UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549

FORM 8-K

CURRENT REPORT

Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): September 21, 2026

Metagenomi Therapeutics, Inc.

(Exact name of Registrant as Specified in Its Charter)

Delaware	**001-41949**	**81-3909017**
(State or Other Jurisdiction of Incorporation)	**(Commission File Number)**	**(IRS Employer Identification No.)**

5959 Horton Street **7th Floor** **Emeryville, California** **(Address of Principal Executive Offices)**	**94608** **(Zip Code)**

Registrant's Telephone Number, Including Area Code: (510) 871-4880

(Former Name or Former Address, if Changed Since Last Report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

☐ Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)

☐ Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)

☐ Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))

☐ Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Securities registered pursuant to Section 12(b) of the Act:

Title of each class	**Trading Symbol(s)**	**Name of each exchange on which registered**
Common Stock, $0.0001 par value per share	MGX	Nasdaq Global Select Market

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§ 230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§ 240.12b-2 of this chapter).

Emerging growth company ☒

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. ☒

Item 7.01 Regulation FD Disclosure.

A copy of the Metagenomi Therapeutics, Inc. September 2026 corporate presentation is furnished as Exhibit 99.1 to this Current Report on Form 8-K and is incorporated herein by reference.

The information contained in this Item 7.01 (including Exhibit 99.1) is being furnished and shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), or otherwise subject to the liabilities of that section and shall not be deemed incorporated by reference in any filing under the Securities Act of 1933, as amended, or the Exchange Act, except as shall be expressly set forth by specific reference in such filing.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits

Exhibit No.	Description
99.1	Corporate Presentation of Metagenomi Therapeutics, Inc. dated September 2026
104	Cover Page Interactive Data File (embedded within the Inline XBRL document)

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

Metagenomi Therapeutics, Inc.

Date: September 21, 2026

By: /s/ Jian Irish
Jian Irish, Ph.D., M.B.A.
President and Chief Executive Officer

Precision gene editing designed to deliver durable, curative medicines

Corporate Presentation
September 2026

Forward-looking statements

This presentation includes forward-looking statements, including forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. All statements other than statements of historical facts contained in this presentation are forward looking statements, including statements regarding our cash runway, strategy and plans, industry environment, potential growth opportunities, and the therapeutic potential of our programs. The words "believe," "may," "will," "estimate," "continue," "anticipate," "design," "expect," "could," "plan," "potential," "predict," "seek," "should," "would," or the negative version of these words and similar expressions are intended to identify forward-looking statements.

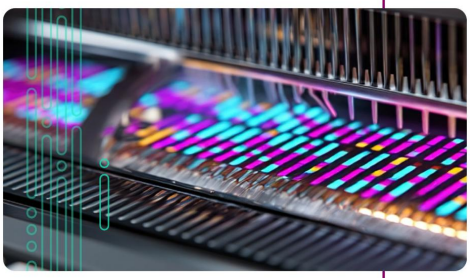
We have based these forward-looking statements on our current expectations and projections about future events and trends that we believe may affect our financial condition, results of operations, strategy, short- and long-term business operations and objectives, and financial needs. These forward-looking statements are subject to a number of risks, uncertainties and assumptions, including but not limited to, our ability to develop and advance our programs and product candidates, our ability to maintain and establish collaborations or strategic partnerships, our regulatory approvals and filings, and other risks, uncertainties and assumptions identified in our filings with the Securities and Exchange Commission (the "SEC"), including our most recent Form 10-K and Form 10-Q filed with the SEC, and any subsequent filings with the SEC.

Moreover, we operate in a very competitive and rapidly changing environment, and it is not possible for our management to predict all risks, nor can we assess the impact of all factors on our business or the extent to which any factor, or combination of factors, may cause actual results to differ materially from those contained in any forward-looking statements we may make. In light of these risks, uncertainties and assumptions, the forward-looking statements and circumstances discussed in this presentation may not occur and actual results could differ materially and adversely from those anticipated or implied in the forward-looking statements. You should not rely upon forward-looking statements as predictions of future events. Although we believe that the expectations reflected in the forward-looking statements are reasonable, we cannot guarantee that the future results, levels of activity, performance or events and circumstances reflected in the forward-looking statements will be achieved or occur. Moreover, except as required by law, neither we nor any other person assumes responsibility for the accuracy and completeness of the forward-looking statements. We undertake no obligation to update publicly any forward-looking statements for any reason after the date of this presentation to conform these statements to actual results or to changes in our expectations, unless required by law.

This presentation contains estimates and other information concerning our industry, our business and the markets for our products. Information that is based on estimates, market research or similar methodologies is inherently subject to uncertainties, and actual events or circumstances may differ materially from events and circumstances that are assumed in this information. Unless otherwise expressly stated, we obtained this industry, business, market and other data from our own internal estimates and research as well as from reports, research surveys, studies and similar data prepared by market research firms and other third parties, industry, medical and general publications, government data and similar sources. These sources include government and industry sources. Industry publications and surveys generally state that the information contained therein has been obtained from sources believed to be reliable. Although we believe the industry and market data to be reliable as of the date of this presentation, this information could prove to be inaccurate. Industry and market data could be wrong because of the method by which sources obtained their data and because information cannot always be verified with complete certainty due to the limits on the availability and reliability of raw data, the voluntary nature of the data gathering process and other limitations and uncertainties. While we believe our internal company estimates and research as to such matters is reliable and the market definitions are appropriate, neither such research nor these definitions have been verified by any independent source, and no reliance should be placed on or should be made on any information or statements made in this presentation relating to or based on such internal estimates and research.

A differentiated *in vivo* gene editing company advancing curative genetic medicines

Metagenomi THERAPEUTICS



An *in vivo* CRISPR gene editing company capitalizing on proprietary technologies to create curative genetic medicines

Focusing on lead program **MGX-001 in hemophilia A advancing to the clinic** with clear development path and well-defined clinical endpoints

Expanding indications by leveraging **differentiated site-specific gene integration systems and partnered assets** targeting cardiometabolic indications

$120.7 million in cash[1] at end of Q2 2026; **Runway anticipated to support operations through Q4 2027**

[1] Cash includes cash, cash equivalents and available-for-sale marketable securities

Differentiated and proprietary gene editing technologies

20,000 + **Suite of novel editing tools** from Metagenomi's unique database

High specificity
Precise editing

Durability
Long term effectiveness

Broad targeting
Expanded genome access

Multiplexed editing
Multi-target capability

We improve editing precision and expand genome targeting and editing functionality beyond CRISPR/Cas9 to effectively address diseases with an underlying genetic cause.

A versatile platform designed to address a wide range of genetic diseases

Metagenomi Technology

Large Gene Integration
Protein replacement

Gene editing in the presence of DNA templates to allow for site-specific gene integration

Protein Knockdown
Cardiometabolic pathways

Programmable nucleases or base editors make deletions or change a single base to cause protein knockdown

Precision Corrections
Genetic disorders

Gene correction by single nucleotide changes delivered as RNA

Multiplex Editing
Cell therapy

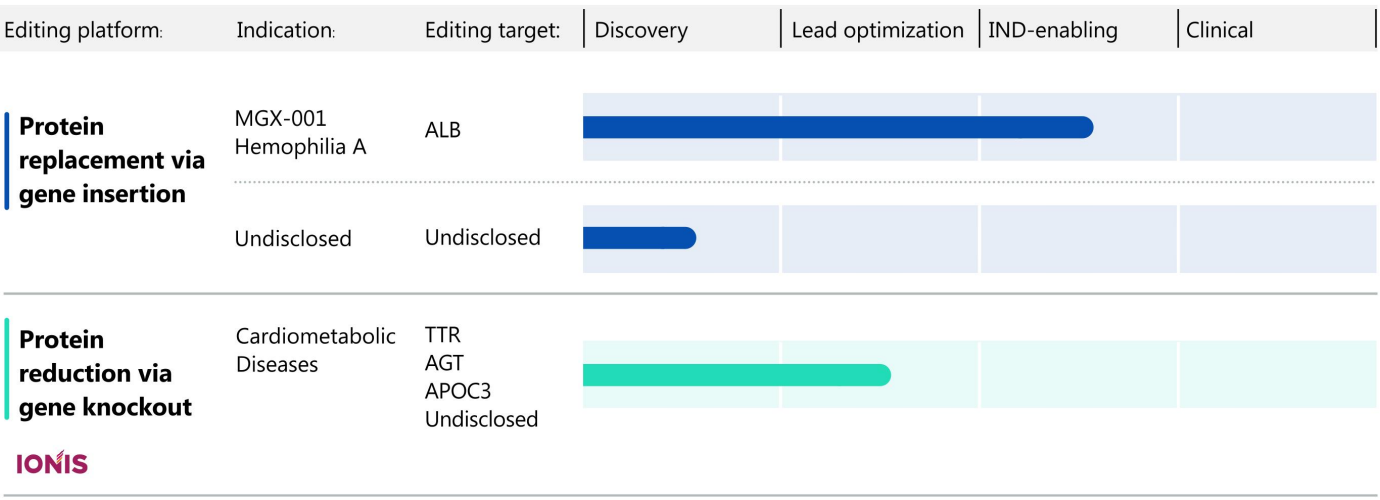
Simultaneous multiplexed base editing for protein knockdown and site-specific transgene insertion

Knockdown & Correction
CNS & muscle

Compact nucleases and base editors delivered by AAV to extrahepatic tissues

Potentially capable of correcting any type of genetic mutation found anywhere in the human genome

Focused pipeline anchored by differentiated gene editing technologies



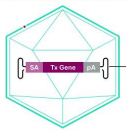
Metagenomi is exploring opportunities to pursue neuromuscular disease targets & liver disease targets such as A1AT and Wilson Disease, as well as business development to expand therapeutic applications including cell therapy.

MGX-001 - designed to deliver a durable, one-time curative therapeutic for hemophilia A

MGX-001: leveraging natural promoter to drive durable Factor VIII (FVIII) production

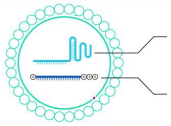
MGX-001 components:

AAV delivers donor DNA:



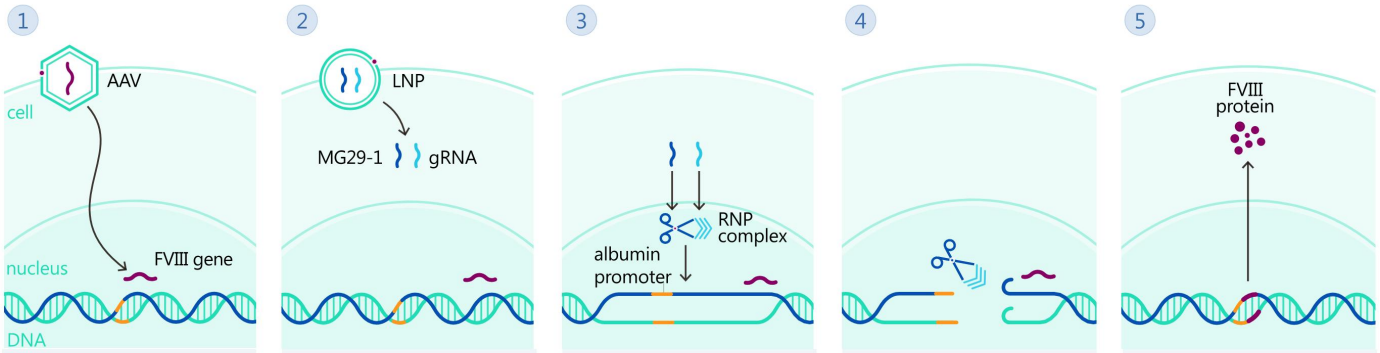
Promoterless FVIII gene

LNP delivers CRISPR nuclease mRNA & gRNA targeting albumin

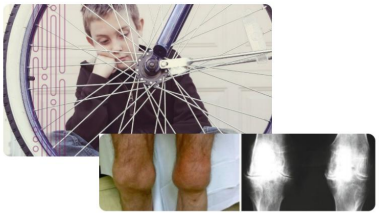


Guide RNA (gRNA)

Nuclease mRNA (MG29-1)



Hemophilia A: potentially life-threatening, blood-clotting disease with high treatment burden



Hemophilia A is caused by variety of mutations in the Factor VIII (FVIII) gene leading to loss of functional FVIII protein.

Lack of FVIII protein disrupts normal clotting cascade and increases bleeding. Repeated bleeding episodes in joints or soft tissues lead to progressive joint damage, inflammation and pain.

~500,000
patients worldwide[1]

~25,000
patients in the U.S.[2]

(~50% of patients severe; ~30% of patients moderate[3])

- **Initially targeting severe and subset of moderate hemophilia A patients**
- **Plan to initiate with adult patients and expand to adolescent and pediatric patients**

Hemophilia A is the most common X-linked inherited and de novo bleeding disorder, largely affecting males

1 - Stonebraker, J. S., et al, 2010. Haemophilia. Vol. 16, pp. 20–32
2 - CDC Surveillance 2024
3 - World Federation of Hemophilia Bleeding Disorders Registry, 2023

Hemophilia A unmet needs: high treatment burden and lack of durable cure

Current Standard of Care:

Factor VIII replacement therapy

- IV typically dosed 1 - 3 times/week, significant adherence challenges
- Frequent infusions and short half-life lead to FVIII peaks and troughs
- Ongoing risks of breakthrough and micro bleeds resulting in cumulative joint damage

Non-factor bispecific "mimetic"

- SQ dosed 1, 2 or 4 weeks post loading, challenging FVIII monitoring
- Only ~10-15% FVIII-equivalent protection; require FVIII supplementation for serious injury or surgery
- Ongoing risks of breakthrough bleeds
- Risks of microbleeds and late-onset arthropathy unclear

Recently Withdrawn Gene Therapy:

- Unpredictable efficacy
- Lack of durability with declining FVIII
- Prolonged corticosteroid use
- Not suitable for pediatric patients

Annual treatment cost[1]:

~$565K - $750K

Lifetime treatment cost[2]:

~$18M - $24M

1 - ICER. Gene Therapy for Hemophilia B and A: Final Evidence Report. Dec 22, 2022.
2 - Curtis R., et al. Poster presented at: 65th ASH Annual Meeting & Exposition; December 11, 2023; San Diego, CA.

Genome editing offers a potentially curative approach for hemophilia A

Hemophilia A represents clear opportunity for a curative treatment:

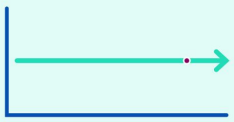
- Monogenic and well-characterized biology with clear biomarker
- Clearly defined target threshold of curative FVIII level & wide safety range
- Robust preclinical models and regulatory familiarity
- Strong advocacy and infrastructure

MGX-001 seeks to provide precise gene editing and direct integration into chromosome:

Technology:

Site-specific large gene integration

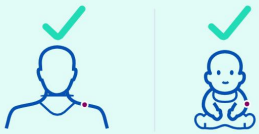
Durability:



Regulatory status:

IND-enabling stage

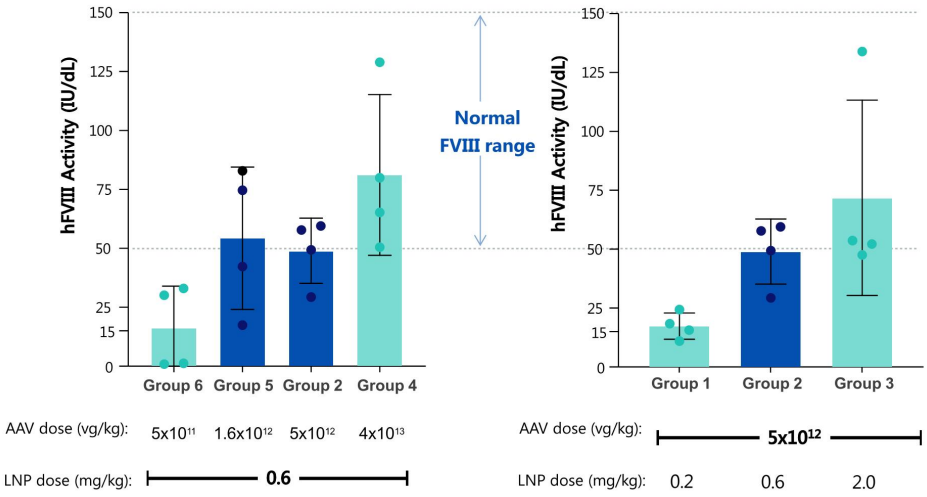
Pediatric potential:



MGX-001 is a potentially durable, curative approach for patients – the pediatric population has the most to gain

Curative FVIII range achieved in preclinical model

Development candidate



FVIII activity for each animals is the mean of values on d5, d8, d11 post LNP dosing measured with a capture-chromogenic assay. hFVIII activity was stable from d5 to d11 post LNP. Xyntha was used for the standard curve.

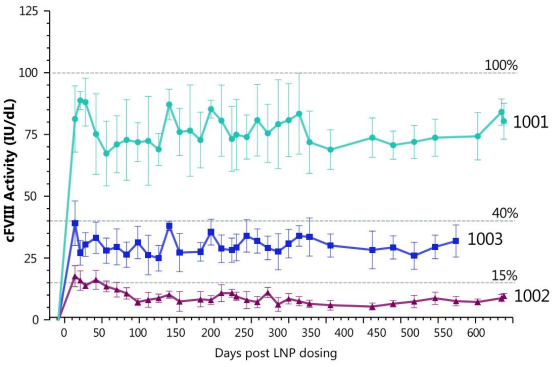
Dose range finding study in NHP:

- Confirmed clear dose-response relationship
- Identified minimal / optimal doses
- Achieved FVIII activity in normal range

Durable FVIII expression demonstrated ~19 months

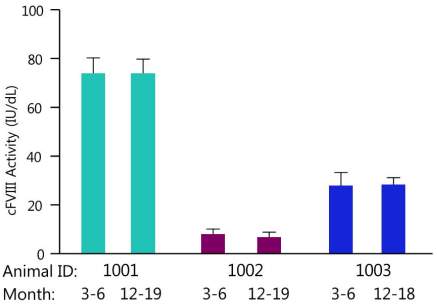
Pre-development candidate

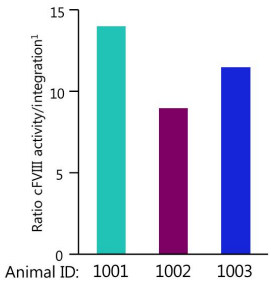
cFVIII NHP durability study: Stable expression over ~19 months



Cynomolgus FVIII (cFVIII) activity values are the mean and standard deviation of at least three independent assay runs with each sample run in at least duplicate in each assay.
Animal 1003 died on day 540 (17.8 mo) post LNP, assessed as unrelated to the treatment.

Plasma cFVIII activity levels unchanged between 3-6 months and 12-19 months and correlate to integration





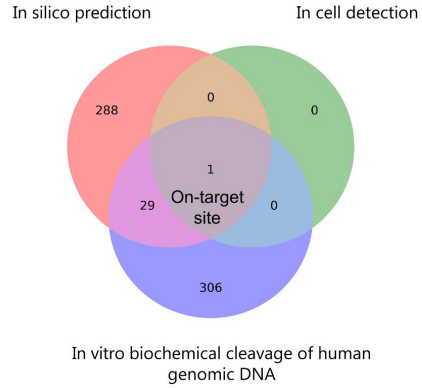
1 - Integration in forward orientation (copies per 100 haploid genomes, average of 5 liver lobes).

Off-target evaluation confirmed gene editing safety profile

Development candidate

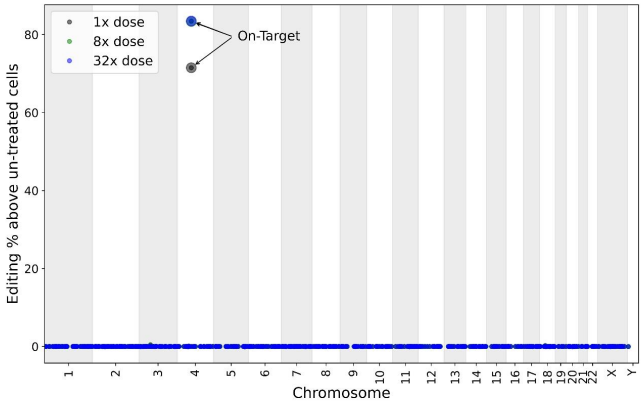
Discovery of potential off-target sites

Identified 623 potential off-target editing sites using industry standard orthogonal methods



Evaluation of potential off-target sites

Tested 623 potential sites in PHH from 3 human donors edited with 3 doses (1x, 8x, 32x) of MGX-001



No off-target edits identified in PHH at any dose, including super-saturating doses far exceeding the therapeutic dose

Abbreviations:
PHH = Primary Human Hepatocytes
1 x dose = dose that results in 90% of maximal on-target editing (EC90)
32 x dose = 32 x EC90

Compelling preclinical profile achieved across efficacy, durability, and safety

Novel mechanism of action integrates gene directly into chromosome

- FVIII integration leveraging albumin promoter to achieve **rapid onset of normal FVIII activity level**
- Lower dose of promoterless AAV designed to deliver **safety advantage over traditional gene therapy**
- Precise FVIII integration facilitated by **proprietary CRISPR gene edit**

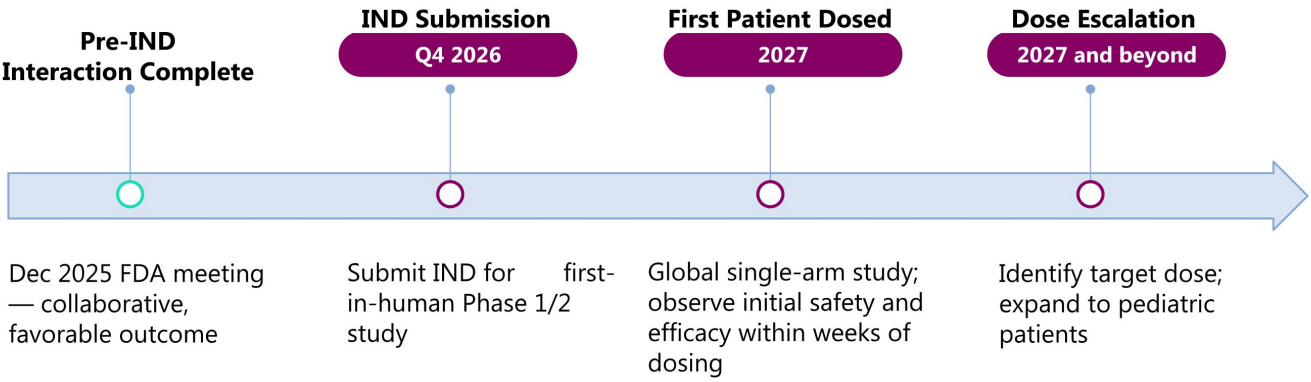
Extensive and supportive preclinical data set in NHPs

- FVIII activity achieved in **curative range with clear dose response**
- **Durable FVIII activity** over approximately 19-month study
- **Encouraging safety profile** with minimal corticosteroids and no genotoxicity observed

Compelling potential clinical profile

- Enables **endogenous production** of FVIII supporting hemostatic regulation
- Potential to normalize FVIII levels and deliver **meaningful clinical benefit for both adults and pediatric patients**
- Goal to be one-time durable cure allowing patients the freedom of a **hemophilia free mind**

MGX-001 development roadmap to clinic



Dec 2025 FDA meeting — collaborative, favorable outcome

Submit IND for first-in-human Phase 1/2 study

Global single-arm study; observe initial safety and efficacy within weeks of dosing

Identify target dose; expand to pediatric patients

Goal: To develop a durable, one-time curative therapeutic

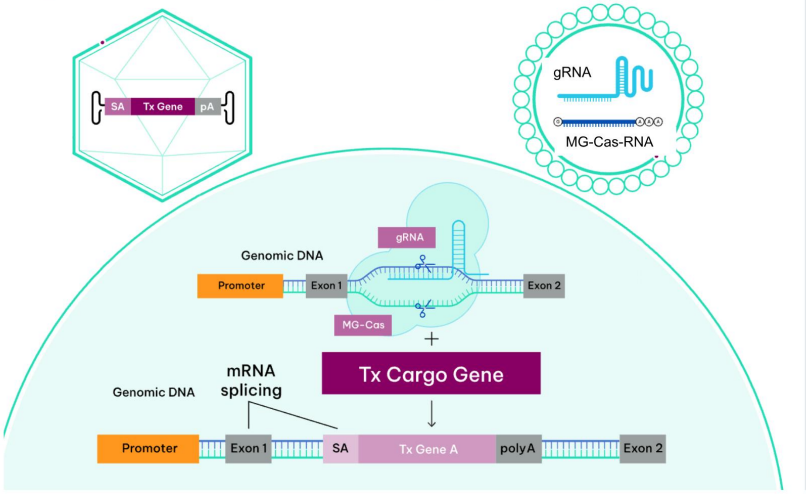
Broaden therapeutic potential with transformative gene editing

Leverage site-specific large gene integration across additional indications

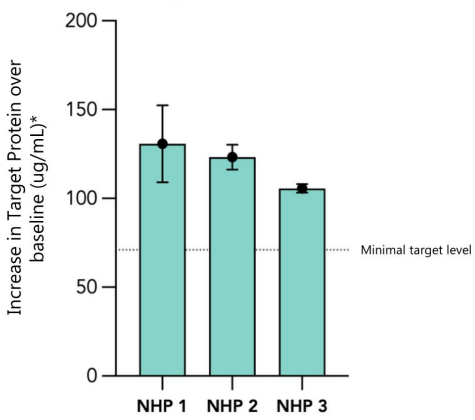
Potential to substitute therapeutic transgene delivered by MGX-001 system to address additional diseases

AAV delivers Transgene (donor DNA)

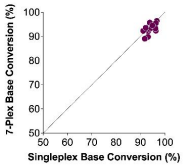
LNP delivers nuclease mRNA and guide targeting albumin site



Achieved normal circulating levels of target protein in an additional disease

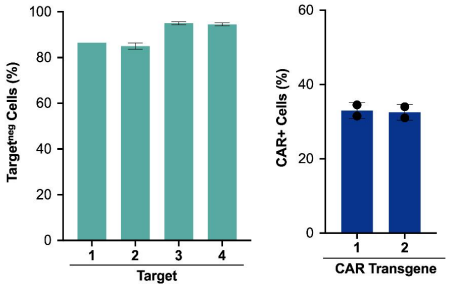


Multiplex editing and compact editors enable next-generation therapies

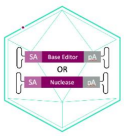


Multiplex editing in T-cells achieved across seven unique gene targets at as high efficiency as single plex editing

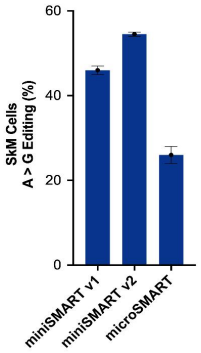
Combined protein knockdown and CAR knock-in in a single-step for cell therapy applications



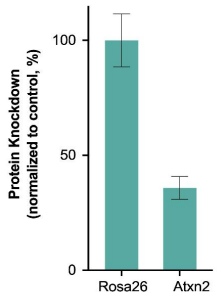
Four-plex knockdown and dual CAR knock-in in T cells with MGABE100 + 5 gRNA + DNA CAR template[1]



Compact nucleases and base editors demonstrated high editing efficiency and compatibility with AAV for extrahepatic delivery[2,3]



Multiple compact base editors[2] demonstrated effective neuromuscular targeting



Compact nuclease MG119-28 achieved 64% knockdown of ATXN2 protein in mouse brain[4]

1. van Overbeek, M., et al, Presentation at 10th Annual CAR TCR Summit, 2025
2. Rallapalli, R., et al, Submitted, 2026
3. Guan, K., et al, Nature Structural and Molecular Biology, 2026
4. Senger, K., et al, Poster presented at ASGCT Annual Meeting, 2025

Strategic partnership for protein knockdown programs expands reach into large cardiometabolic markets

Current indications:

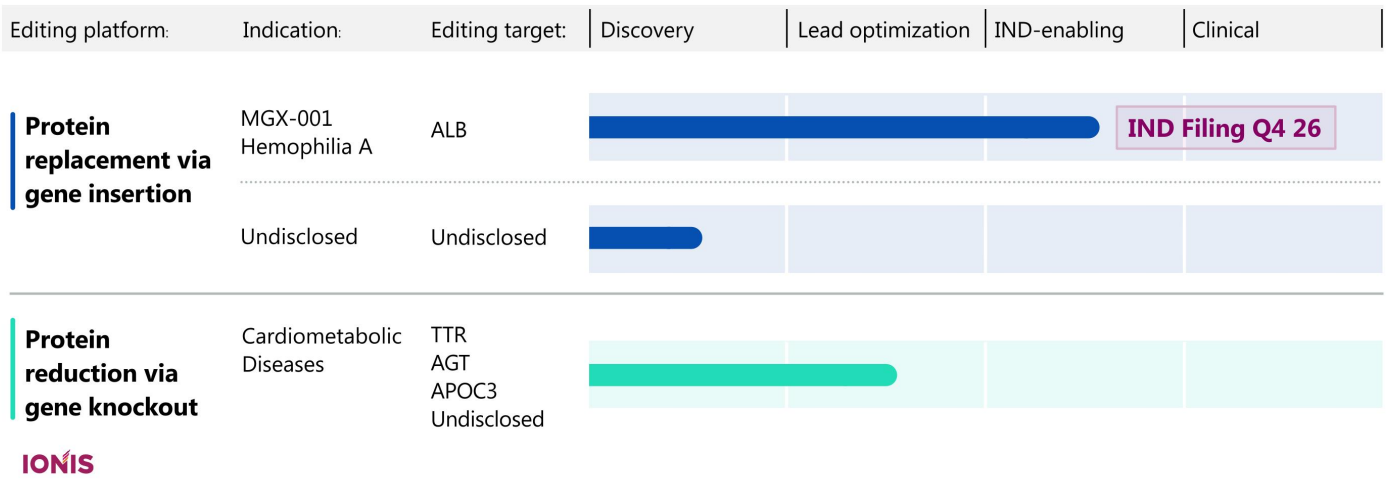
- **TTR**
- **AGT**
- **APOC3**
- **Undisclosed**

IONIS

- MGX's in vivo genome editing complements Ionis leadership in cardiometabolic space
- 4 targets: two co-development and co-commercialization options
- Multibillion dollar TAM[1]

1. TAM = Total Addressable Marked

Metagenomi pipeline and expected updates



Metagenomi is exploring opportunities to pursue neuromuscular disease targets & liver disease targets such as A1AT and Wilson Disease, as well as business development to expand therapeutic applications including cell therapy.

Thank you

Metagenomi®
THERAPEUTICS