

A close-up photograph of a petri dish held in a gloved hand. The dish contains a yellowish agar medium with numerous bacterial colonies of varying sizes and colors, including red, orange, and yellow. The background is a dark, gradient grey.

The **Taconic-Cyagen** Academic Model Generation Alliance

TruIMPORT™

Three Unique Options to Address Any Challenge to Importing Your New Genetically Engineered Model

The Taconic-Cyagen Academic Model Generation Alliance (The Alliance) redefines what non-profit researchers can come to expect from a model generation service provider and partner. The Alliance gives researchers access to a full catalog of cost-effective and guaranteed custom model generation services. With the introduction of TruIMPORT™, The Alliance removes concerns with importing your model into your home facility. We are certain that among the three TruIMPORT™ options is a solution to meet the animal health standards of your home facility.

We encourage you to share this material with your veterinarian and vivarium manager so that they may assist you in selecting the TruIMPORT™ option that best fits the need of your home facility.



TruIMPORT™ Options At A Glance

- ▶ Taconic has completed an extensive audit of Cyagen’s facilities and processes.
- ▶ Project animals are shipped from Cyagen to Taconic by air.
- ▶ TruIMPORT™ delivery options are built upon Taconic’s foundation of providing the highest quality laboratory animals for over six decades to help ensure importation with minimal need for quarantine.

RapidRELAY™
Deliverable: Original cohort
Animal Health: Cyagen Select Pathogen Free health status
Shipping: Shipping fees not included
Timeline: 2 weeks

RapidCHECK™
Deliverable: Original cohort
Animal Health: Cyagen Select Pathogen Free health status
Shipping: Shipping fees included
Timeline: 7 weeks

RapidEXPANSION™
Deliverable: Rederived, age matched cohort
Animal Health: Taconic IHMS™ health standard
Shipping: Shipping fees included
Timeline: 14 weeks

Which Importation Method Is Right For You

Considerations and Benefits	RapidRELAY™	RapidCHECK™	RapidEXPANSION™
Animals are unpacked and reviewed by Taconic’s trained technicians upon arrival from Cyagen	●	●	●
Includes a health report from Cyagen only prior to shipment to US	●		
Allows import of animals within 3 weeks of arrival from Cyagen	●		
Animal health report is reviewed by Taconic veterinarian		●	●
Includes a health monitoring report on animals post-arrival from Cyagen		●	●
Removes the need for quarantine at customer’s home facility* (please refer to health testing and exclusion list)		●	●
Excludes all bacterial, viral and parasitic pathogens* (please refer to health testing and exclusion list)			●
Provides opportunity to expand the number of animals in model generation deliverable			●
Provides age matched cohorts			●
Eligible for shipment on a Taconic fleet truck			●
Eligible for downstream breeding in a Taconic barrier			●
Guaranteed exclusion of MKPV			●

TruIMPORT™ Health Testing and Exclusions

TruIMPORT™ provides various options for exclusion, tolerance, and testing of various pathogens. Depending on the requirements of your facility, one option may be more appropriate to ensure your animals are delivered without the need or added costs of quarantine. We recommend you review the following table with your vet to ensure easy importation of your animals.



RapidCHECK™ animals arrive at Taconic's IBS facility and are sequestered to a dedicated environment. Once unpacked, animals are housed in an Individually Ventilated Cage (IVC) system.



PCR and serology samples collected and sent for testing.

- ▶ Serology: blood samples from contact sentinel
- ▶ PCR: fur swab, fur pluck, and fecal pellet samples from contact sentinel



TOTAL TIME: 7 WEEKS



Health monitoring reports are reviewed and approved by a Taconic veterinarian.



Health monitoring reports are provided to customer prior to shipment.



Animals shipped to customer in a Taconic Transit Cage™ (TTC™).

	RapidRELAY™	RapidCHECK™	RapidEXPANSION™
VIRUSES			
Ectromelia Virus	●	●	●
Hantaan Virus	●	●	●
K Virus	●	●	●
Lactate Dehydrogenase Elevating Virus (LDHV)	●	●	●
Lymphocytic Choriomeningitis Virus (LCM)	●	●	●
Minute Virus of Mice (MVM)	●	●	●
Mouse Adenovirus I and II (FL and K87)	●	●	●
Mouse Cytomegalovirus (MCMV)	●	●	●
Mouse Encephalomyelitis Virus (GDVII)/Rat Theilovirus (RTV)	●	●	●
Mouse Hepatitis Virus (MHV)	●	●	●
Mouse Kidney Parvovirus (MKPV)	●	●	●
Mouse Parvovirus (MPV)	●	●	●
Mouse Rotavirus (EDIM)	●	●	●
Murine Norovirus (MNV)	●	●	●
Pneumonia Virus of Mice (PVM)	●	●	●
Polyoma Virus	●	●	●
Reovirus 3 (Reo 3)	●	●	●
Sendai Virus	●	●	●
Thymic Virus (MTV)	●	●	●
Beta hemolytic Streptococcus (non-Group D)	●	●	●
Bordetella bronchiseptica	●	●	●
Cilia Associated Respiratory Bacillus (CARB)	●	●	●
Citrobacter rodentium	●	●	●
Clostridium piliforme	●	●	●
Corynebacterium bovis	●	●	●
Corynebacterium kutscheri	●	●	●
Helicobacter spp.	●	●	●
BACTERIA			
Klebsiella oxytoca	●	●	●
Klebsiella pneumoniae	●	●	●
Mycoplasma pulmonis	●	●	●
Pasteurella multocida	●	●	●
Pasteurella pneumotropica (Heyl; Jawetz)	●	●	●
Proteus spp.	●	●	●
Pseudomonas aeruginosa	●	●	●
Salmonella spp.	●	●	●
Segmented Filamentous Bacteria	●	●	●
Staphylococcus aureus	●	●	●
Streptobacillus moniliformis	●	●	●
Streptococcus pneumoniae	●	●	●
PARASITES/FUNGI			
Encephalitozoon cuniculi	●	●	●
Entamoeba spp.	●	●	●
Giardia muris	●	●	●
Furmites	●	●	●
Pneumocystis murina	●	●	●
Tapeworms	●	●	●
Spironucleus muris	●	●	●
Pinworms	●	●	●
Trichomonads	●	●	●
Staphylococcus aureus	●	●	●
Streptobacillus moniliformis	●	●	●
Streptococcus pneumoniae	●	●	●
Syphacia spp.	●	●	●
Thymic Virus (MTV)	●	●	●
Trichomonads	●	●	●

● Organism Excluded ● Organism Tolerated ● No Testing Performed

Model Generation Benefits of The Alliance

Progressive Approach to Customer Service & Implementation



FAST PROJECT SCOPING

With AI powered project strategies available as quickly as two business days, The Alliance minimizes the delay to having a quote and strategy in hand.



COST EFFECTIVE, GUARANTEED MODEL GENERATION

The Alliance provides researchers with the value needed to maximize research budgets while still delivering the critical models needed to facilitate discovery, with the added confidence of a guaranteed project deliverable.



COMPREHENSIVE CAPABILITIES

The Alliance provides your research with the most comprehensive toolkit available: CRISPR, transgenic, PiggyBac, ESC based homologous recombination, and more; the only limit is the scope of your study.



FLEXIBLE DELIVERY OPTIONS

With a variety of delivery and rederivation options, The Alliance is equipped to rapidly deliver your model to your vivarium.*



ACCESS TO ACCELERATED TIMELINES*

With the ability to rapidly generate age matched cohorts of 20-40+ animals at any Taconic health standard, The Alliance can drastically reduce time spent on traditional breeding.

*Rederived animals are generated at an Excluded Flora (EF), Taconic health standard which is accepted without quarantine by most institutions. Please consult with your facility veterinarian to ensure the best method of delivery.

World-renowned for its consultative approach to complex animal model generation, Taconic Biosciences partners with researchers to provide the best solutions for the creation and supply of novel genetically engineered models by leveraging the most comprehensive, fully licensed gene modification toolkit in the industry. Cyagen Biosciences utilizes a highly efficient process, including its proprietary AI technology, to design and deliver novel genetically engineered models with precision and competitive pricing. As partners, Taconic and Cyagen leverage the power of our complementary approaches to redefine the model generation customer experience by bringing the best and most competitive solutions to the market.

There are no limits to your imagination and success—time, funding, or risk. With access to Taconic's expertise, quality, and flexibility, now combined with Cyagen's speed, efficiency, and economical business model, our team will guide you through the process to the best technical solution, service level, and deliverable for your study.

Need Help Choosing the Right Delivery Method?

Request a consultation with a Taconic Model Design Specialist today and let our problem-solving approach go to work for you. Our experts can discuss each method in detail with your veterinarian or facility manager and help determine the most effective method of delivery.

Get in touch for more information about our products and services.
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