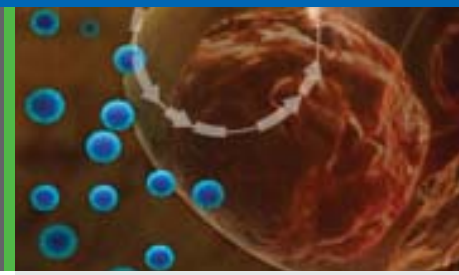
DATA SHEET

Lentiviral Technology

SparQ™ Cumate Switch

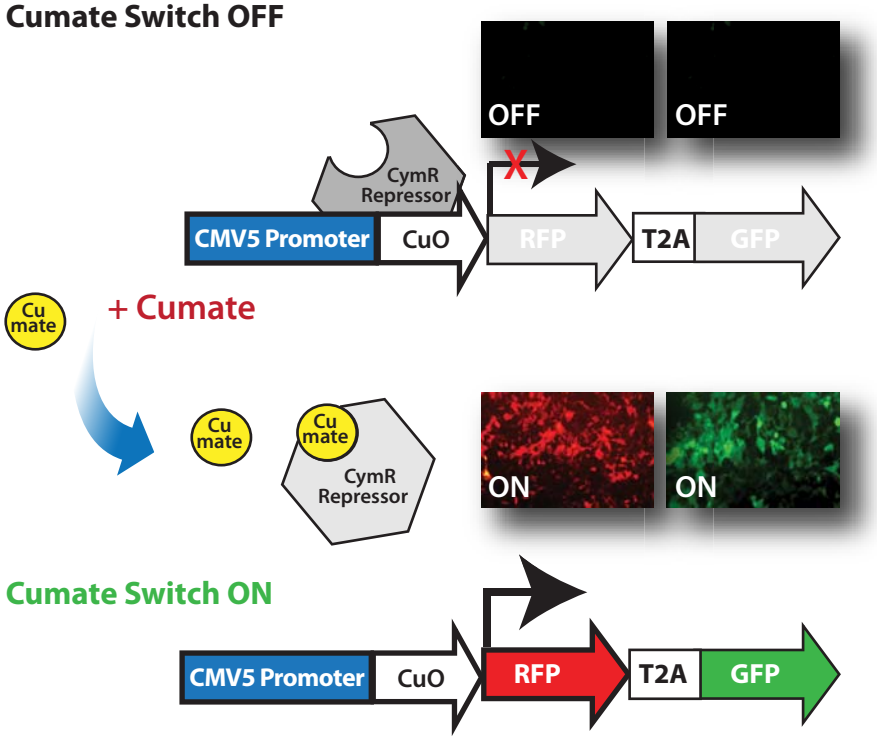
Next generation inducible expression technology in powerful lentivector formats



The Cumate Switch Inducible System

The SparQ™ cumate switch lentivectors work through virus transduction and deliver extremely tight control, robust induction and a highly titratable expression switch for inducible gene and microRNA expression studies. The system works through the CymR repressor that binds the cumate operator sequences (CuO) with high affinity. The repression is alleviated through the addition of Cumate, a non-toxic small molecule that binds to CymR. This system has a dynamic inducibility, can be finely tuned and is reversible and inducible over and over for timed expression studies.

Cumate Switch OFF

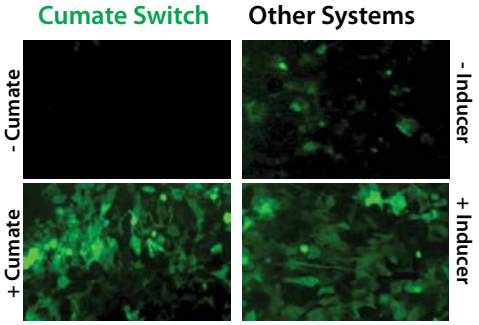


Cumate Switch ON

Highlights

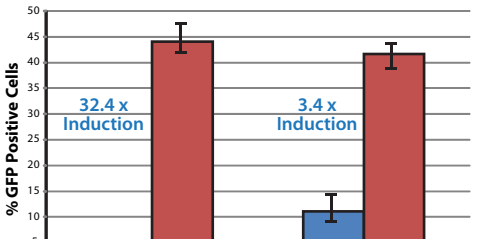
- Enhanced Cumate Operator (CuO) elements regulate the potent CMV5 promoter
- Extremely low background with robust Cumate-On induction
- Track induction with co-expressed RFP or GFP markers
- Easy to titrate level of induction with cumate solution
- Switch ON -> Turn OFF -> Switch ON again capabilities
- No special media or conditions required, plug and play system

Tight regulation of induction



Lower background than other inducible systems with robust induction

The SparQ cumate switch lentivectors feature low background with a higher induction rate of 32-fold when compared to other inducible systems. Zero leakiness with dynamic induction and titratability make the cumate switch system a better choice. A variety of SparQ inducible lentivector configurations and CymR formats are available to customize your induction experiments.



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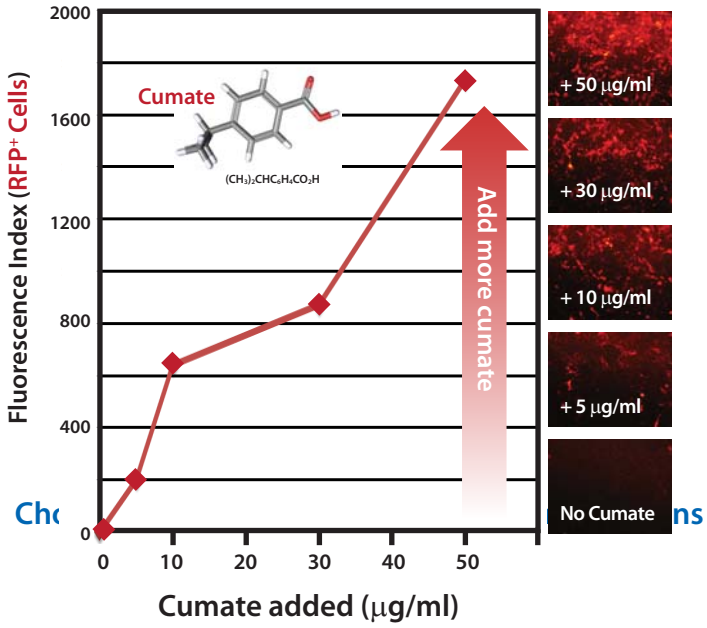
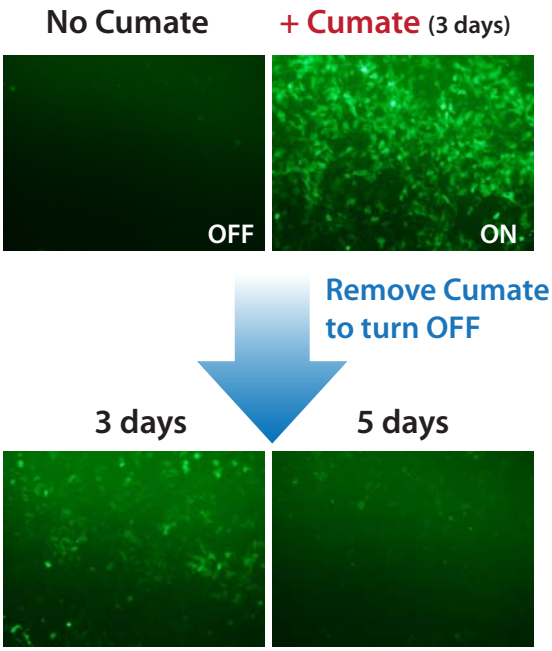
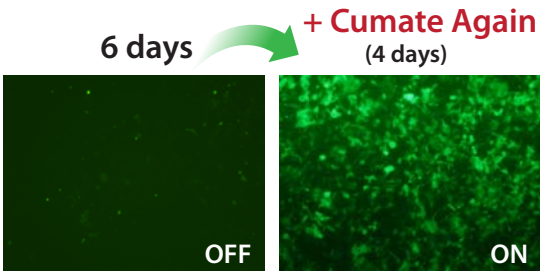
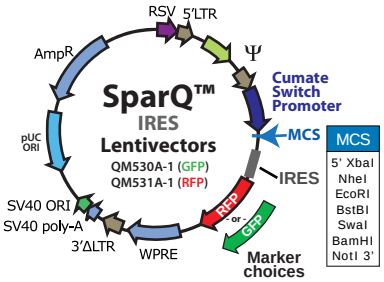
SparQ™ Cumate Switch Inducible Lentivector System

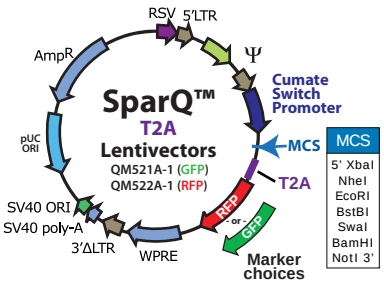
Dynamic Ability to Fine-tune Expression Induction



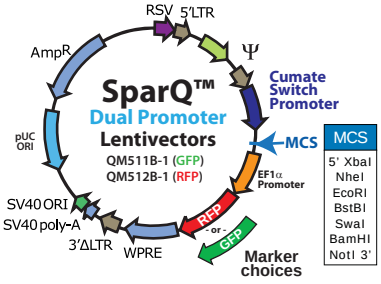






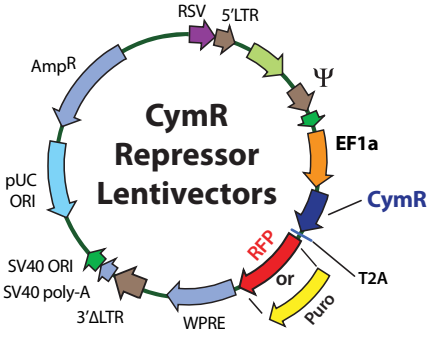


SPARQ
CUMATE SWITCH



Custom cumate switch lentivector constructs also available !

Select a CymR Format for your Studies



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