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

Cumate Switch ON

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.

www.systembio.com/lenti
SparQ™ Cumate Switch Inducible Lentivector System

Dynamic Ability to Fine-tune Expression Induction

Choose from a Variety of Inducible Configurations

Select a CymR Format for your Studies

Custom cumate switch lentivector constructs also available!

We Also Offer Custom Services

System Biosciences offers a wide-range of custom services to support your research, allowing you to spend less time making tools, and more time making discoveries. To learn more, visit our website at www.systembio.com/service or call us at 888-266-5066.