

## Transfection Perfection<sup>TM</sup>

CytoLogistics' new transfection kit has innovative tools to create stable cell lines using a highly-specific purification agent that eliminates all cells except those high expressors of your Gene of Interest (GOI). This is accomplished with a proprietary vector that has an **Alpha-Gal Removal Sequence** that is expressed along with your GOI. Using an **Alpha-Gal Targeting Agent**, **IB4-SAP**,\* any cells that do not express your gene will be eliminated, leaving you with a cell population purified to contain only your GOI.

## Transfect cells

Efficiently

Reliably

In a fraction of the time compared to traditional methods

It's ... Transfection Perfection™!

## How the Perfect Transfection is Created



The Transfection Perfection™ vector QpGEI contains endo-beta-galactosidase (EndoGalC). When successfully transfected and expressed, the cell will digest the Alpha-Gal epitope. Cells that express the vector at low rates will remove some Alpha-Gal resides, but they will still have Alpha-Gal residues that allow the potent IB4-SAP to target and eliminate the cell. Only cells that have all the Alpha-Gal expression removed will survive and continue to propagate to create a high-expressing fully-transfected population.





IB4-SAP Selectively Binds to Alpha-Gal



Internalization will cause cell death to Alpha-Gal+ cells

IB4-Saporin

GOI Expression Level



None

Alpha-Gal Purification



**IB4-SAP** targets



**IB4-SAP** targets



No IB4-SAP targets



**Efficiency** 

Transfection
Perfection



High

