NEW! **UltraBrite See and Assay Kit** (catalog # ULTRA-SA-RedFluc-1)

Visualize with mVermilion, quantify with Luciferase.

Kit Components: LentiGlo plasmids bundled with UltraBrite™ Firefly luciferase assay reagent (FLAR-1)

How It Works: A single expression cassette drives co-expression of luciferase and a bright red monomeric RFP (25 Kd, 2X brighter than mCherry) via a self-cleaving 2A peptide. This ensures both signals are expressed efficiently from one promoter.

- **Visual QC:** Red FP fluorescence under standard scopes
- **Quantitative Power:** luciferase readout on any luminometer

Advantages at a Glance

- **Visual + Quantitative:** Red FP QC plus luciferase sensitivity
- **Confirms success of transfection** and allows for the non-destructive.
- **Allows real-time monitoring of gene expression**
- **Detect potential issues:** Researchers can visually inspect the cells for overall health and evenness of expression
- **Helpful in high-throughput screens** where many conditions are being tested, the fluorescent reporter can be used as a rapid, early readout to rule out low transfection efficiency or other issues before performing the more labor-intensive luciferase assay.
- **Simple & Fast:** 2-minute lysis; 30–60 min stable signal window
- **Flexible Expression:** Subclonable cassette; alternate FP options,EGFP, tdtomato available
- **Budget-friendly:** Priced competitively with leading suppliers

Catalog#	Product Name	Contents	Price
ULTRA-SA-RedFLuc-1 *Special Offer till October 15*	UltraBrite Firefly luciferase See and Assay Reagent Kit	LentiGlo plasmid: pLenti-UBC-RedFluc-T2A-mVermilion Firefly luciferase assay reagent (FLAR-1) , 1000 assays	$800 *Special Offer till October 15, Regular $1100*
FLAR-1	Firefly luciferase assay reagent	Firefly luciferase assay reagent (1000 assays)	$400

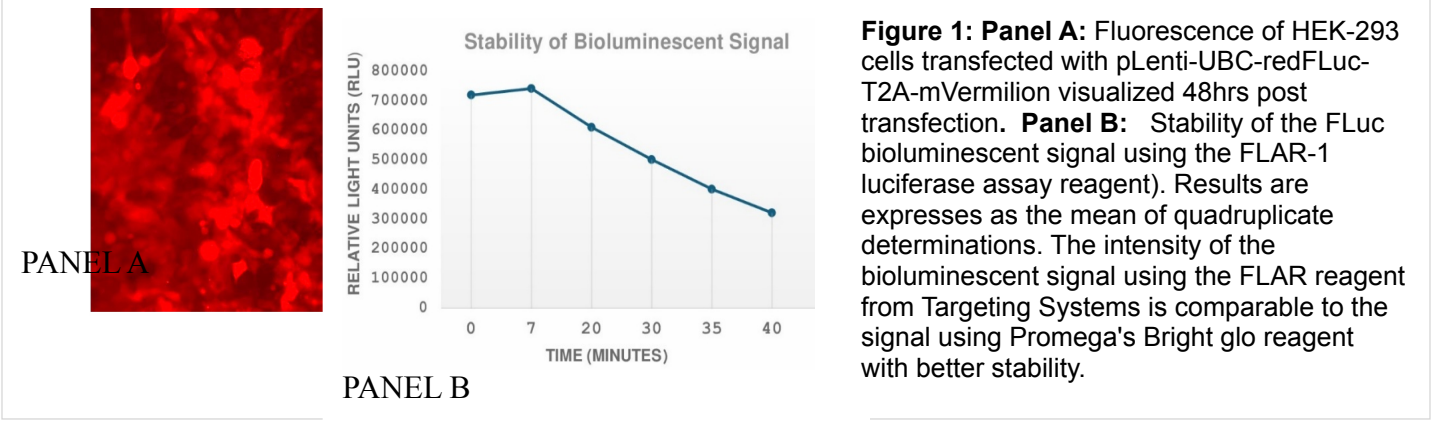


Figure 1: Panel A: Fluorescence of HEK-293 cells transfected with pLenti-UBC-redFLuc-T2A-mVermilion visualized 48hrs post transfection**. Panel B:** Stability of the FLuc bioluminescent signal using the FLAR-1 luciferase assay reagent). Results are expresses as the mean of quadruplicate determinations. The intensity of the bioluminescent signal using the FLAR reagent from Targeting Systems is comparable to the signal using Promega's Bright glo reagent with better stability.

FLAR™ Luciferase Assay Reagent — Key Features

- **Format:** Homogeneous (H) or Non-homogeneous (NH)
- **Sensitivity:** Maximum light output, comparable to Promega Bright-Glo®
- **Signal Stability:** ~30 min (Photinus pyralis) to ~60 min (Luciola italica)
- **Cell Lysis Time:** ~2 minutes
- **Workflow:** Add equal volume of FLAR™ to culture medium (100 µL reagent to 100 µL medium in 96-well) → wait 2 minutes → read

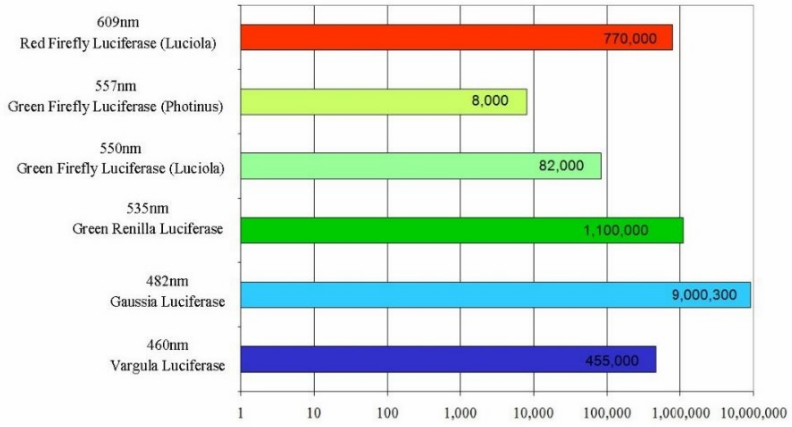
Protocol

1. Remove 96- or 384-well plates containing mammalian cells from the incubator.
2. Equilibrate cultured cells to room temperature.
3. Add FLAR reagent equal to medium volume (100 µL reagent to 100 µL medium in 96-well; 30 µL in 384-well).
4. Wait 2 minutes for lysis.
5. Measure luminescence in a luminometer.

Signal Half-Life: 30 min (Photinus pyralis) to 1 hr (Luciola italica)
NH format uses 5× CLR buffer.
For pre-lysed samples: Mix 5–20 µL lysate with 100 µL FLAR reagent and read immediately.

See it before you measure it. *"Experience the UltraBrite™ See+Assay Kit — order now and reduce wasted assays."*

Other Options: See and Assay options available with our entire panel of single luciferase reporters*-Gaussia luciferase, Renilla luciferase and Cypridina luciferase . Email info@targetingsystems.net or call (619) 562 1518 for available options!* ***Choice of RFP or EGFP co-expressed with a luciferase reporter of your choice from the panel below!***



Custom Reagents:
We can provide custom formulations to fit your HTS application. Call our tech support team at 1-866-620-4018 or email us info@targetingsystems.net