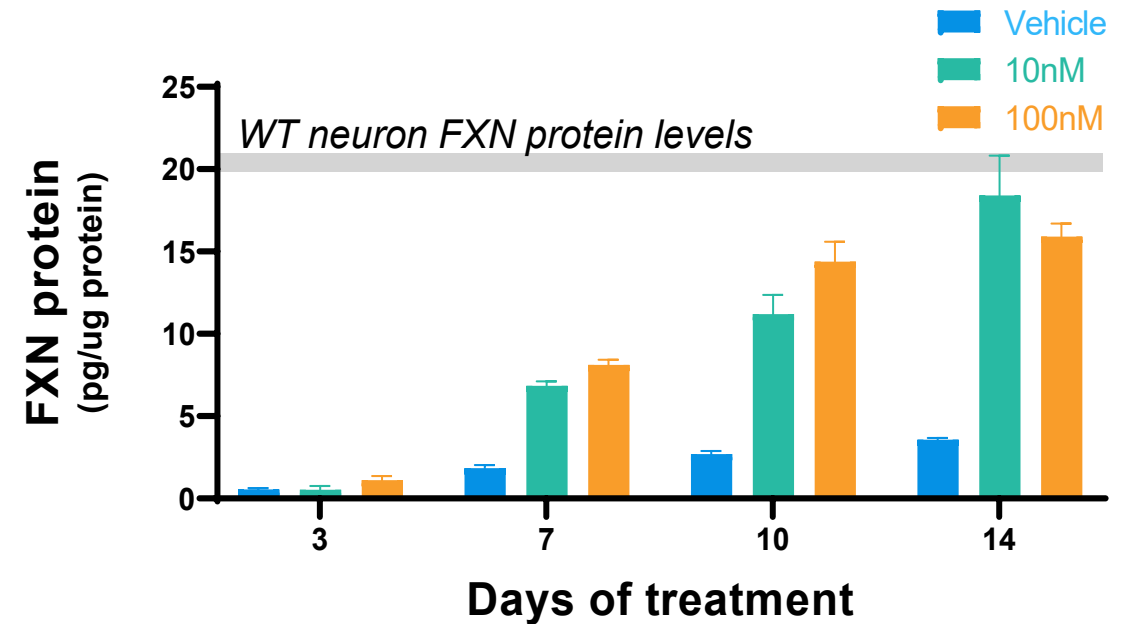
1. Graph x-axis represents increasing levels of cellular exposure to FA GeneTAC[®] molecules. Bars represent standard error of the mean.

Low concentrations of DT-216 molecule restored endogenous FXN levels in FA patient iPS-neurons

FXN mRNA



FXN Protein



Phase 1 trial with prior DT-216 drug product in FA patients

- Primary and secondary objectives: evaluate safety, tolerability and pharmacokinetics (PK)
- Exploratory objective: evaluate FXN gene expression

Study Population

- Age 18 to 55
- Genetically confirmed FA
- Stage ≤ 5.5 (Functional Staging of Ataxia*)
- Without clinically significant concomitant medical conditions

Randomization (DT-216 : Placebo)

Single Ascending Dose (SAD)

600mg IV x 1

400mg IV x 1

Injection site thrombophlebitis observed at 400 and 600mg doses

200mg IV x 1

100mg IV x 1

50mg IV x 1

25mg IV x 1

Placebo IV x 1

Multiple Ascending Dose (MAD)

Selection of MAD doses was based upon anticipated:

- Tissue exposures in therapeutic range at 200-300mg dose levels
- Injection site tolerability

300mg IV weekly x 3

200mg IV weekly x 3

100mg IV weekly x 3

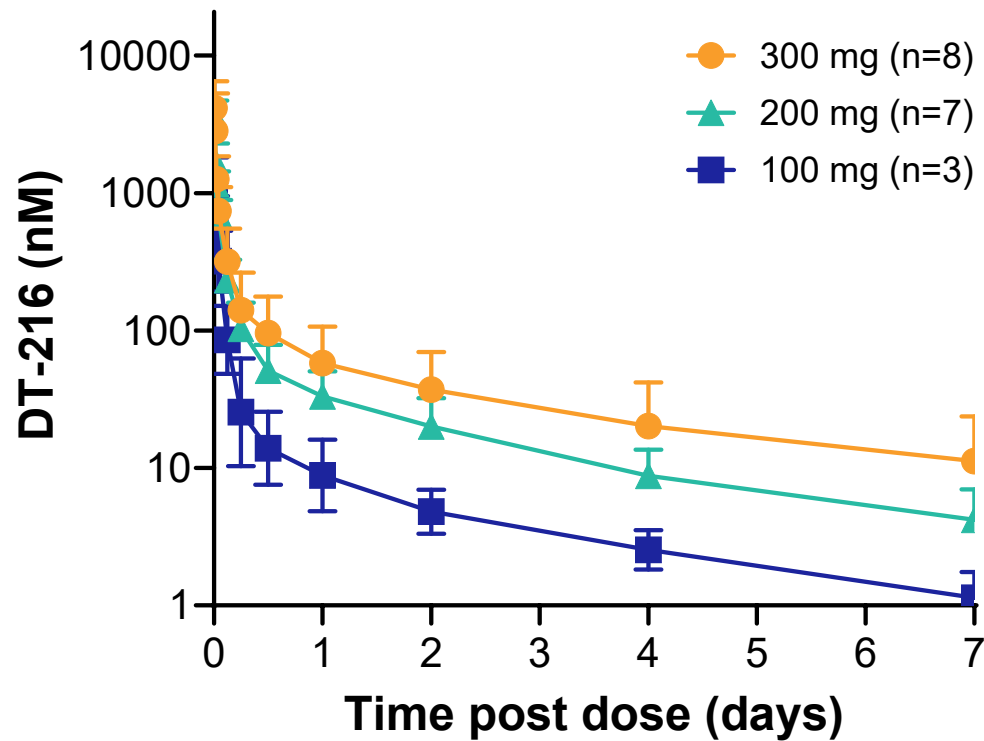
Placebo IV weekly x 3

MUSCLE BIOPSIES

* FSA; from no disability to severe disability (confined but can navigate a wheelchair; can perform some activities of daily living that do not require standing or walking).

Prior DT-216 drug product Phase 1 MAD study revealed plasma PK and tissue distribution are both transient with QW IV dosing

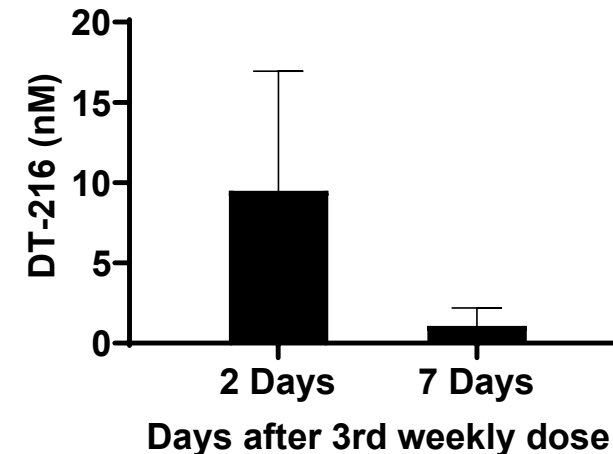
Plasma DT-216 PK after 3rd Dose



Muscle DT-216 PK after 3rd Dose

- Average DT-216 levels in skeletal muscle at both 200mg and 300mg cohorts were ~8-10nM two days after 3rd weekly dose & ~1nM seven days after 3rd weekly dose

■ Combined 200 mg and 300 mg cohort

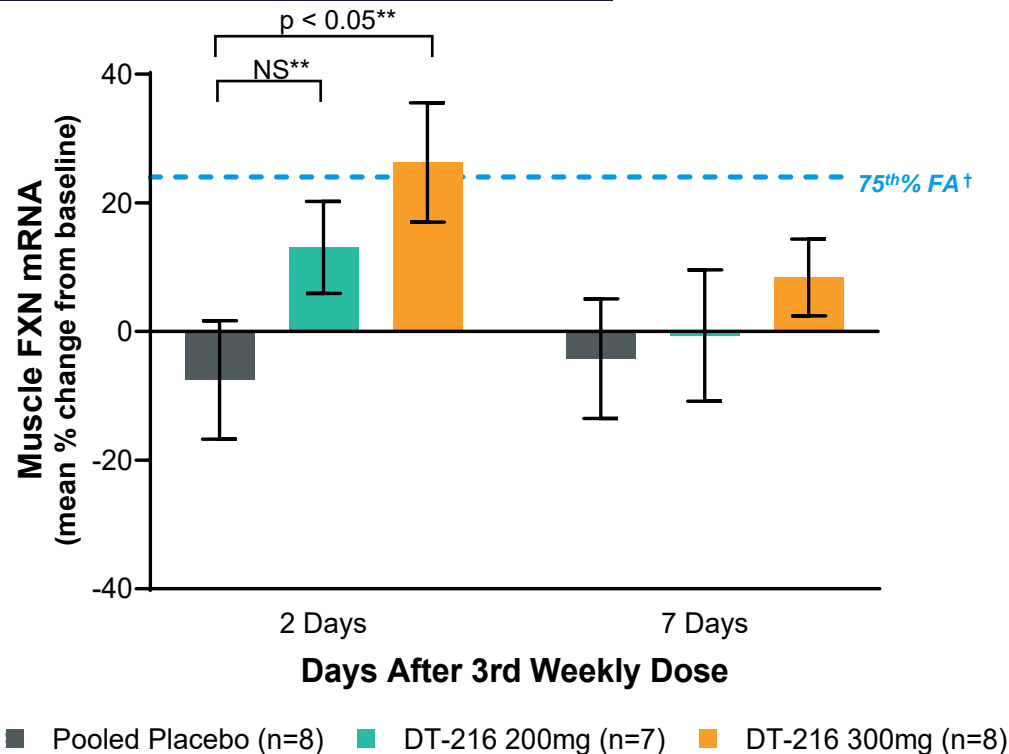


- DT-216 concentrations in muscle were lower than projected based on nonclinical studies in animals

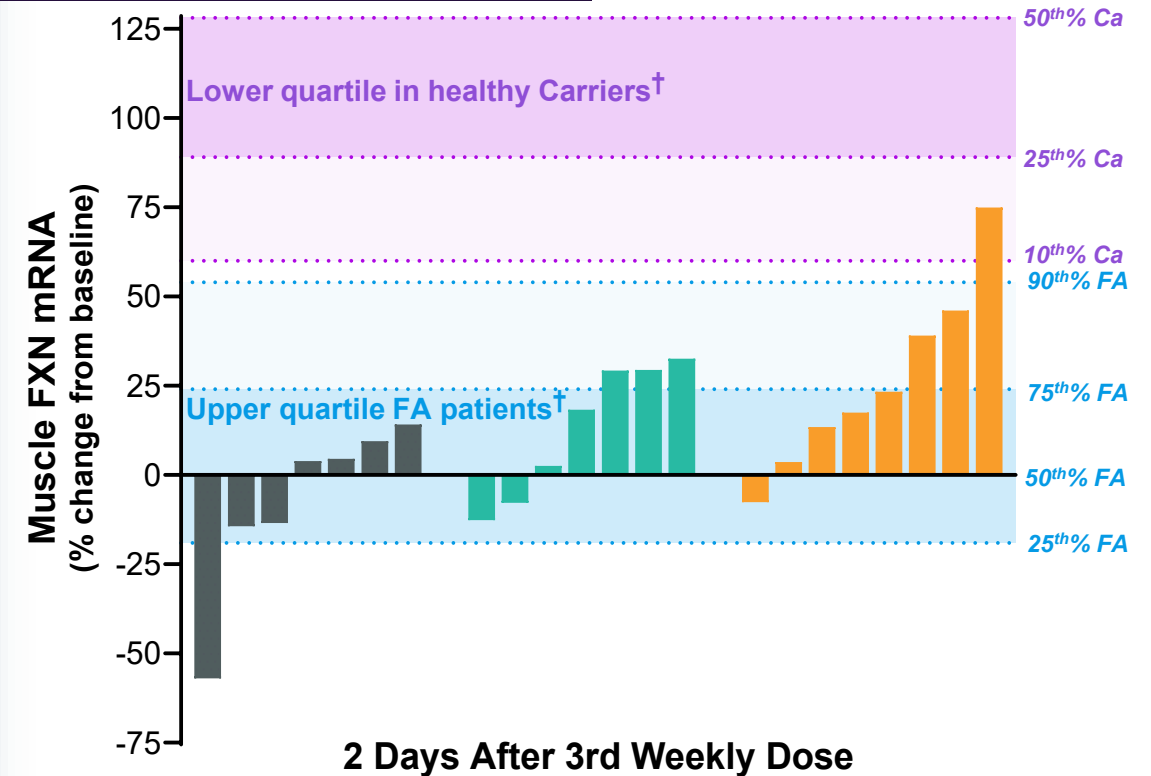
Prior DT-216 drug product Phase 1 MAD study showed FXN expression is dialed up in response to drug exposure in FA Patients

Muscle FXN mRNA response correlated with dose and muscle DT-216 exposure, $p < 0.05^*$

Cohorts: 200mg and 300mg



Individual FA Patients



* Exploratory analyses for dose-response and exposure-response were conducted using a non-parametric trend test and non-parametric correlation test, respectively.

** Exploratory analyses were conducted using a non-parametric Wilcoxon Rank-Sum model. A parametric ANCOVA model gave similar results. Bars represent standard error of the mean. NS, not significant.

† Percentiles and quartiles assume individual FA patient baselines in the MAD study are the median FA patient FXN mRNA value from the observational muscle biopsy study.

Injection site thrombophlebitis issue appears addressed with new drug product DT-216P2

Prior DT-216 drug product Phase 1 MAD safety

- No serious or severe adverse events (AEs) and no treatment-related discontinuations (1 unrelated study withdrawal due to COVID infection)
- 5 AEs of injection site thrombophlebitis on DT-216 arm – 100mg cohort (1 mild); 200mg cohort (3 mild); 300mg cohort (1 moderate), none in placebo group

Nonclinical observations with DT-216P2 compared with prior drug product

- Nonclinical studies showed that injection site reactions were attributable to formulation excipients in prior drug product
- DT-216P2 non-GLP animal studies conducted support conclusion that new drug product formulation potentially addresses injection site issues and is suitable for confirmatory GLP studies
- DT-216P2 appears suitable for IV administration (compatible with injections or infusions, peripheral or central with port systems for chronic dosing) or subcutaneous injections or infusions

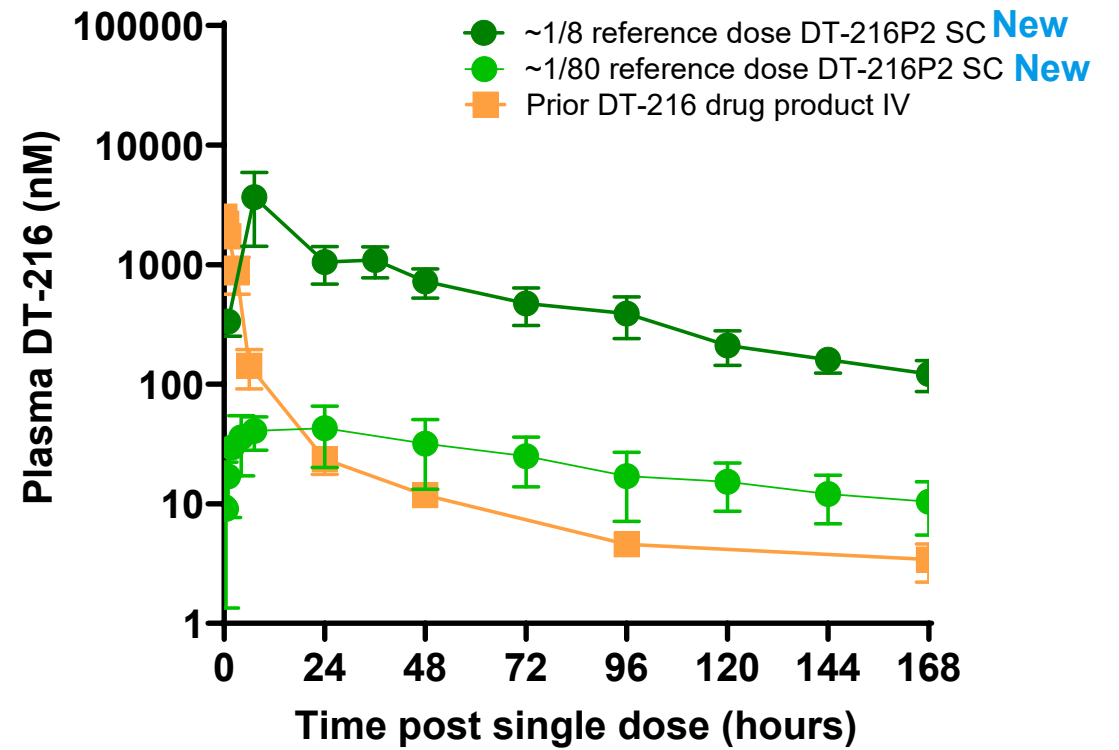
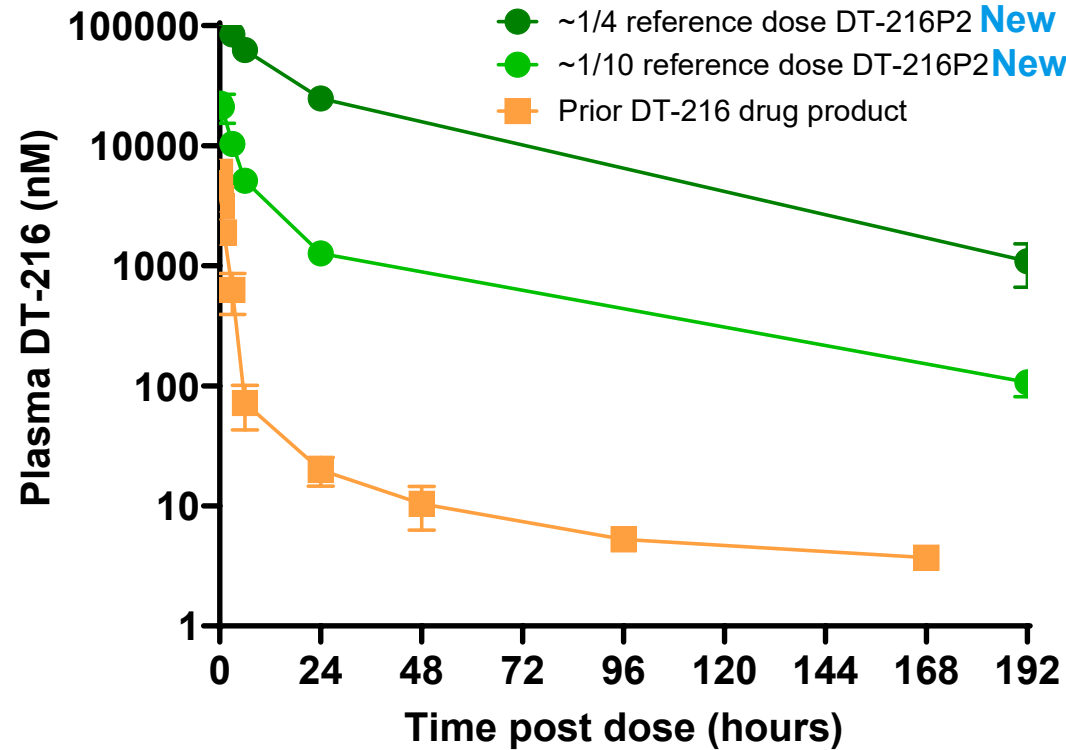
DT-216P2 demonstrates superior product profile in NHPs using a proprietary and novel excipient



NHP

Intravenous

Subcutaneous



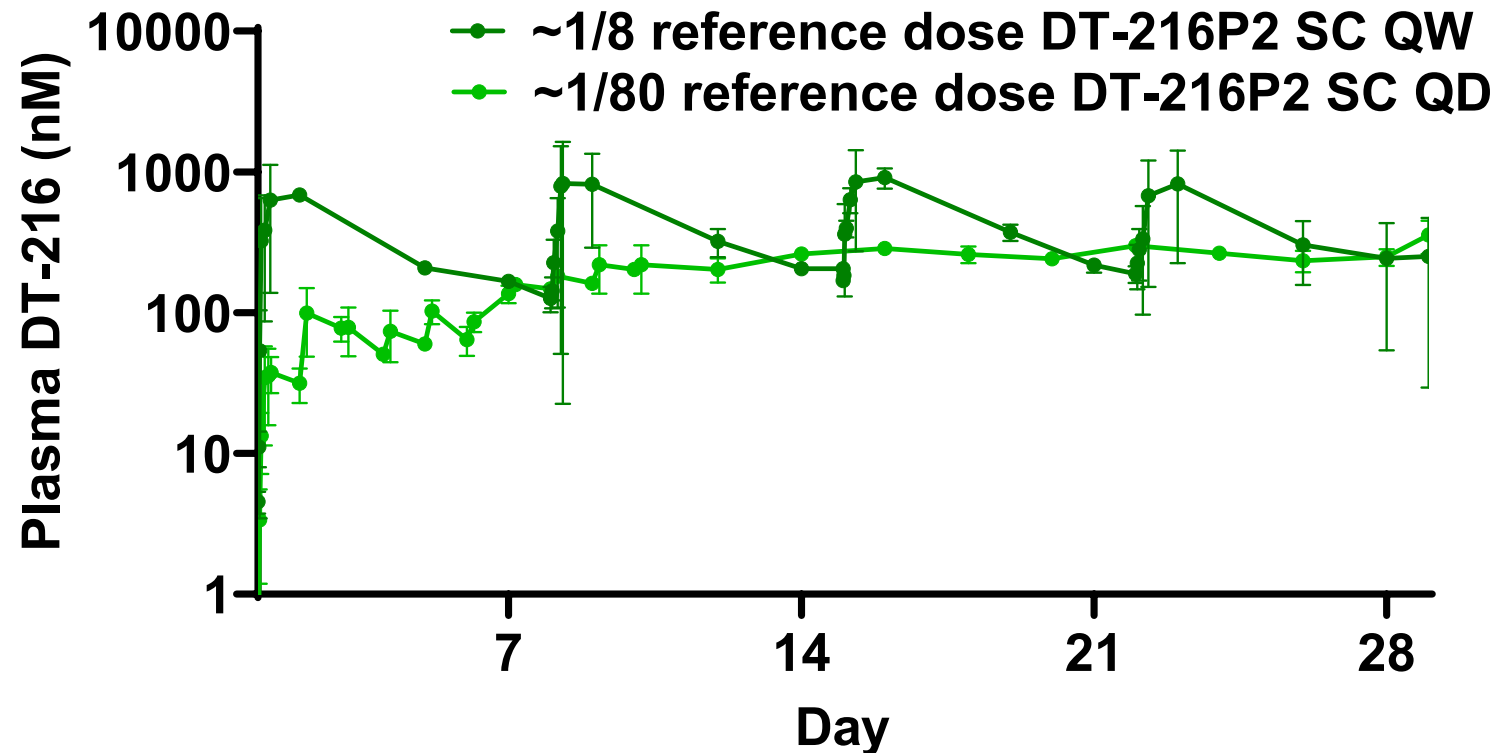
Note: Bars represent standard deviation. Data reflects separate experiments at different times and results were not observed in a head-to-head study. Caution should be advised when comparing different studies.

Daily or weekly administration of DT-216P2 reaches steady state plasma exposure



NHP

Subcutaneous

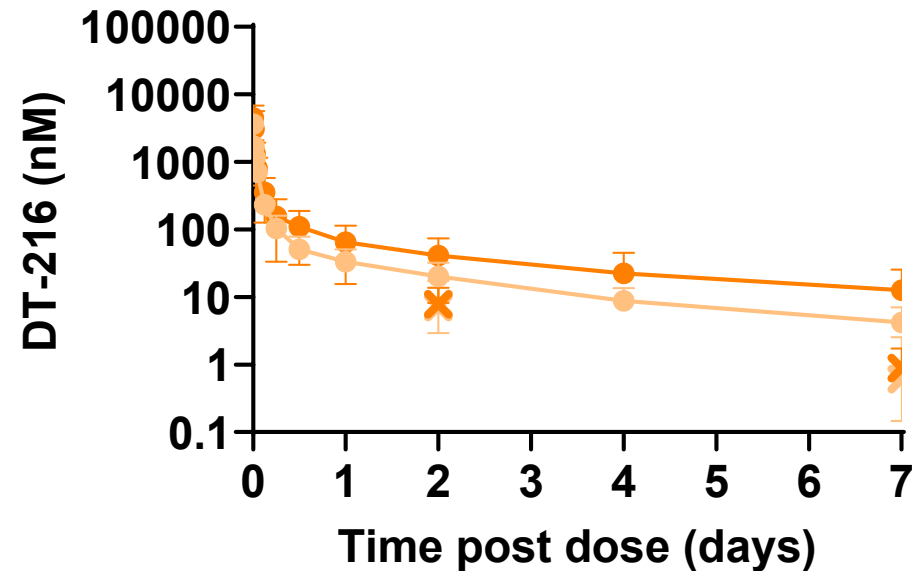


Note: Bars represent standard deviation.

DT-216P2 achieved comparable drug levels in tissue and plasma

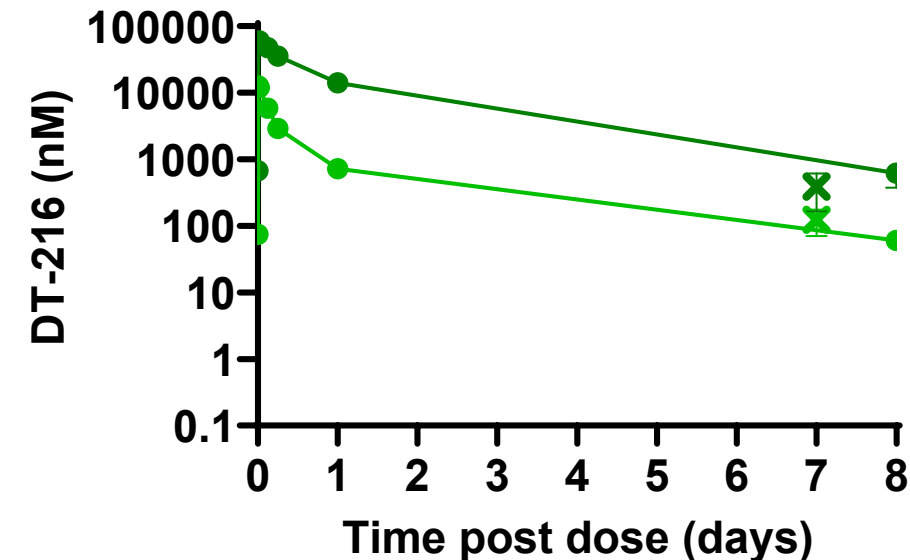
Clinical MAD study prior DT-216 drug product QW IV

- 300mg cohort plasma PK after 3rd dose
- ✕ 300mg cohort muscle biopsy after 3rd dose
- 200mg cohort plasma PK after 3rd dose
- ✕ 200mg cohort muscle biopsy after 3rd dose



NHP DT-216P2 QW IV

- ~1/4 reference dose plasma PK after 4th dose
- ✕ ~1/4 reference dose muscle biopsy after 2nd dose
- ~1/10 reference dose plasma PK after 4th dose
- ✕ ~1/10 reference dose muscle biopsy after 2nd dose

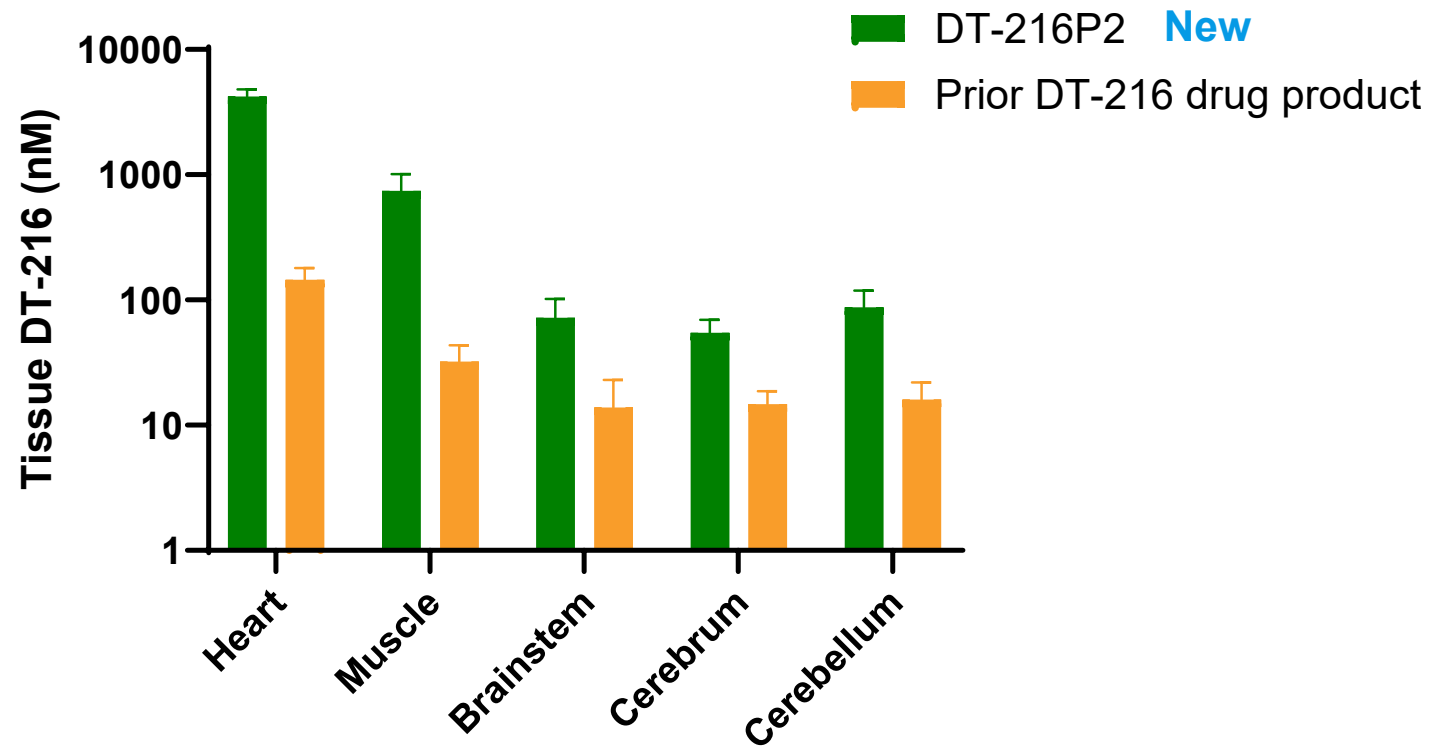


Biodistribution of DT-216P2 IV compared with the prior drug product



Rat

IV



Note: Bars represent standard deviation. Rats received three weekly IV injections of DT-216P2 or prior DT-216 drug product at the same dose level and tissues were collected on day 16 of the study (1 day after the last dose)

FA program next steps

IND-enabling

- Repeat administration of DT-216P2 in rats and NHPs well-tolerated at doses that achieved higher and more durable exposure than prior DT-216 drug product
- GLP animal studies support that DT-216P2 has addressed the injection site reactions seen with prior DT-216 drug product

Phase 1

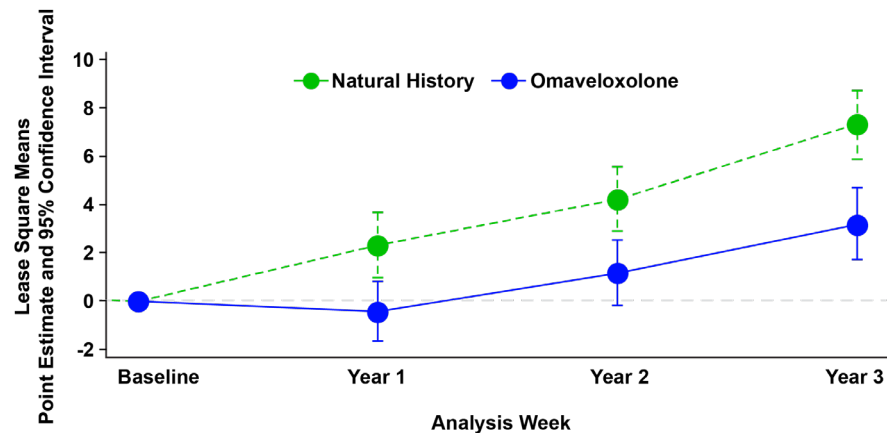
- Initiate Phase 1 SAD in 1H 2025 to assess PK in healthy volunteers by multiple routes of administration, IV (infusion) and subcutaneous (injection and infusion) - received okay to proceed in Australia
- Begin FA patient dosing later in 2025 to understand safety, PK, and pharmacodynamics
- Anticipate frataxin data based on 12-weeks of dosing to reach steady state

Phase 2

Unmet need in FA remains significant



- Skyclarys® does not address the genetic root cause of FA or change FXN level
- Skyclarys® slows disease progression on neurological end point (mFARS) but only during the 1st year
- Estimated peak sales of \$1.6B/yr



- Other drug candidates in clinical development that aim to address the root cause of FA involve complex modalities
- None of these change endogenous FXN



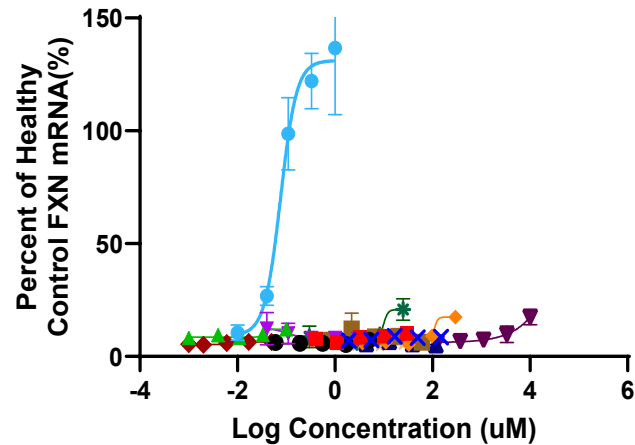
HIV-TAT-FXN protein



AAV gene therapy
targeting cardiac tissue

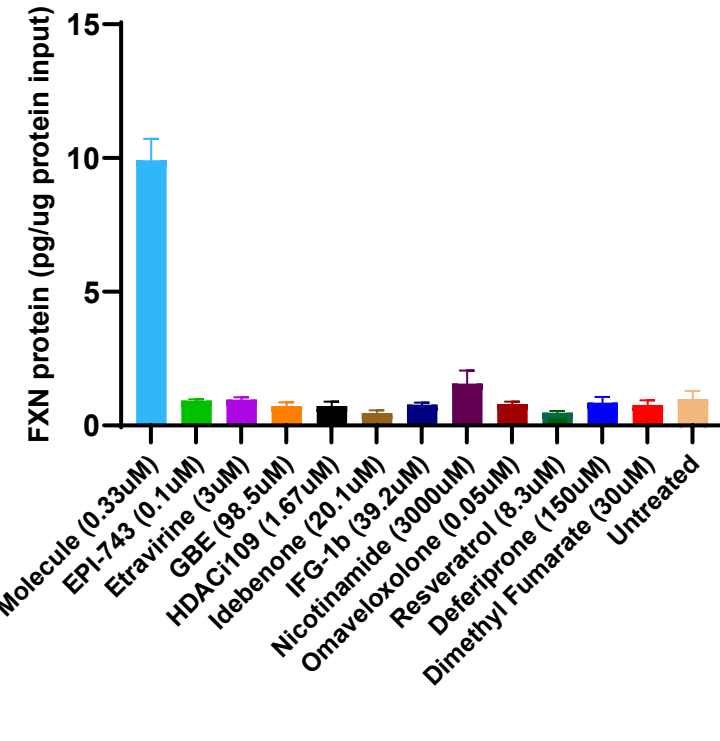
Activity of FA GeneTAC[®] molecules compared with other compounds that have purportedly increased FXN in FA patient LCLs

FXN mRNA (24 hours)



- FA GeneTAC[®] Molecule
- Deferiprone
- Dimethyl Fumarate (DMF)
- EPI-743
- Etravirine
- Gingko Biloba Extract
- HDACi109
- Idebenone
- Interferon Gamma - 1b
- Nicotinamide
- Omaveloxolone
- Resveratrol
- Thiamine

FXN Protein (3 days)



Note: Molecules tested in FA patient lymphoblastoid cells. Bars represent standard deviation. Cells treated with DT-003 FA GeneTAC[®] molecule. Concentrations selected based on published active ranges. Omaveloxolone is a NRF2 activator that was not purported to increase FXN.

DT-168 for Fuchs Endothelial Corneal Dystrophy

No disease-modifying options for FECD today, majority of ~5M US patients quietly suffer declining visual function


~5M US FECD patients



Increasing Endothelial Dysfunction

 **Diagnosis by optometrist**

 **Loss of visual function**

 **Patient can't stand symptoms**

4.6–5.3M US FECD patients with TCF4 repeat expansion²

Surgical Descemet membrane stripping or corneal transplant is limited to 18,000-30,000 by capacity, morbidity and complexity

*“If there was something that would halt progression —
I would treat everyone. Even people without symptoms.”*

- Optometrist

Vision with FECD¹



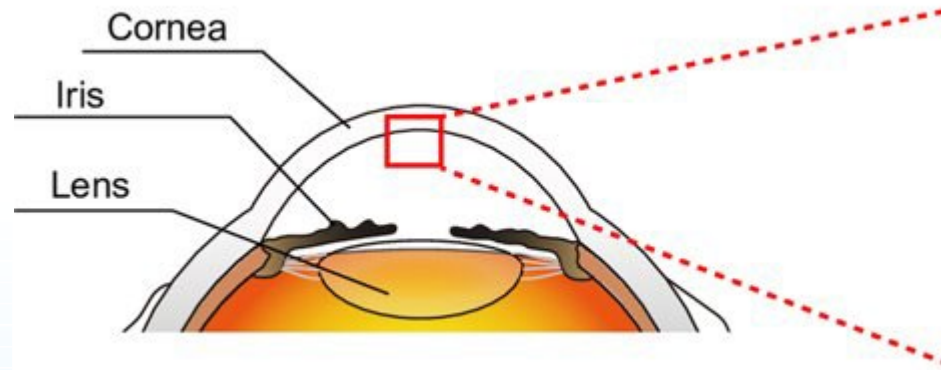
Reduced Vision Quality

- ↓ vision acuity, esp. low contrast
- Blurriness in the morning
- Glare and halo
- ↓ contrast sensitivity

Discomfort and Pain

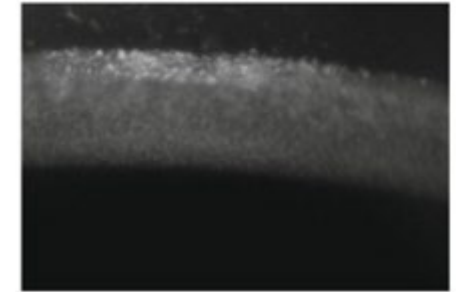
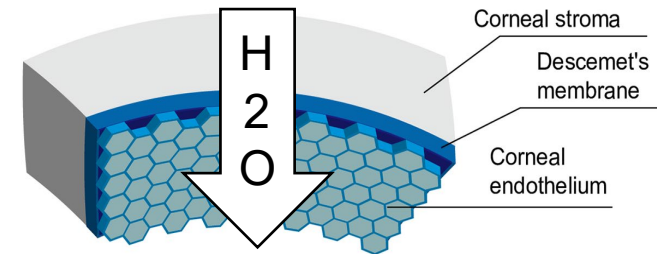
- “Grittiness” in the eye
- Floaters
- Episodes of pain

Treatment goal: Restore endothelial function and visual function

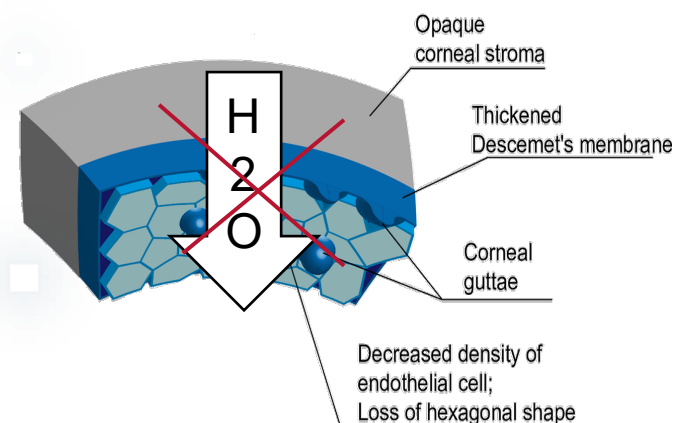


- **Corneal endothelial cells (CECs)** pump water out of the stroma to ensure proper dehydration of collagen fibrils for corneal transparency
- **CEC loss or dysfunction leads to excess hydration of corneal stroma**, resulting in loss of corneal transparency, and visual dysfunction
- As CECs are lost, ECM masses called guttae also form in the basement membrane with **concurrent reduction in cell density, cell shape**, and/or bullae and ultimately fibrosis

Healthy individuals



Patients with FECD

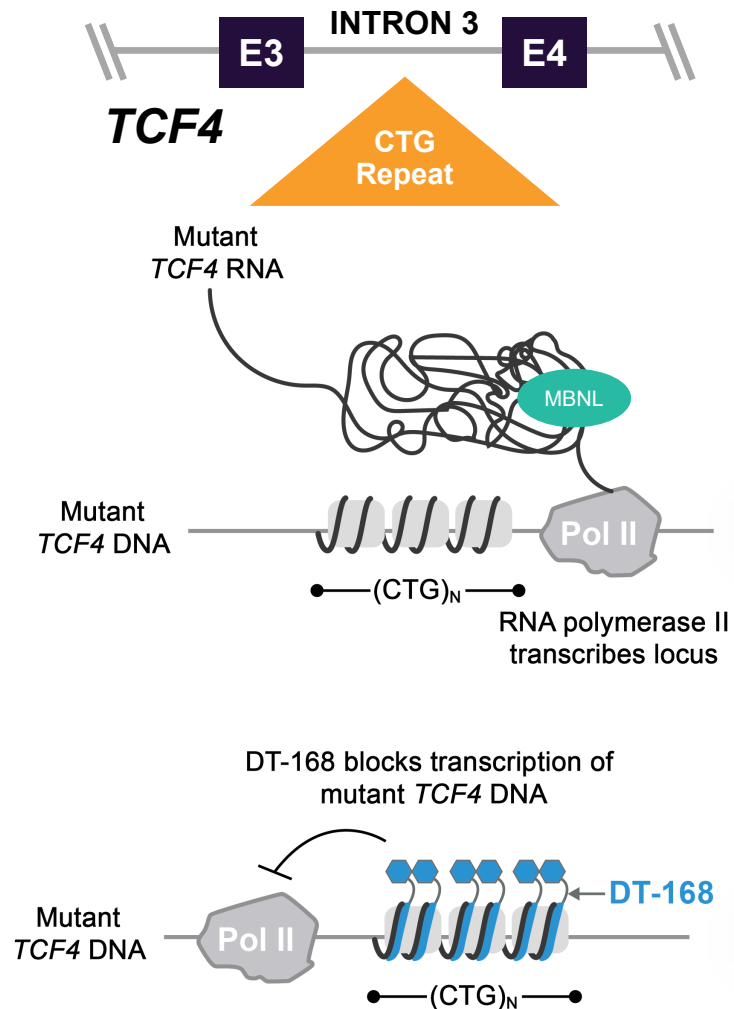


Slit-lamp biomicroscopy diagnosis by HCP



Arrows indicate guttae

FECD GeneTAC[®] Molecules are designed to suppress transcription of *TCF4* DNA that contains expanded CTG repeats



Mutant *TCF4* RNA induces FECD molecular pathology:

Hairpin formation

Nuclear foci

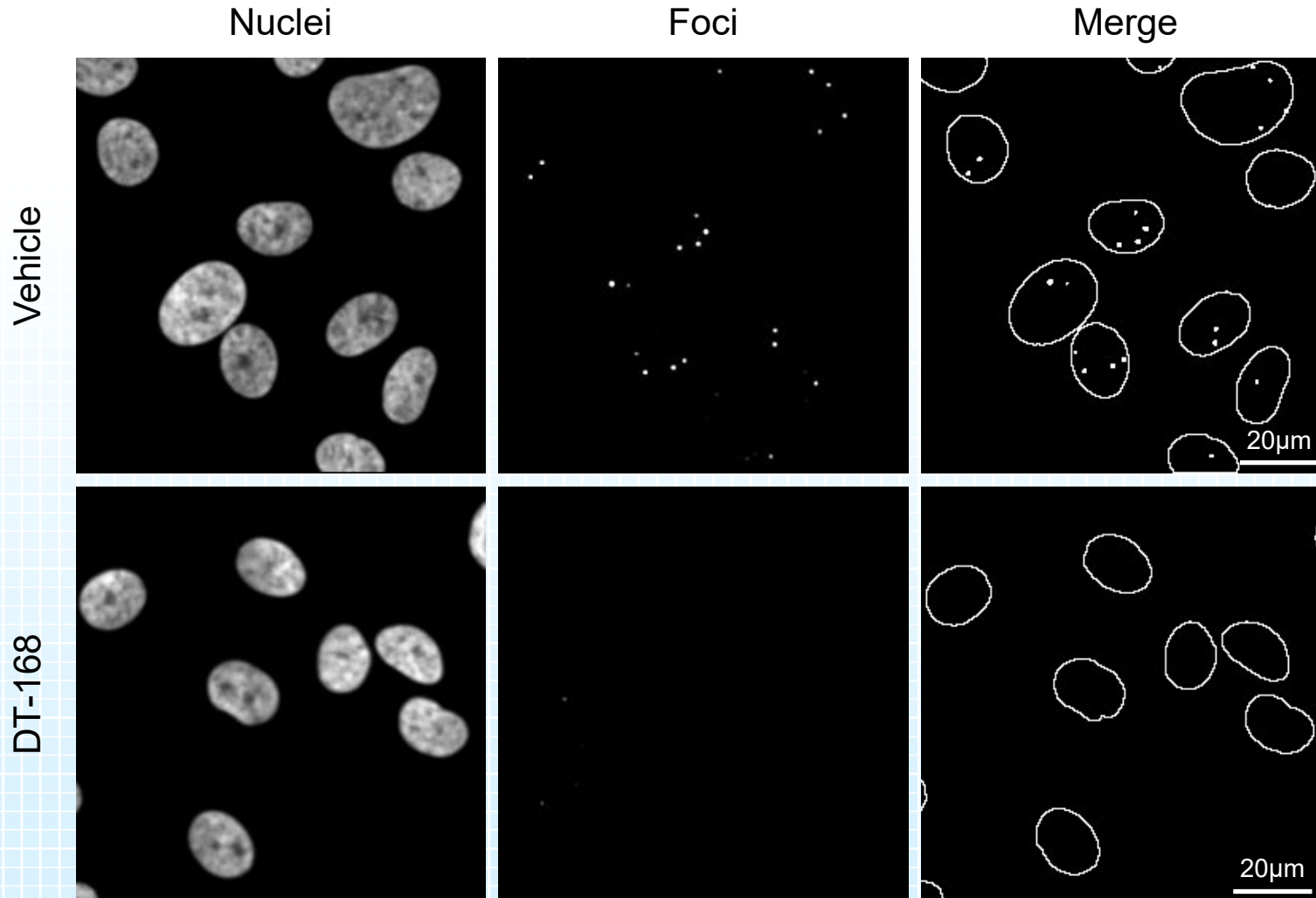
MBNL sequestration

Spliceopathy

CEC dysfunction and loss

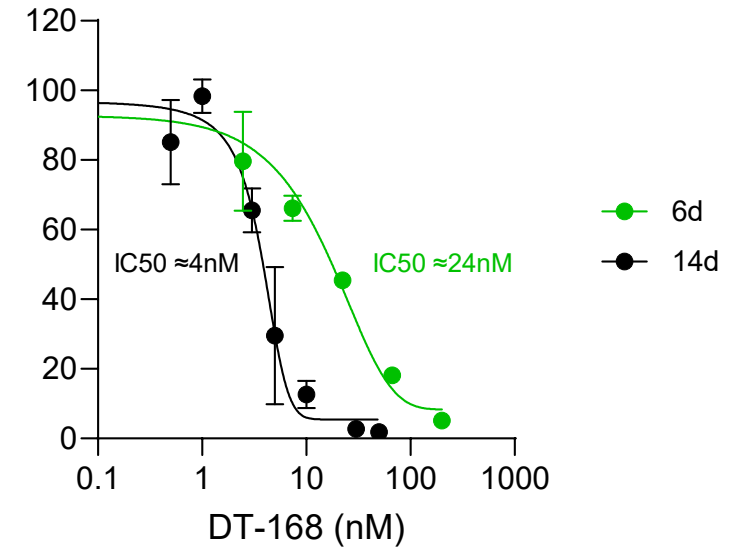
DT-168 designed to suppress initiation of FECD molecular pathology thereby **restoring CEC function and preventing further CEC loss**

DT-168 reduces nuclear foci in primary CECs isolated from patients with FECD with high potency (<math><5\text{nM}</math> foci $\text{IC}_{50}</math>)$



CECs treated daily for 6 or 14 days with DT-168

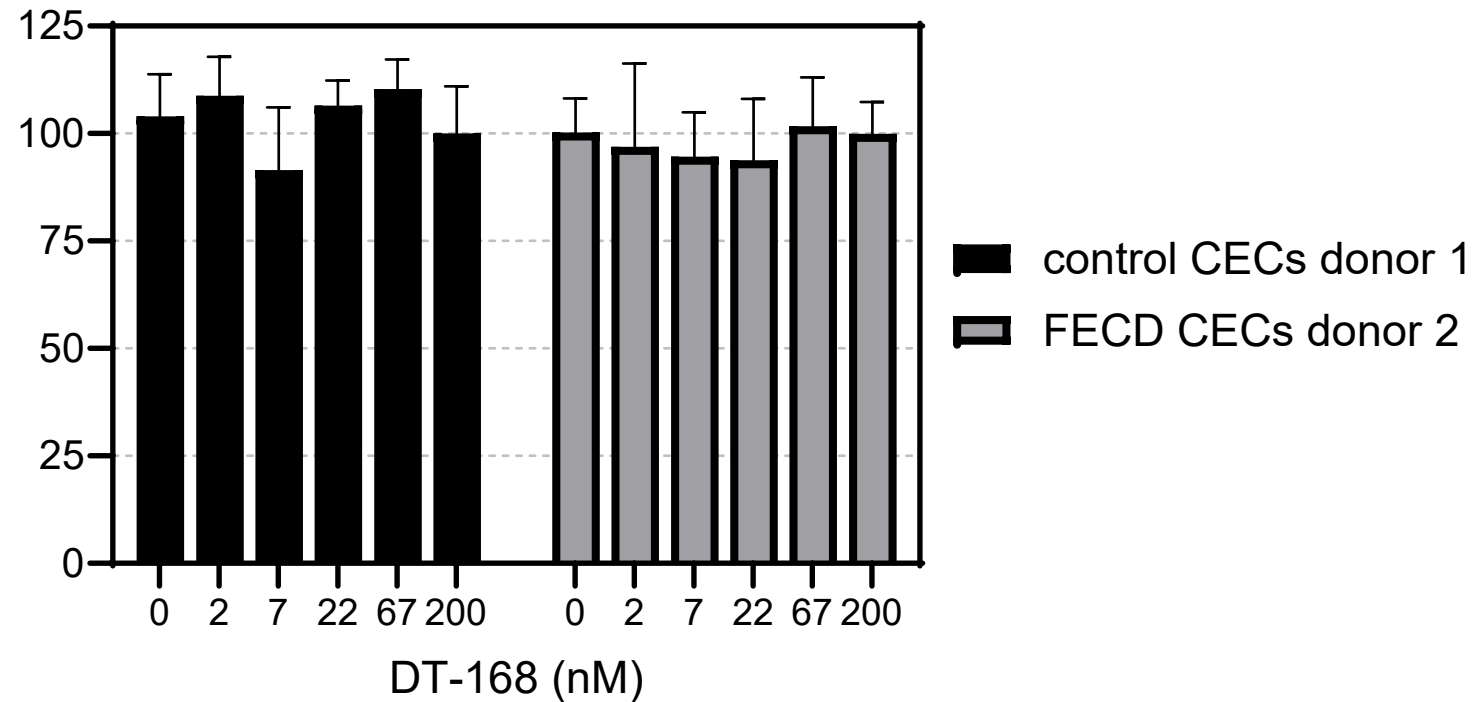
Foci per nucleus
Percent of untreated



Note: Bars represent standard deviation.

Wild-type *TCF4* transcripts are unaffected in primary control and FECD CECs following treatment with DT-168

TCF4 mRNA
RT-qPCR; normalized to RPLP0

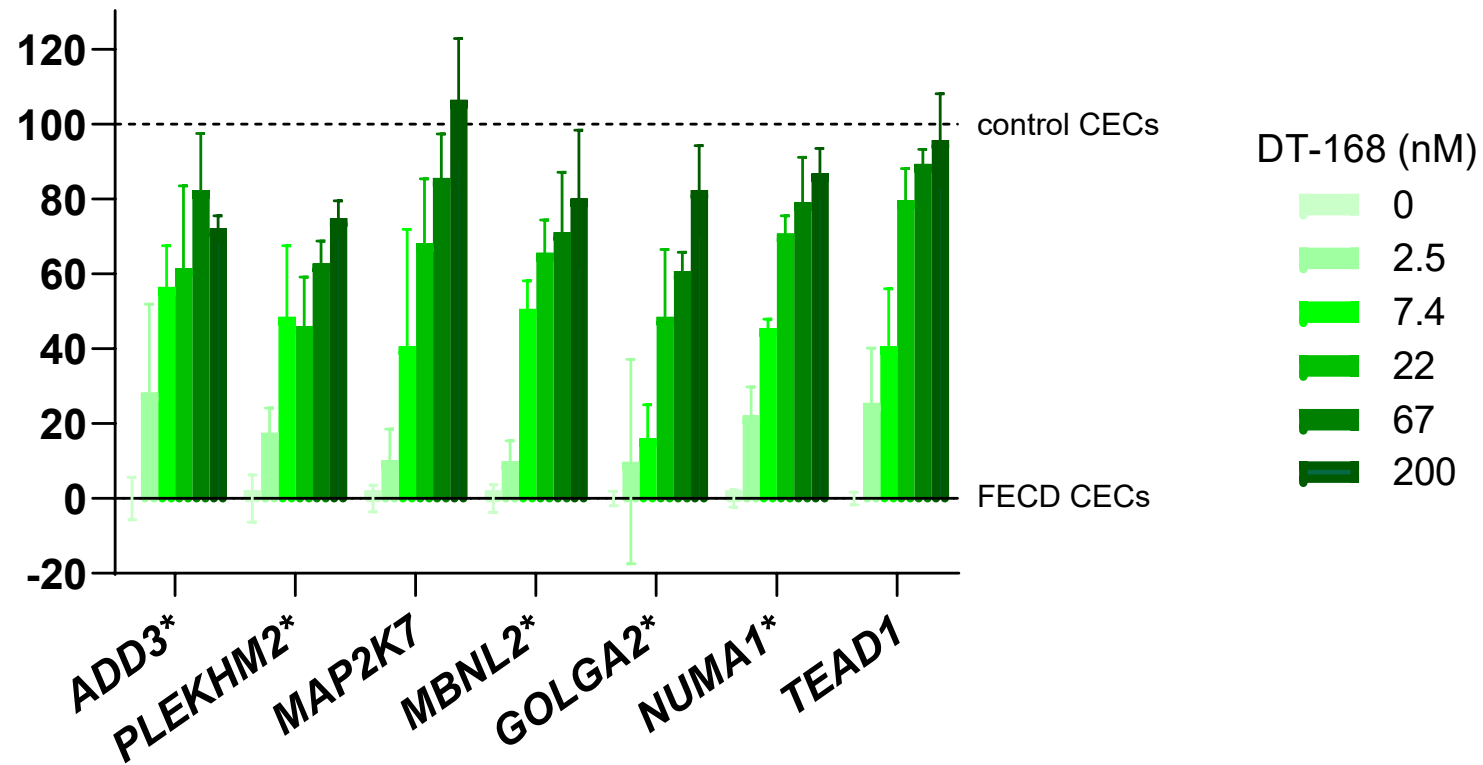


Notes: Control CECs from donor 1 and patient-derived FECD CECs from donor 2 were incubated with DT-168 for 6 d, after which mRNA was purified and used to quantify wild-type *TCF4* transcripts using a primer-probe set targeting exons 18/19. Data represent averages of N=3 replicates, and error bars represent standard deviation. Data source: DSGN-2023-DT168-1006.

DT-168 improves spliceopathy in primary FECD CECs

Top 7 improved genes for FECD CECs derived from donor 2

Patient-derived FECD CECs + DT-168
6d treatment



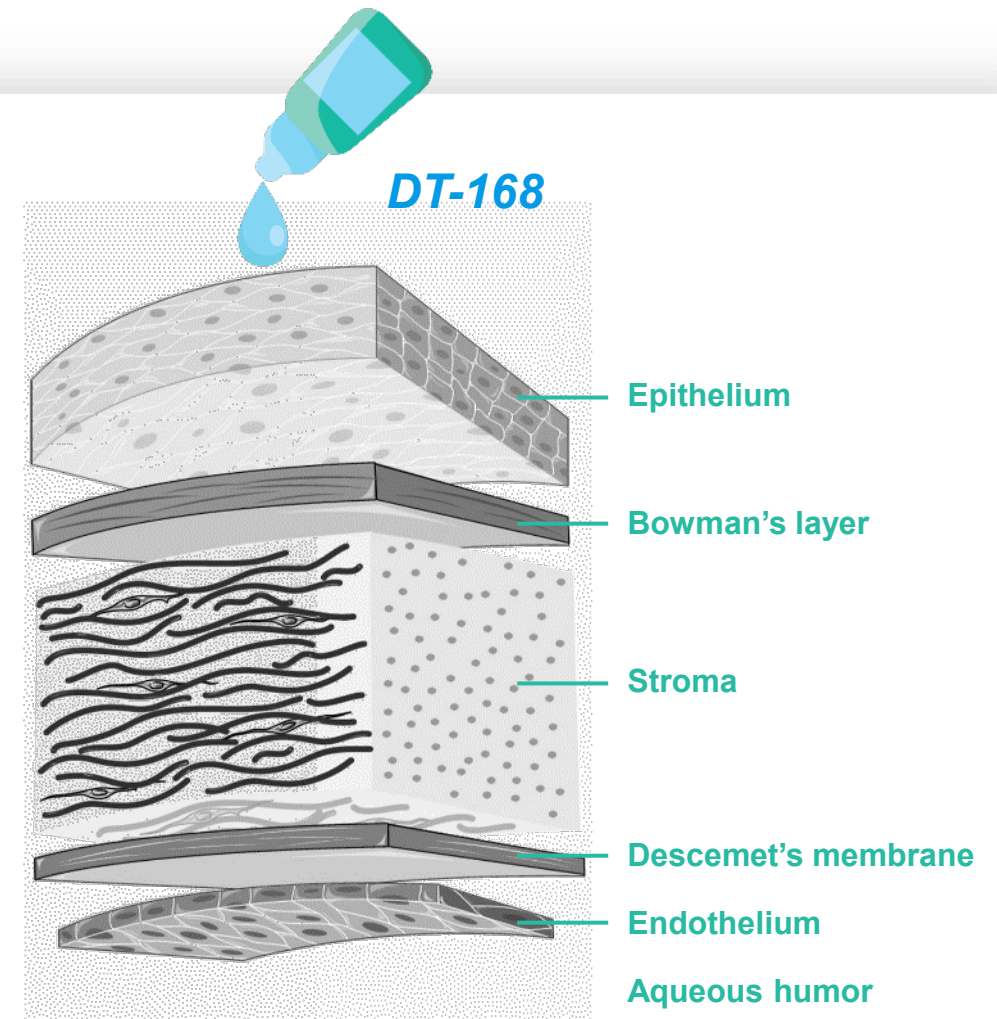
*Previously reported as mis-spliced in primary FECD CECs (Fautsch et al., 2021) Bars represent standard deviation.

DT-168 eye-drops were well-tolerated and readily distributed to CECs

Key observations from nonclinical studies

- Well-tolerated after single and multiple doses per day for 14 days with clean histology
- DT-168 distributed throughout cornea after topical delivery, measurable levels of drug in aqueous humor
- Micromolar DT-168 levels present in cornea at 24 hours post-dose
- Negligible systemic exposure following dosing
- Chronic tox ongoing

Phase 1 MAD trial evaluating 7 days BID dosing in healthy volunteers; data expected in 1H 2025



FECD Observational Study aims to increase probability of DT-168 programmatic success



OBSERVATIONAL STUDY

- Targeting recruitment of 200 patients (~400 eyes) with genetically confirmed TCF4 mutations 2-year follow-up
- Confirm disease characteristics and deterioration in context of running a trial
- Identify characteristics for FECD patients at risk of more rapid disease progression



EVALUATE ENDPOINTS

- Anterior eye tomography
- Corneal endothelium microscopy
- Visual acuity (low luminance, contrast sensitivity, glare disability)
- Visual disability
- Patient reported outcome



REVIEW PROGRESSION

- Measure disease progression in patients with at least 1 tomographic feature of subclinical edema¹
- Evaluate patient characteristics and obtain satisfactory markers of disease progression and measurable endpoints
- Observational study could expedite recruitment in interventional trials

1) Patel et al. Ophthalmology. 2020

Myotonic Dystrophy Type 1 (DM1)

Myotonic dystrophy type 1 (DM1)

Dominant repeat expansion drive disease

DM1 patients have expanded CTG repeat in the 3' UTR of one copy of their DMPK gene.

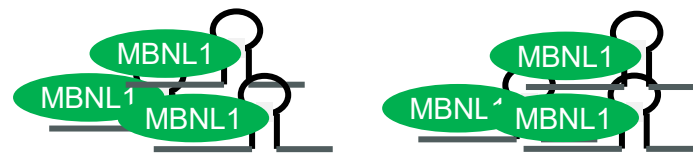
Normal



Diseased (one copy)



Expanded CTG repeats in the DMPK mRNA trap MBNL1 splicing factors in CUG foci. Reduced MBNL1 activity leads to improperly spliced genes and cellular dysfunction



Symptoms



intellectual impairment and excessive daytime sleepiness



cataracts



heart problems



digestive problems causing stomach pain



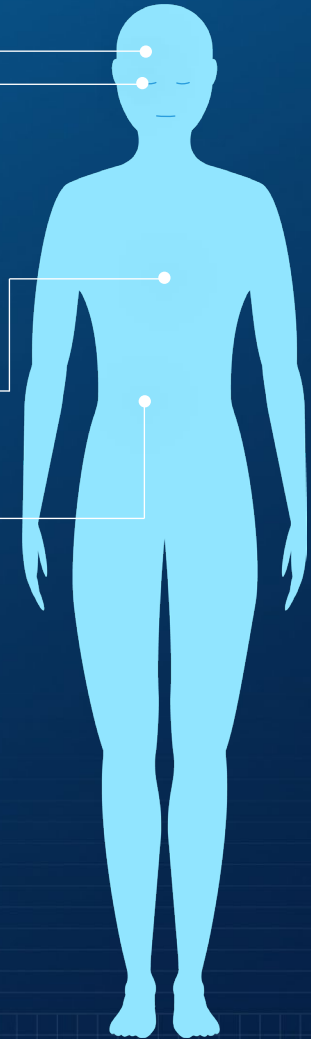
skeletal muscle weakness



muscle atrophy





myotonia

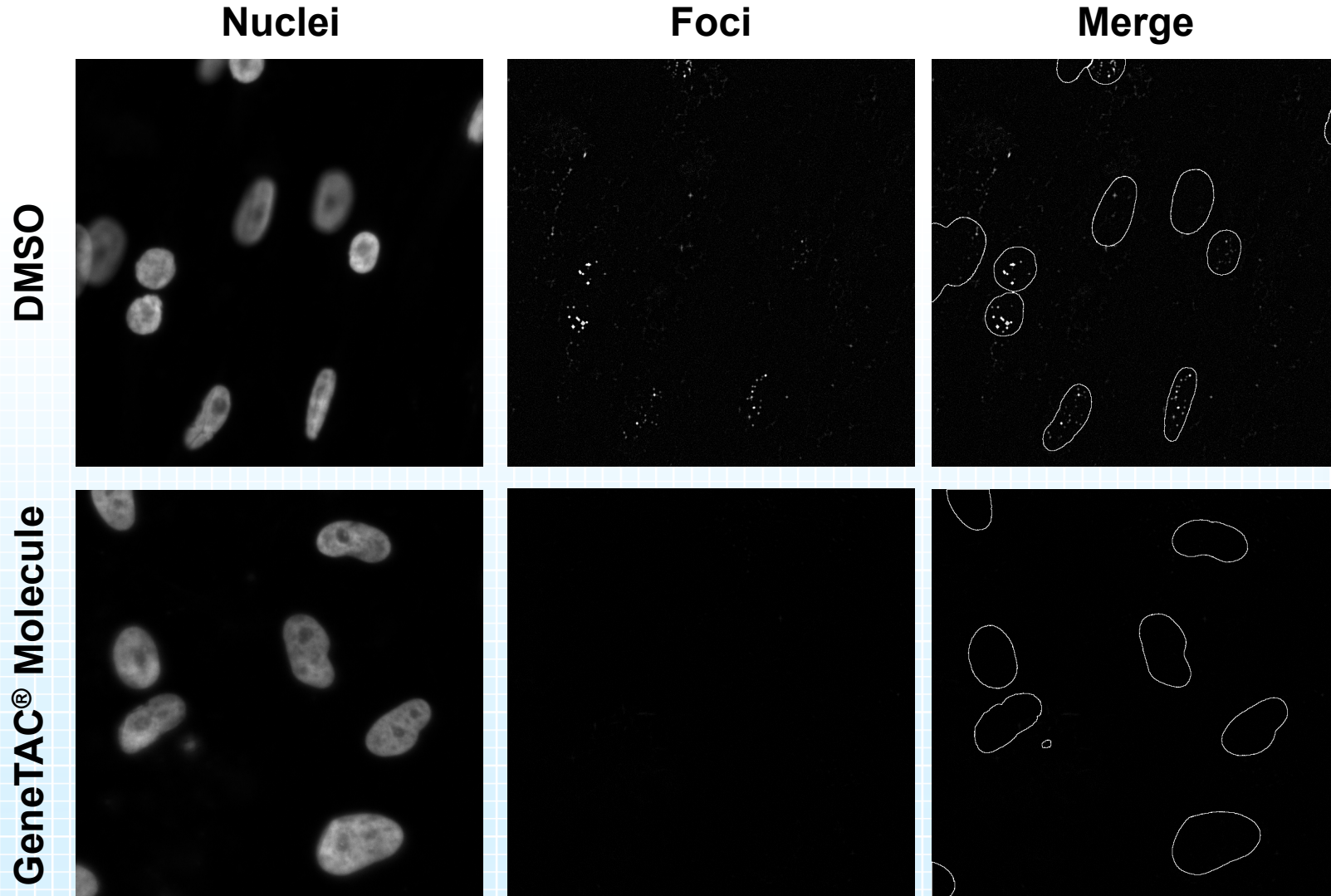


70,000+ individuals affected in the U.S.
90,000+ individuals affected in Europe

GeneTAC[®] molecules for DM1 have several advantages

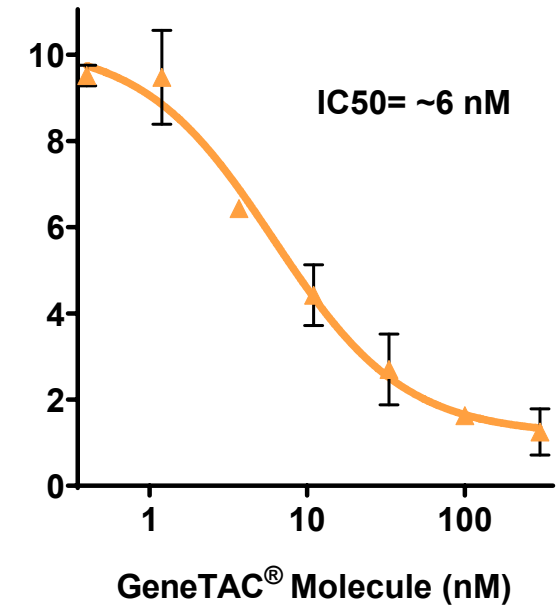
	GeneTAC [®] DM1 candidates	 AOC 1001	 DYNE-101
Allele selectivity	Allele-selective	Non-selective	Non-selective
Modality	Small molecule	siRNA conjugated to TfR1 targeting mAb	ASO conjugated to TfR1 targeting Fab
Target tissue	Distributes widely to impacted tissues	Muscle	Muscle
<i>In vitro</i> efficacy for foci reduction	~90% foci reduction	“Quantifiable reduction” in nuclear foci	“Approximately 40% reduction in nuclear foci”

GeneTAC[®] Molecule causes potent foci reduction in DM1 patient-derived cells



DM1-patient derived cells treated with DM1 GeneTAC[®] Molecule

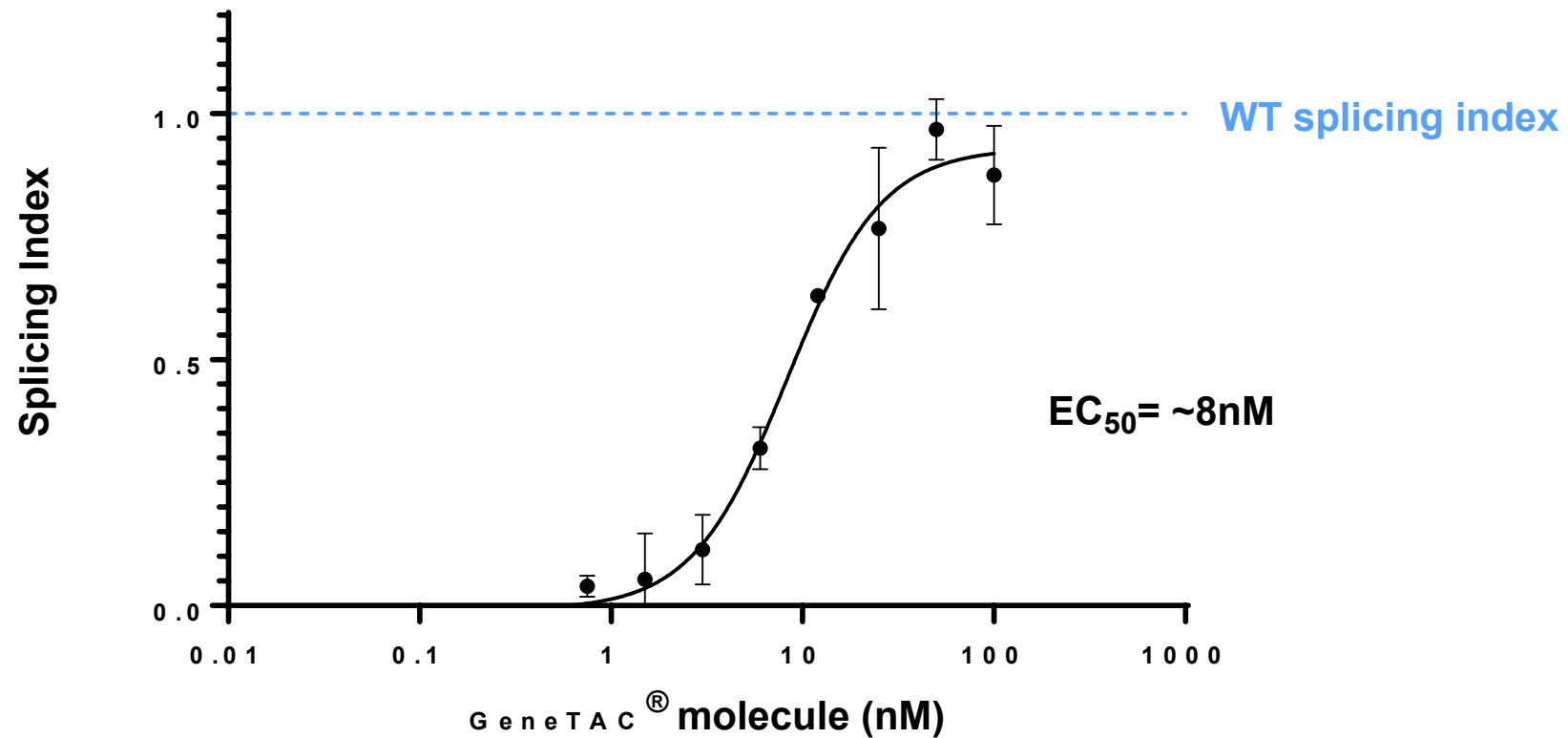
Average foci per nucleus



Note: Bars represent standard deviation.

GeneTAC[®] Molecule leads to robust correction of mis-spliced transcripts in patient-derived cells

DM1 patient-derived cells
7d treatment with DM1 GeneTAC[®] Molecule



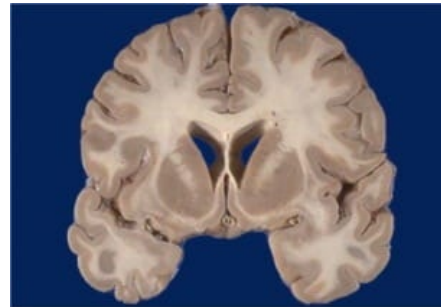
Note: Bars represent standard deviation.

Huntington's Disease (HD)

Huntington's Disease (HD)

GeneTAC[®] molecules selectively reduce mutant Huntingtin and spare the normal Huntingtin allele

- Causes brain atrophy due to death of neurons
- Symptoms range from motor function to neurological
- Universally fatal
- HD Prevalence: >40,000 in the U.S.



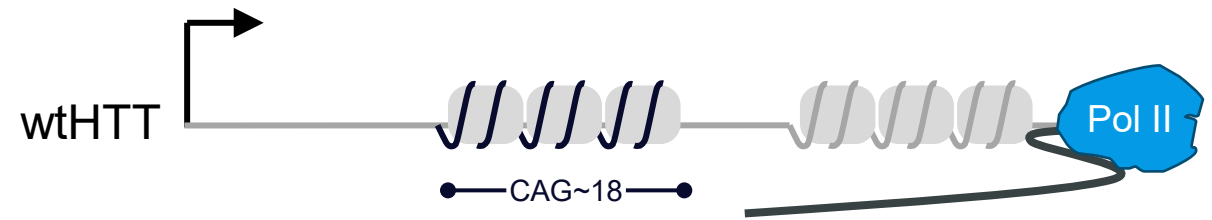
Control – no atrophy



HD

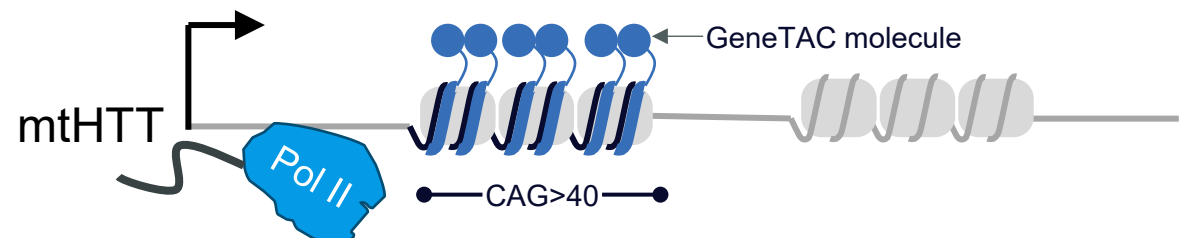
Normal HTT gene — *thought to be important to normal state*

GeneTAC[®] molecules *preserve transcription* at the *wild type locus*



HTT gene with expansion

GeneTAC[®] molecules *block transcription* specifically at the *mutant locus*

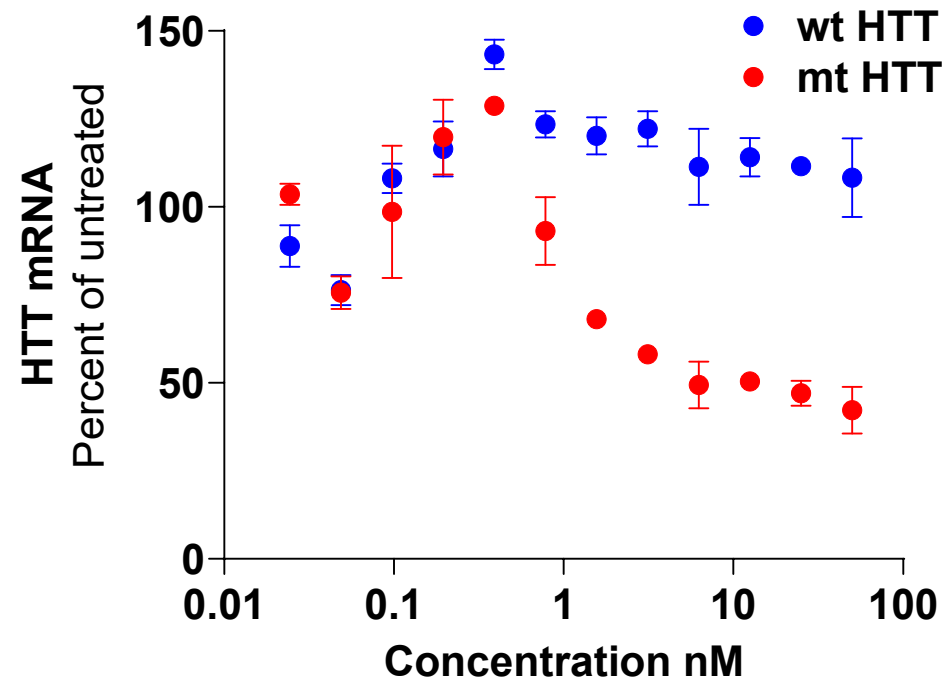


GeneTAC[®] Molecule treatment causes potent, allele-selective reduction of mtHTT mRNA in HD patient fibroblasts

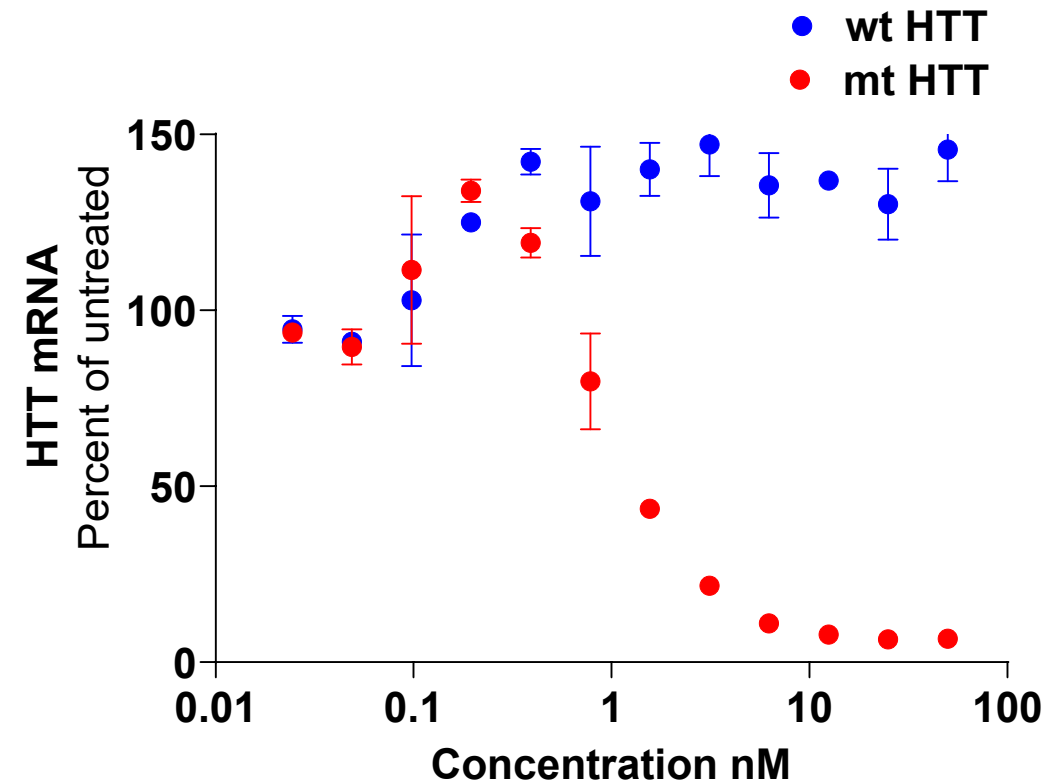
Candidate 1

Normal onset HD patient-derived fibroblasts
CAG 18/44

Early onset HD patient-derived fibroblasts
CAG 18/180



mtHTT IC₅₀ 1.3 nM



mtHTT IC₅₀ 1.3nM

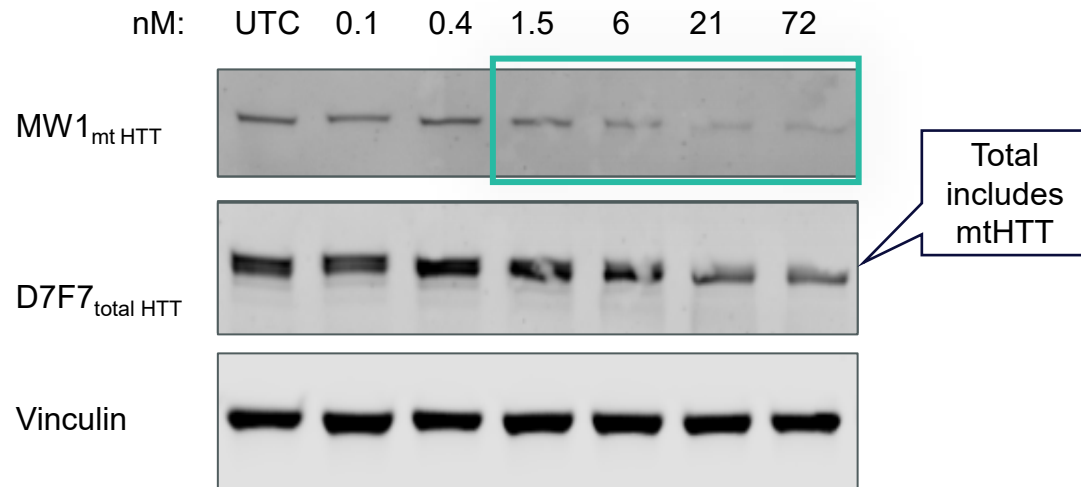
GeneTAC[®] Molecule treatment causes potent, allele-selective reduction of mtHTT protein in HD patient fibroblasts

Candidate 1

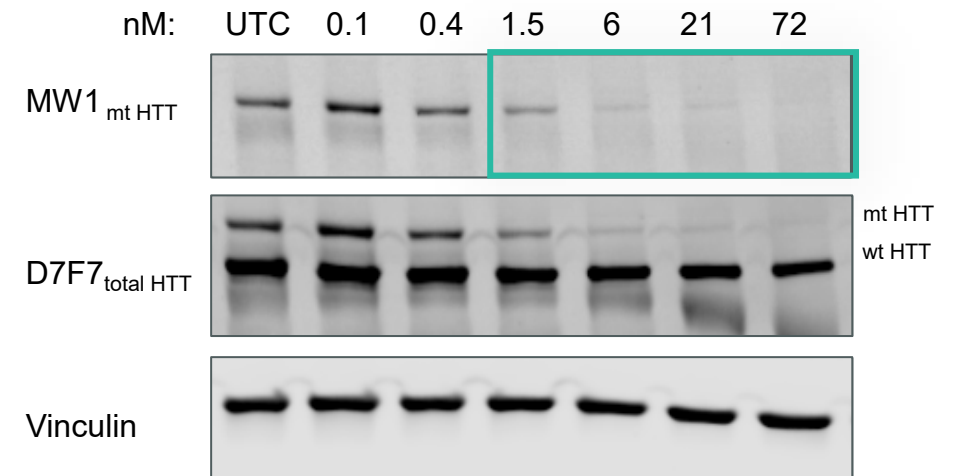
Normal onset HD patient-derived fibroblasts
CAG 18/44

Early onset HD patient-derived fibroblasts
CAG 18/180

Western blot



Western blot

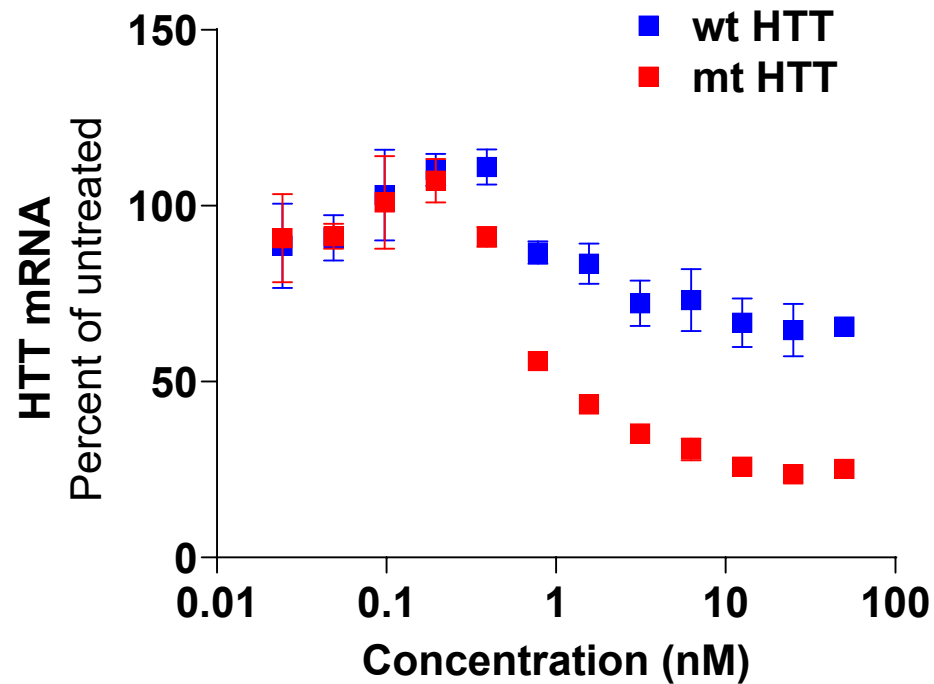


GeneTAC[®] Molecule treatment causes potent, allele-selective reduction of mtHTT mRNA in HD patient-derived fibroblasts

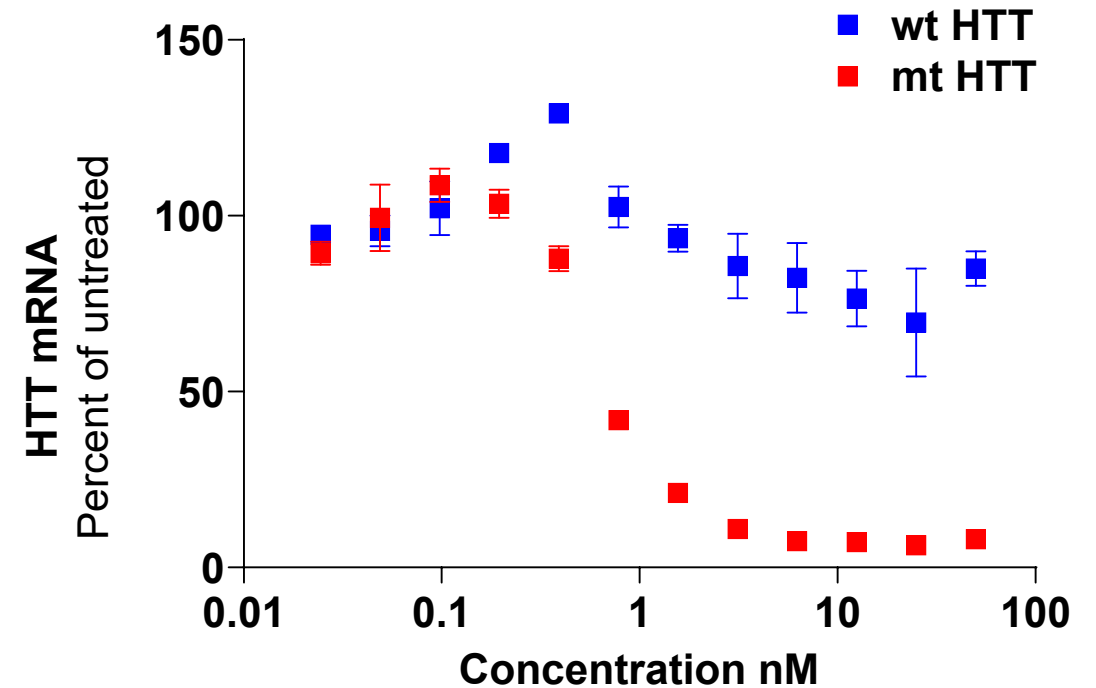
Candidate 2

Normal onset HD patient-derived fibroblasts
CAG 18/44

Early onset HD patient-derived fibroblasts
CAG 18/180



mtHTT IC₅₀ 0.8 nM



mtHTT IC₅₀ 0.7nM

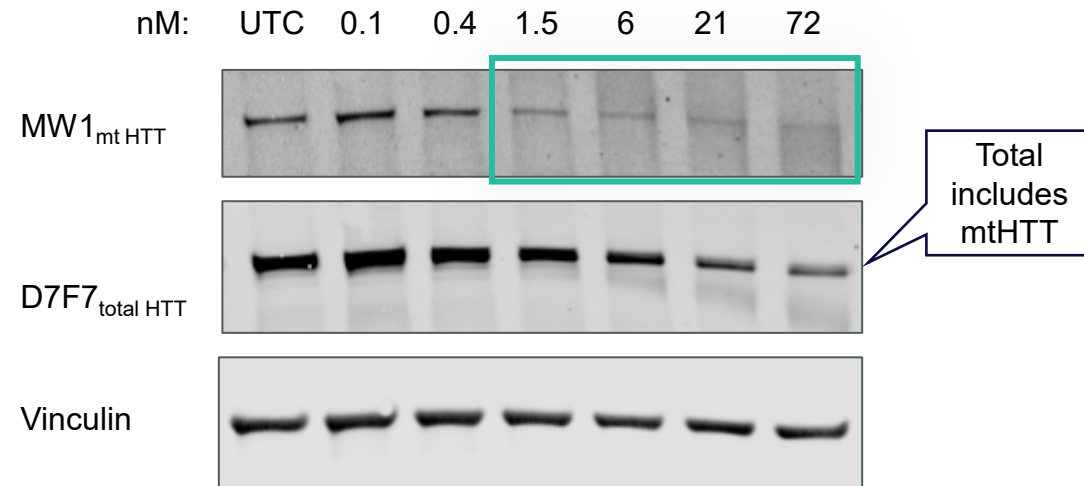
GeneTAC[®] Molecule treatment causes potent, allele-selective reduction of mtHTT protein in HD patient-derived fibroblasts

Candidate 2

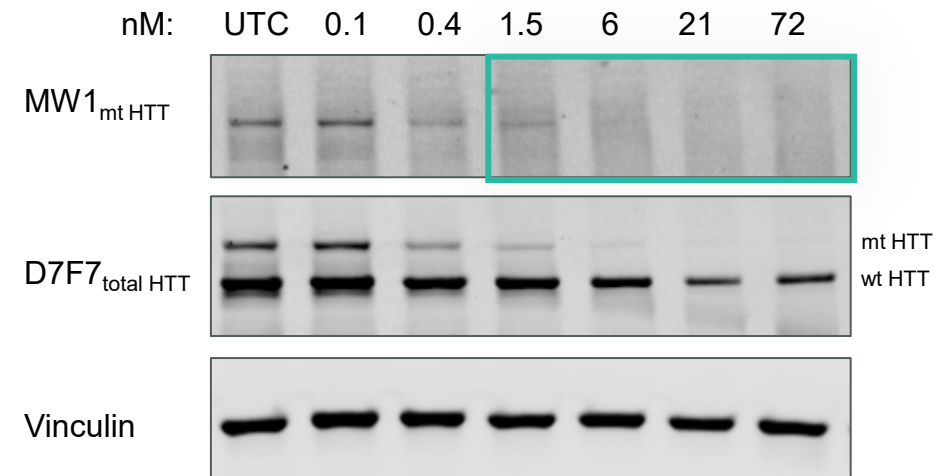
Normal onset HD patient-derived fibroblasts
CAG 18/44

Early onset HD patient-derived fibroblasts
CAG 18/180

Western blot



Western blot



Candidates well-tolerated in both rodents and NHPs

Rodents

Tested in wild-type rats and mice:

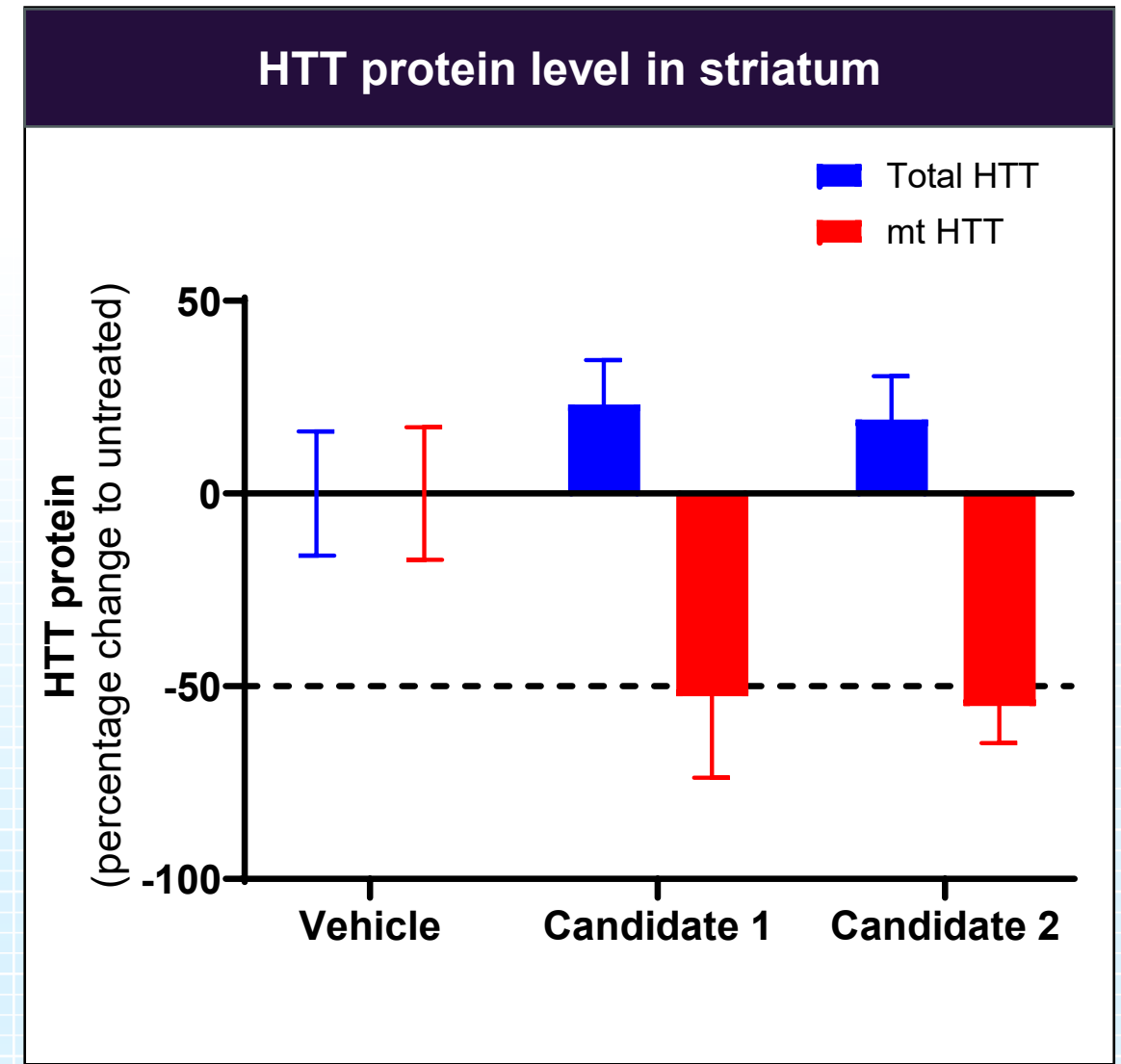
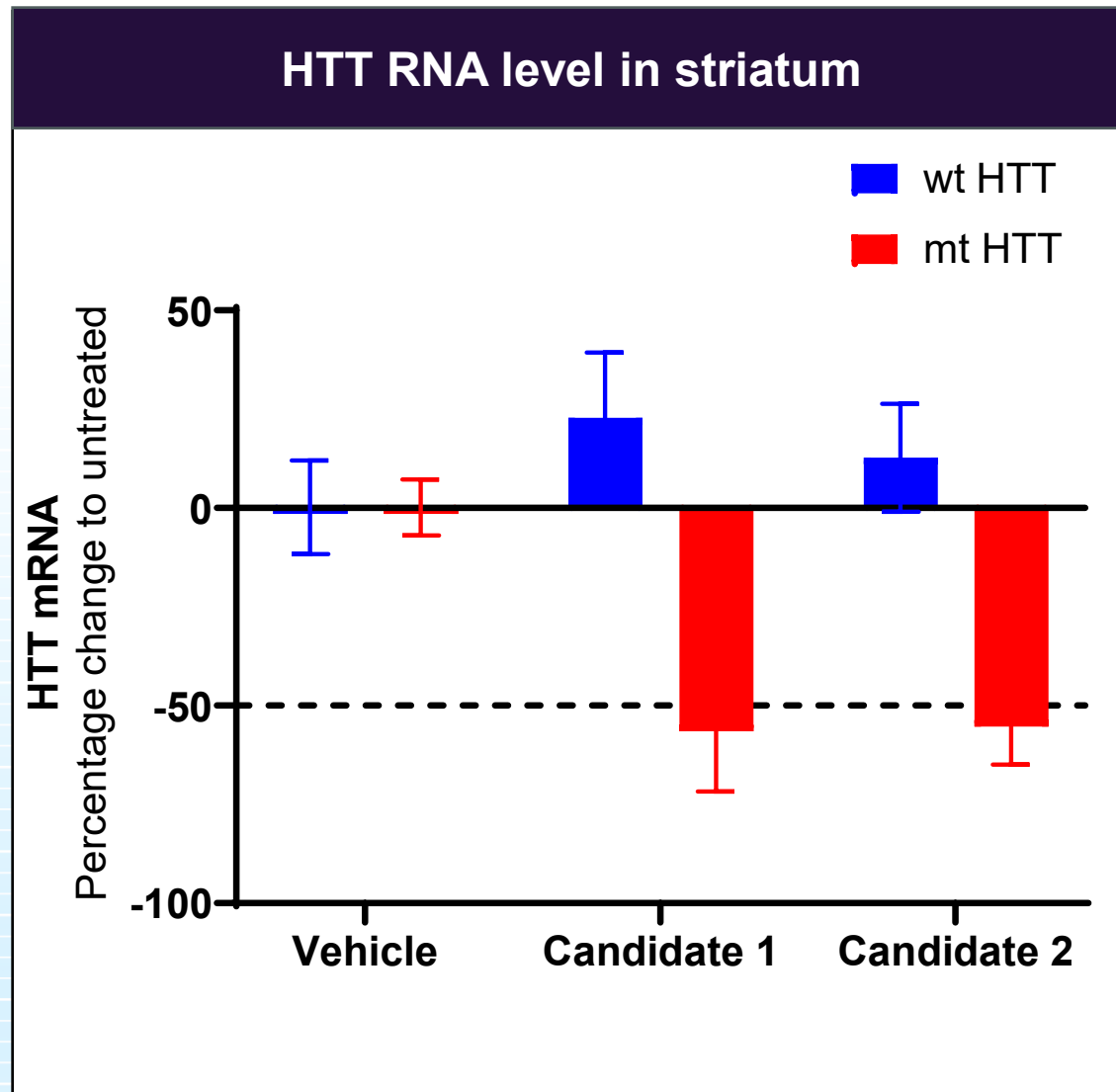
- Well-tolerated in ongoing studies:
 - Weekly doses for three weeks in rats
 - Daily doses for one week in mice
- Tolerability assessed across all macroscopic measures including weight, blood chemistry and liver function tests

NHP

Tested in wild-type non-naïve NHPs

- Well-tolerated in ongoing studies
- Tolerability assessed across all macroscopic measures including weight, blood chemistry and liver function tests

Allele-specific reductions of RNA and protein observed in the brain in zQ175DN HD mouse model after 8 weeks of systemic administration



Note: mice were treated with Candidate 1 or Candidate 2 for 8 weeks, vehicle group treated for 4 weeks. Percent change calculated based on treated compared to untreated. RNA level determined with RT-PCR. Protein level determined with TR-FRET. Data presented as Mean \pm SD.

GeneTAC[®] HD candidates have significant advantages over other HTT lowering therapeutic approaches

Allele-selective

Reduce mutant Huntingtin and spare the normal Huntingtin

Non-selective
Reduce both normal and mutant Huntingtin

	GeneTAC [®] HD candidates	WAVE [™] LIFE SCIENCES WVE-003
Modality	Small molecule Facilitate drug biodistribution to the whole brain	ASO
Delivery	Parenteral administration	Intrathecal administration
Target somatic expansion	Yes Target repeats, increased efficacy as repeats expand during disease progression	No Target SNP3
Patient population	All HD patients	~40% of patients with SNP3
Latest milestone	<ul style="list-style-type: none"> • Selective reduction of mtHTT in patient cells (IC50=~1nM) • Well tolerated in rodents and NHPs 	Phase 1/2 <ul style="list-style-type: none"> • Reduced mtHTT • Increased NfL observed

uniQure
AMT-130

 **IONIS**[™]
Tominersen


PTC-518

Strong financial position to enable programs and platform

PLATFORM

- **Proprietary GeneTAC[®] platform** designed to generate blockbuster products with first/best-in-class profiles for severe monogenic disorders

PROGRAMS

- Two clinical-stage programs in 2025 – FA and FECD
- Active research pipeline led by DM1 and HD GeneTAC[®] programs

PLAN

Balance sheet as of
September 30, 2024

\$254.1 MILLION

Current cash to fund
planned operations

INTO 2029

Cash runway
enables up to

**4 PROGRAMS TO
CLINICAL POC***