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What you need to know about pre-validated

shRNA

Save time, cut costs, and optimize conditions for desired experimental outcomes with trusted sequences.

LEARN MORE →

Why pre-validated shRNA? →

Pre-Validated shRNA

Why it matters

Not all shRNAs are equal
Some fail to silence their target

Weak/inconsistent results
Outcomes vary run-to-run

Wastes time & resources
Repeated experiments add costs

70%

of shRNA experiments fail to deliver expected results

Pre-validated shRNA gives you tested, proven sequences that deliver efficient gene knockdown.

CLEAR PROVEN REPRODUCIBLE

Explore key benefits →

Key benefits

Reliability
- Pre-validated shRNA clones come directly from the RNAi Consortium (TRC), a world-class effort led by the Broad Institute
- Customers can trust that each sequence is well-designed and mapped to the target transcript

Proven Perfomance
- Each clone has been functionally validated under a U6 promoter in mammalian cells
- Customers avoid the trial-and-error of testing uncharacterized shRNA

Scalability & Reproducibility
- TRC clones are standardized and widely used across research groups, ensuring results are comparable and reproducible

Time & Cost Savings
- Reduces wasted experiments on poorly performing shRNAs
- Accelerates project timelines by delivering knockdown tools that work the first time

Guaranteed Solutions
- If no TRC clone is reliable, VBL offers a custom shRNA design and validation service using a robust dual-luciferase assay (club/gLuc system)
- Customers receive shRNAs that optimize experimental success with knockdown of 70% mRNA level in the infected cells

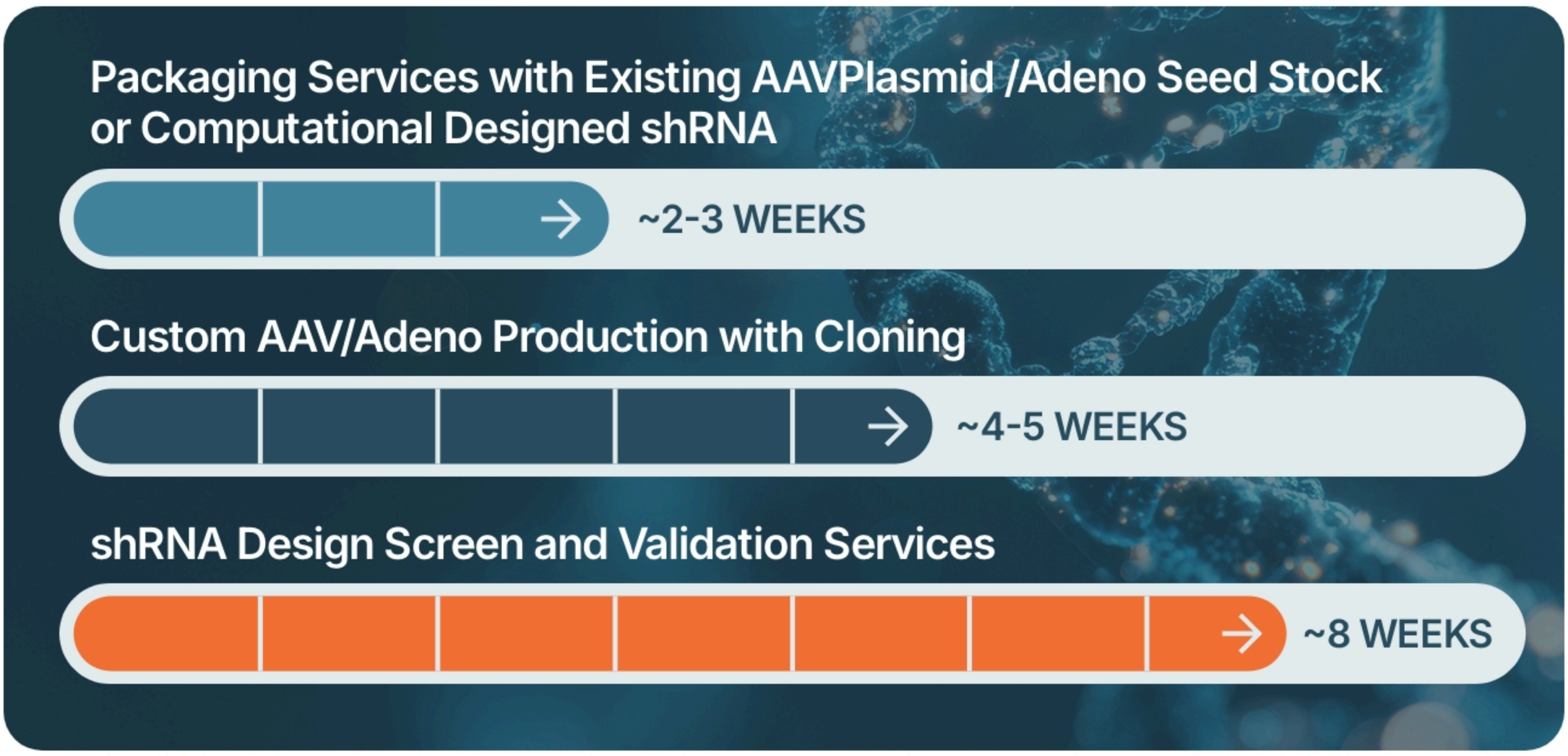
Basically, pre-validated shRNA provides confidence, efficiency, and reproducibility.

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Pre-Validated shRNA

Timelines & custom solutions

If a TRC clone is not available for your target, out team will design, screen, and validate new shRNA sequences using our robust dual-luciferase assay. Alternatively, you can use Computationally Designed shRNA for a rapid, low-cost candidate sequences. We algorithmically design and rank shRNA against your transcripts so you can quickly determine if a gene can be silenced.



We ensure minimal knockdown of 70% at mRNA level in the infected cells, ensuring your project success.

Visit us at **vectorbiolabs.com** to request a quote! →