Multiple Lentiviral Expression (MuLE) System Kit

Description: The MuLE (Multiple Lentiviral Expression) system facilitates the simultaneous introduction of multiple genetic alterations into mammalian cells. The MuLE system allows simple and rapid MultiSite Gateway recombination-based cloning of complex polycistronic lentiviruses containing up to five different genetic expression elements. These vectors can induce combinatorial constitutive or inducible gene overexpression, knockdown (shRNA, miR-30-shRNA), mutation/editing (CRISPR-Cas9) or deletion (Cre), together with expression of fluorescent or enzymatic reporters for cellular assays and animal imaging studies. The ability to simultaneously alter multiple genes via infection with a single ecotropic or amphotropic MuLE lentivirus provides significant genetic power and allows high throughput genetic modulation studies in mammalian cells and tissues. More information can be found at: www.addgene.org/kits/mule-system

Reference: A versatile modular vector system for rapid combinatorial mammalian genetics.

Handling and Storage: Store glycerol stocks at -80°C and minimize freeze-thaw cycles. To access a plasmid, keep the plate on dry ice to prevent thawing. Using a sterile pipette tip, puncture the seal above an individual well and spread a portion of the glycerol stock onto an agar plate. To patch the hole, use sterile tape or a portion of a fresh aluminum seal.

Note: These plasmid constructs are being distributed to non-profit institutions for the purpose of basic research.

Please contact Addgene at help@addgene.org with any questions.