

Creating A **Transgenic** Mouse Model Over Expressing A Gene.

TRADITIONAL ROUTE

6-12 MONTHS



Founder mice
(F0) generation



Screening for transgene
integration by genotyping



Transfer injected fertilized
eggs back into mice



Inject fertilized
egg with plasmid



Harvest the fertilized
egg of female mice



Mating of Mice



Plasmid design and
gene preparation

AAV ROUTE

2-6 WEEKS



Design, Clone and
Prepare Plasmid



AAV Packaging
& Purification



Single Injection

How AAV
can speed up your
research and development?

We Help You Accelerate Your Research From Discovery To Clinic.

Case Study

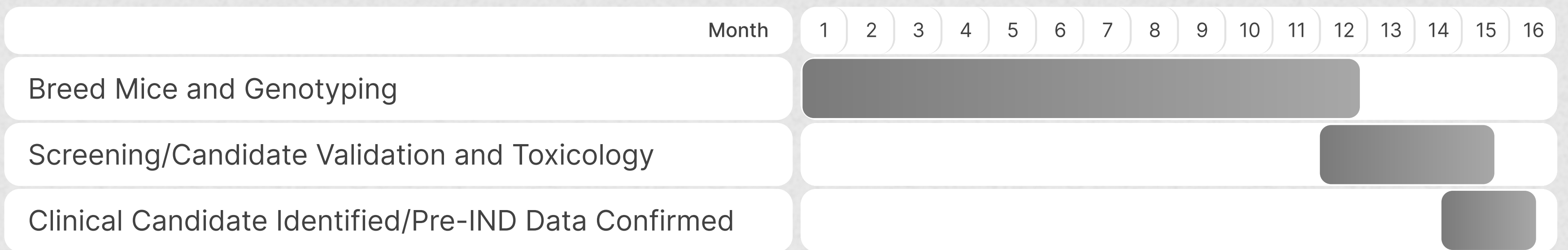
A clinical-stage biotech company needed to develop a small molecule-based therapy to treat kidney disease. Traditionally, this would require creating transgenic mice expressing the human gene of their target, a process that takes 6 to 12 months. Instead, the company chose to use AAV to deliver the human gene into mice directly as the replacement for transgenic mouse model.

Vector Biolabs helped by constructing and producing AAV stocks, which were injected directly into the mice. This allowed the company to screen their small molecule library in vivo within weeks, saving 6 to 12 months of development time.

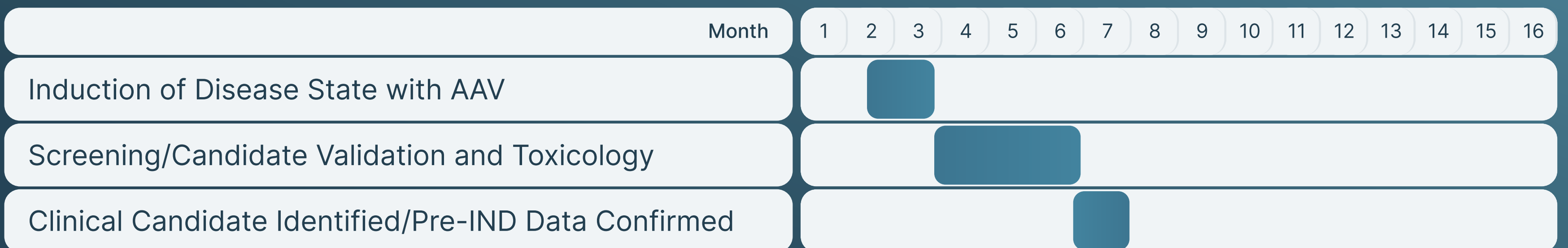
The best candidate from the screen is now in Phase 1 clinical trials.



Traditional Approach



Novel approach using Vector Biolabs® AAV



85%
Reduction
in study time

Estimated to be
25k+ in savings
per study

Sustainability
Of Disease
Models

Tailored
Specificity
& Reduced off
Target Expression

