



CHO.SET[®] Synthetic Promoters for Enhanced CHO Cell Productivity

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Smarter Vectors. Higher Titres. Improved Productivity. Faster Cell Pool Recovery & Accelerated Timelines.

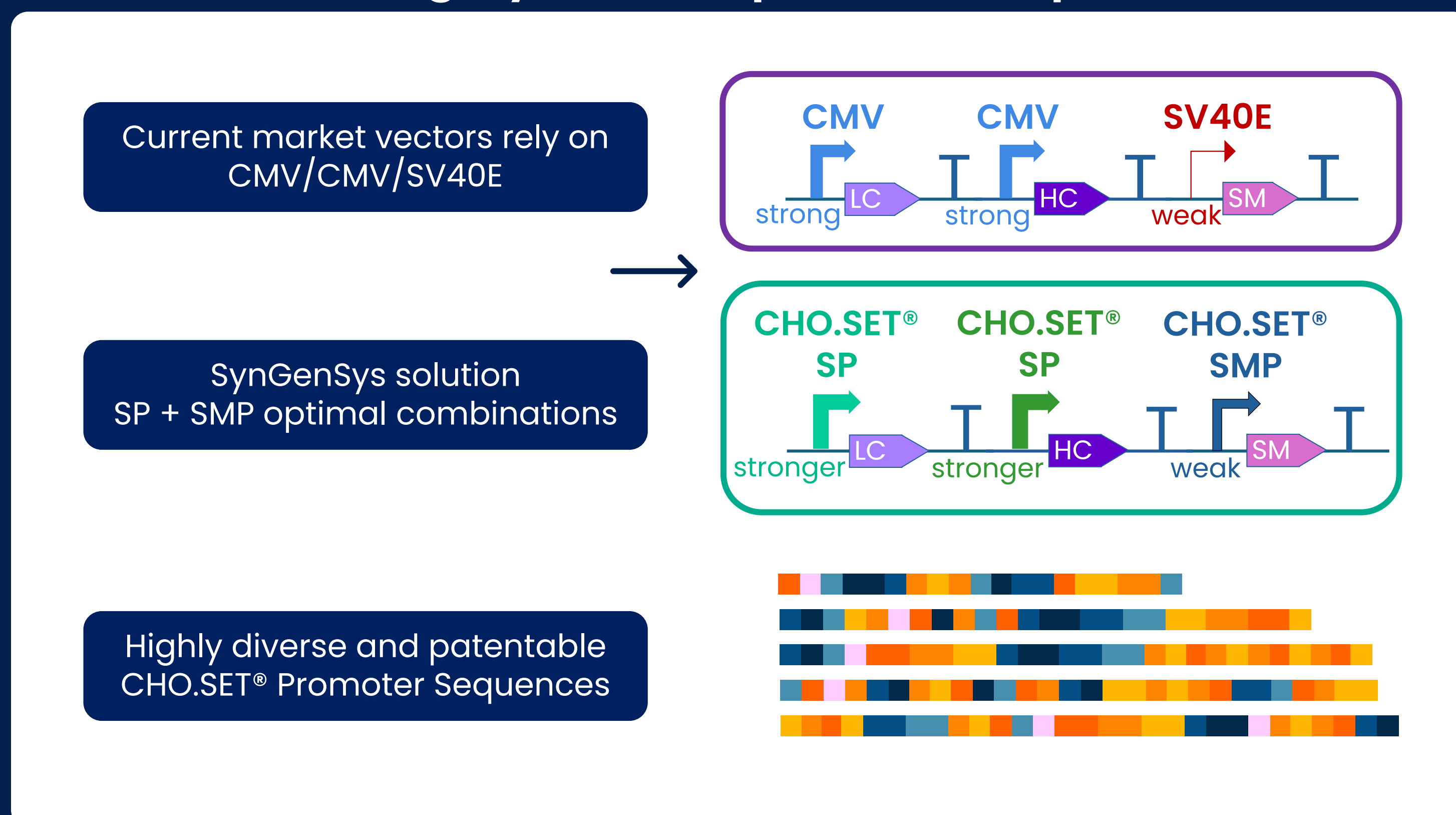
CHO.SET[®] Synthetic Promoters (SPs)

- Novel, patentable synthetic promoters generated specifically for CHO cells to improve protein production
- Created *de novo* by combining Sypher[™], our proprietary transcriptional analysis and sequence engineering platform, with empirical validation
- Designed to be broadly applicable across CHO expression systems
- Provide tuneable expression of transgenes whilst maximising host cell productivity

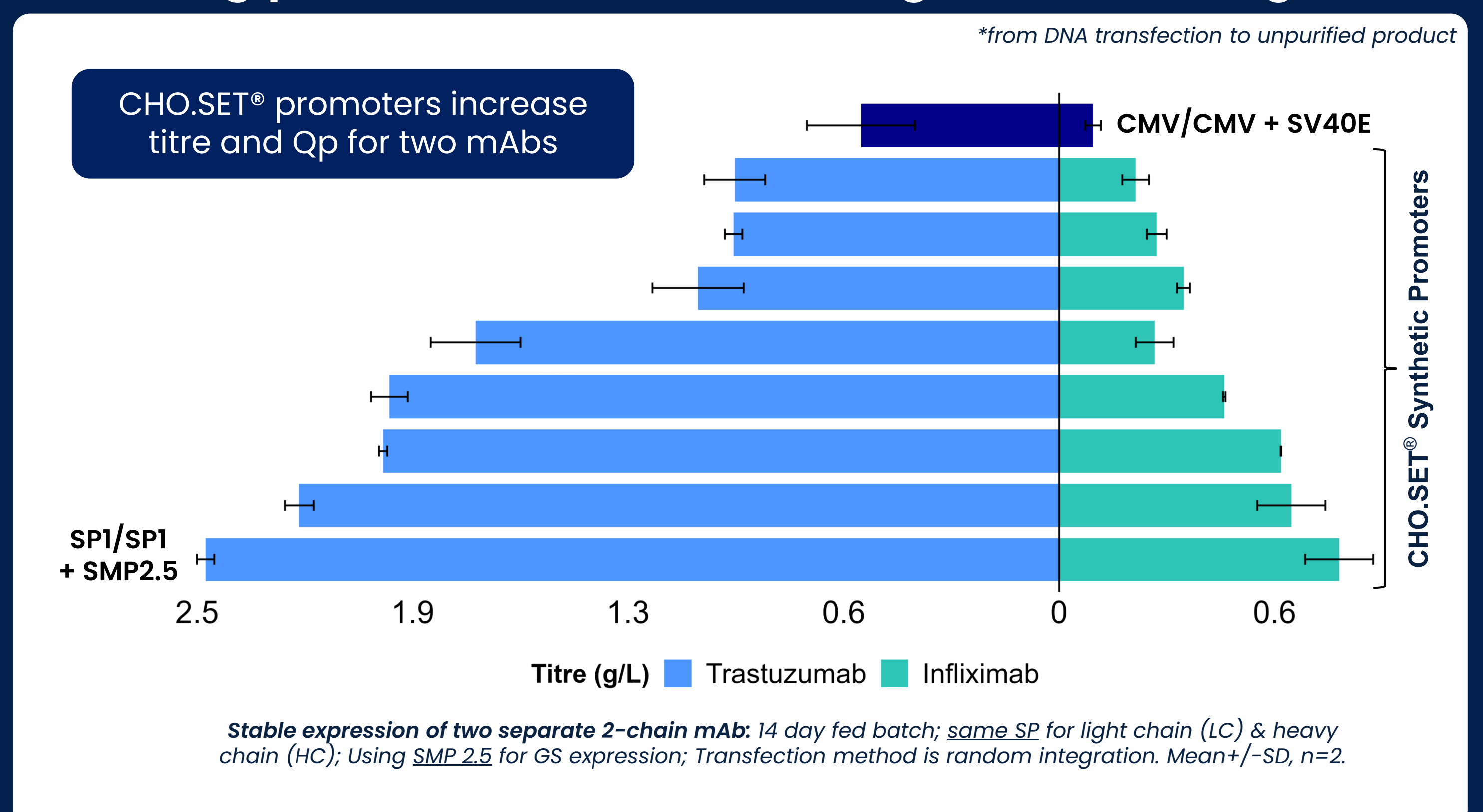
Benefits compared to standard industry vectors

- ✓ **Higher productivities:** Selected vectors achieved over 2–3x higher antibody productivity (>2 g/L)
- ✓ **Faster development timelines:** Engineered cell pools recovered >3 days faster
- ✓ **Process simplification:** High titres achieved without the use of MSX or transposon systems
- ✓ **Reduced costs:** Smaller batch sizes needed to produce material for early toxicity studies

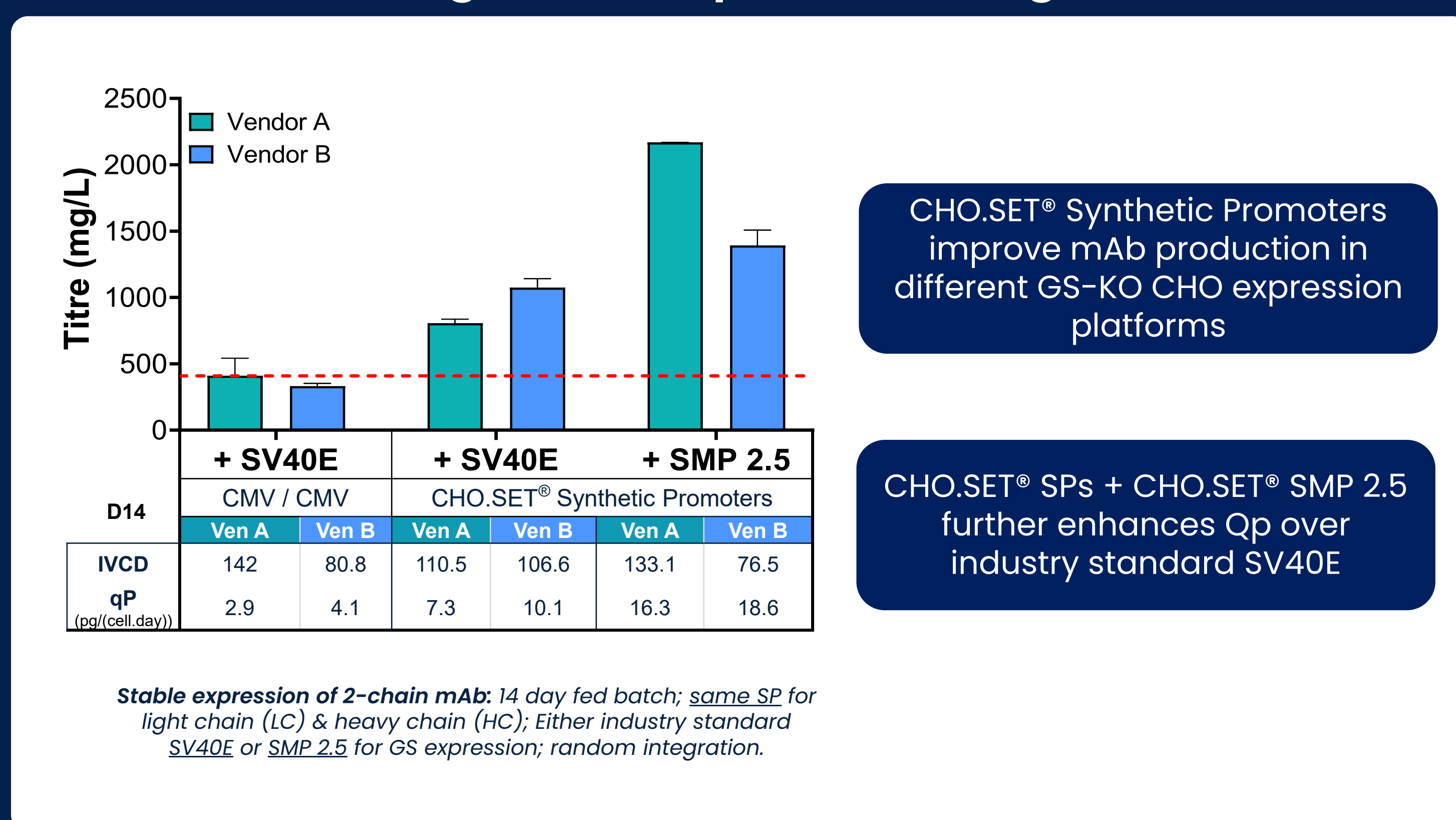
1. CHO.SET[®] – Highly diverse patentable promoters



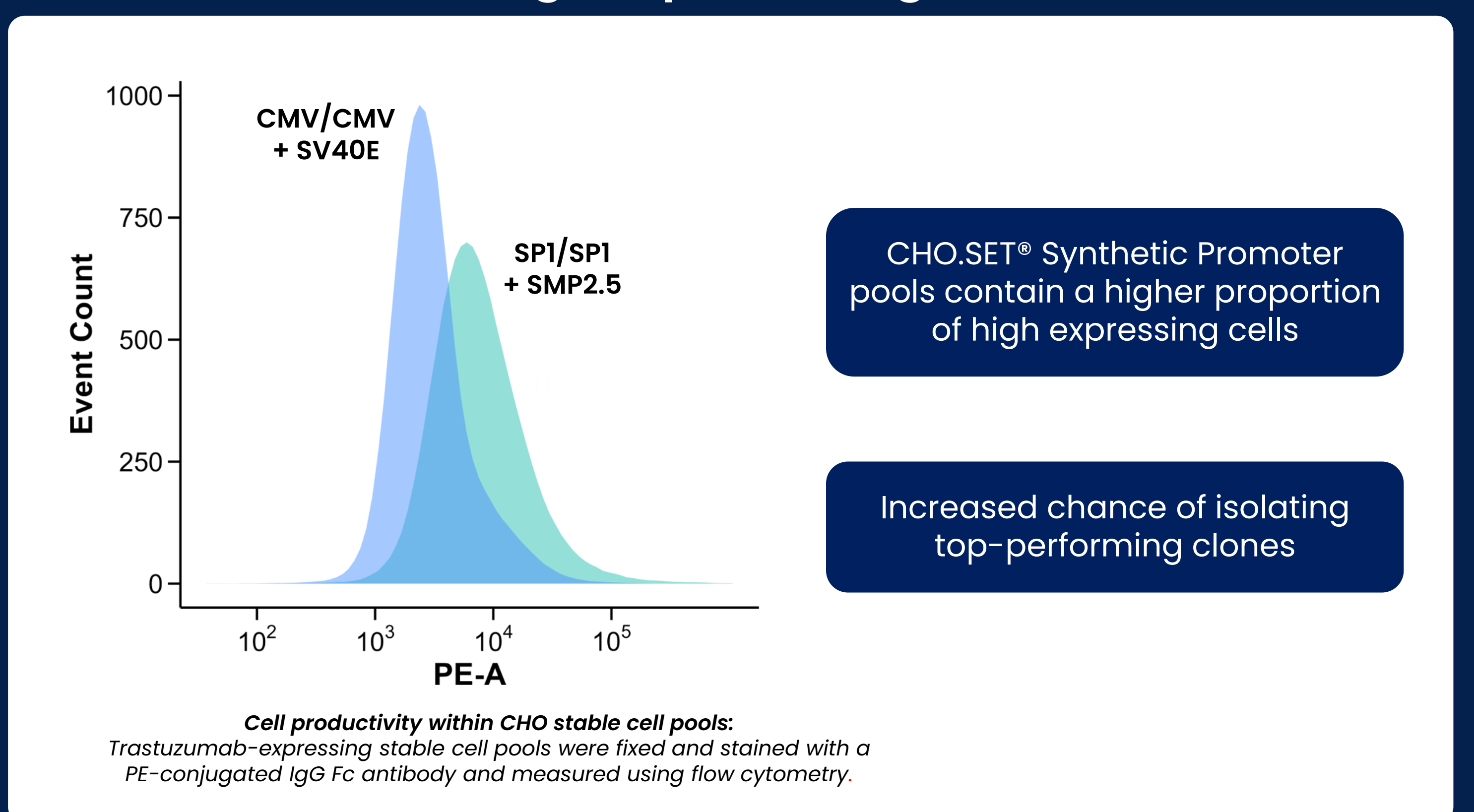
4. >100 g product in 5 weeks* using random integration



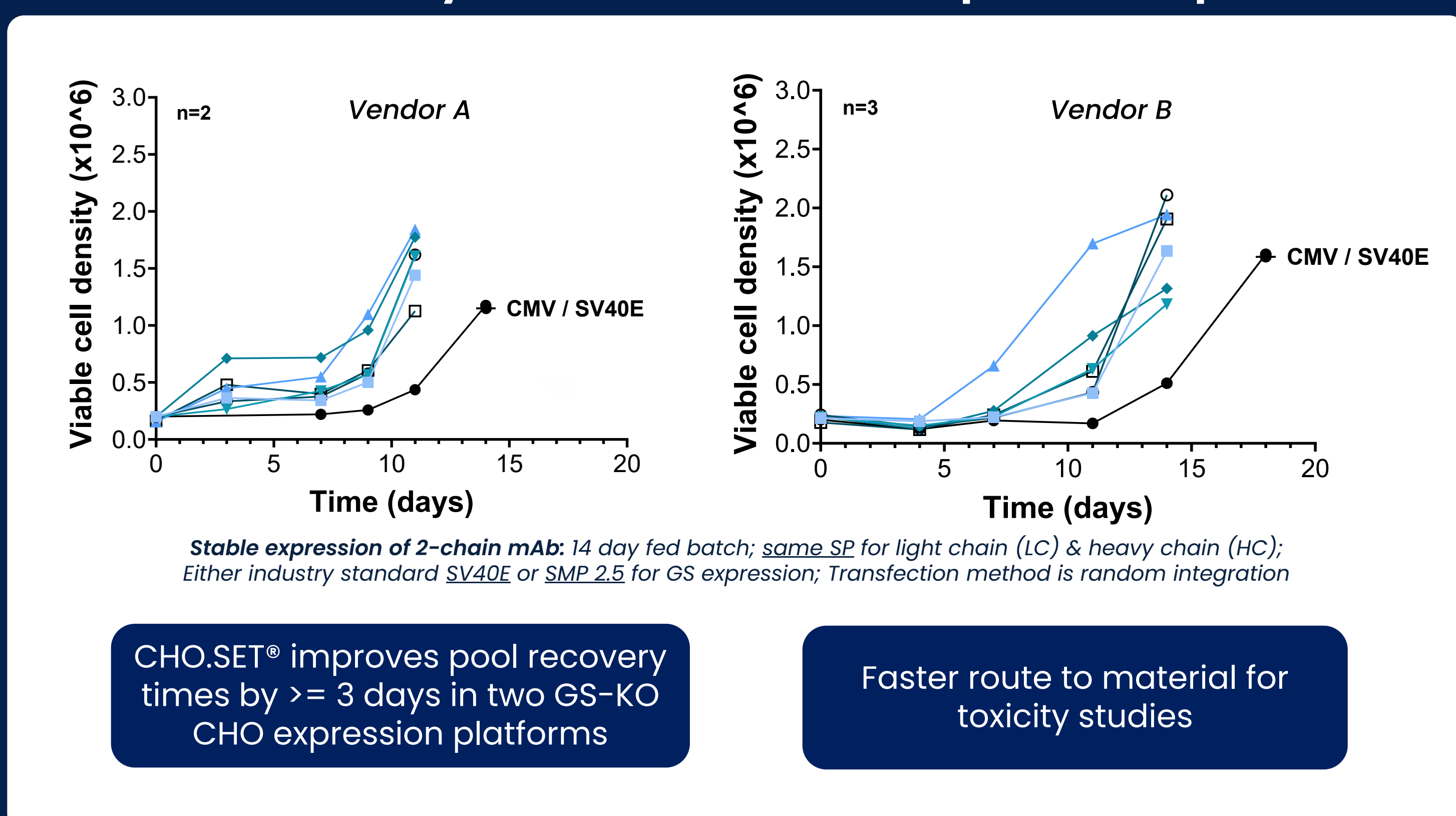
2. CHO.SET[®] configuration optimal for high titres



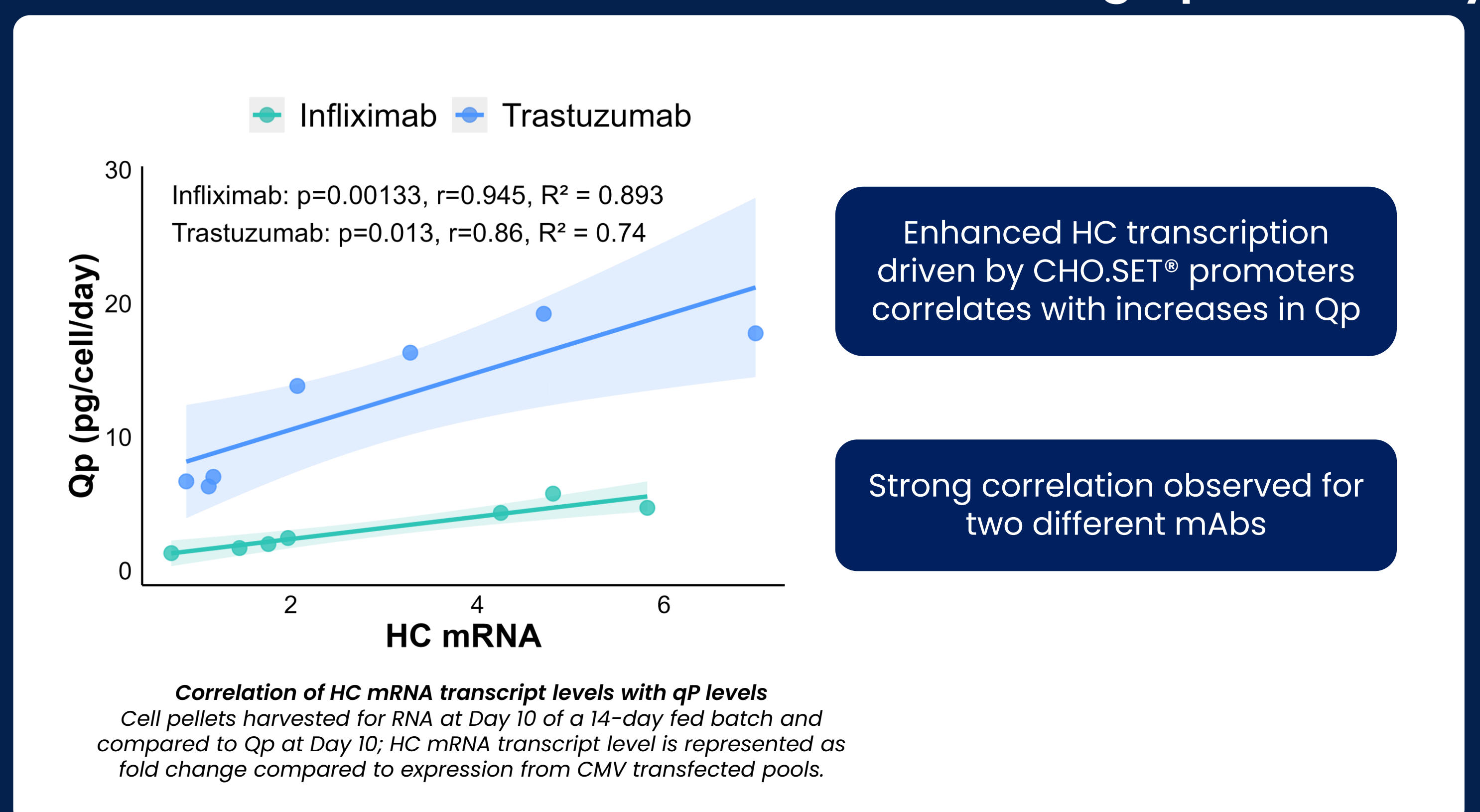
5. A shift towards higher producing cells



3. Faster recovery in different CHO expression platforms



6. Increased mRNA levels correlate with high productivity



For more information on any of our products or to learn how our technology can help you, contact us at enquiries@syngensys.com



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