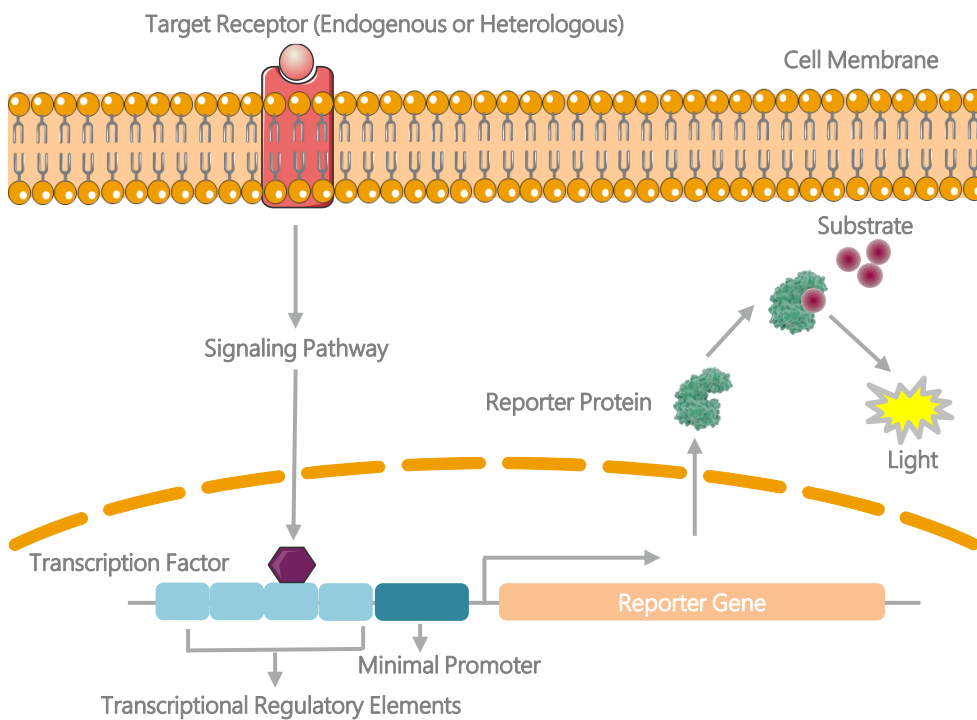


# Signaling Pathway Reporter Cell Lines

Signaling pathway reporter cell lines contain a reporter system that consists of tandem repeats of signaling pathway-related transcriptional response elements, a minimal promoter, and a downstream reporter gene. The ligand-receptor binding can trigger specific signaling pathways to act on the transcriptional response elements and lead to overexpression of the downstream reporter gene, which can be easily and rapidly detected.



**FIGURE 1** The principle of signaling pathway reporter assay

**Creative Biogene** offers a large panel of reporter stable cell lines that are engineered to provide simple, rapid, and reliable methods for monitoring various of signaling pathways, such as NFκB, AP1, NFAT, etc. We provide pre-made and custom-made reporter cell lines to meet your research needs.

## Applications

1. Investigating mechanisms of cell signaling pathways
2. Monitoring and quantifying the activation and / or inhibition of different signaling pathways
3. Screening agonists and / or antagonists for specific pathways
4. Studying functional genes involved in specific pathways

## Our Advantages

1. Robust cell line development platforms & Excellent scientific teams
2. Flexible construction strategies: Lipofectamine™ Transfection, Electroporation, Lentivirus transduction
3. Expertise in a variety of signaling pathways
4. Strict quality controls



### Reporter Genes

Luciferase, SEAP (secreted alkaline phosphatase), GFP, etc.



### Signaling Pathways

ATF6, AP1, Androgen Receptor(AR), BMP, CHOP, CREB, ELK1, Estrogen Receptor(ER), HIF, IFN- $\alpha$ , IL6, IRF, NFAT, NF-kB, NRF2, p53, SMAD, SRF, STAT, Wnt, etc.



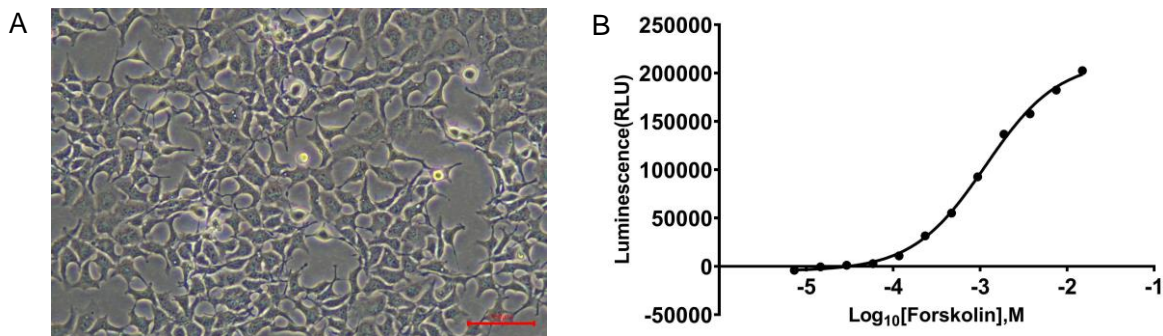
### Host Cells

CHO, HEK293T, HeLa, MDA-MB-453, HEK293, NIH3T3, T47D, Cos-7, Neuro2a, Ca761, MCF7, MDA-MB-231, HepG2, Jurkat T, K562, RAW264.7, A549, C2C12, MEF, RKO, etc.

## Quality Control

1. in-vitro cell luciferase assay
2. Mycoplasma test
3. Bacterial and fungal testing

**FIGURE 2** A: CRE-Luc Reporter Cell Line-HEK293 (CSC-RR0077). B: Dose response of forskolin on HEK293-CRE-Luc cells. The EC50 value was 1.152  $\mu$ M.



## Product List

Cat. No.	Product Name	Cat. No.	Product Name
CSC-RR0001	Human NF-kB/SEAP Reporter Stable Cell Line-HEK293	CSC-RR0013	Human NF-kB/SEAP Reporter Stable Cell Line-RAW 264.7
CSC-RR0002	Human TLR2/NF-kB/SEAP Reporter Stable Cell Line-HEK293	CSC-RR0014	Human IL-17A LUCPorter stable cell lines-HEK293
CSC-RR0003	Human TLR3/NF-kB/SEAP Reporter Stable Cell Line-HEK293	CSC-RR0015	Human FOXP3 LUCPorter stable cell lines-HEK293
CSC-RR0004	Human TLR4/NF-kB/SEAP Reporter Stable Cell Line-HEK293	CSC-RR0017	Human TLR3/IFNB Prom/LUCPorter Reporter Stable Cell Line-HEK293
CSC-RR0005	Human TLR4/MD-2/CD14/NF-kB/SEAP Reporter Stable Cell Line-HEK293	CSC-RR0018	Human TLR3/ISRE Prom/LUCPorter Reporter Stable Cell Line-HEK293
CSC-RR0006	Human TLR5/NF-kB/SEAP Reporter Stable Cell Line-HEK293	CSC-RR0019	AP1-Luc Reporter Cell Line-HEK293
CSC-RR0007	Human TLR8/NF-kB/SEAP Reporter Stable Cell Line-HEK293	CSC-RR0020	NFkB-Luc Reporter Cell Line-HeLa
CSC-RR0008	Human TLR9/NF-kB/SEAP Reporter Stable Cell Line-HEK293	CSC-RR0021	NFkB-Luc Reporter Cell Line-A549
CSC-RR0009	Human TLR10/NF-kB/SEAP Reporter Stable Cell Line-HEK293	CSC-RR0024	NFKB-Luc Reporter Cell Line-NIH3T3
CSC-RR0010	Mouse TLR11/NF-kB/SEAP Reporter Stable Cell Line-HEK293	CSC-RR0025	NFKB-Luc Reporter Cell Line-C2C12
CSC-RR0011	Mouse TLR12/NF-kB/SEAP Reporter Stable Cell Line-HEK293	CSC-RR0027	Human NR3C1 Prom/Luciferase/Hyg Reporter Stable Cell Line-HEK293
CSC-RR0012	Mouse TLR13/NF-kB/SEAP Reporter Stable Cell Line-HEK293	CSC-RR0029	HIF Luciferase Reporter Cell Line-NIH3T3

# Product List

Cat. No.	Product Name	Cat. No.	Product Name
CSC-RR0031	Human CREB Prom/Luciferase/Hyg Reporter Stable Cell Line-CHO	CSC-RR0300	IL6-Luc Reporter Cell Line-NIH3T3
CSC-RR0032	NFAT-Luc Reporter Cell Line-HeLa	CSC-RR0301	Nrf2-Luc Reporter Cell Line-MCF7
CSC-RR0033	NFAT-Luc Reporter Cell Line-K562	CSC-RR0302	HRE-Luc Reporter Cell Line-HeLa
CSC-RR0034	Human STAT1 Prom/Luciferase/Hyg Reporter Stable Cell Line-HeLa	CSC-RR0303	DDX58/Luc Reporter Cell Line-HEK293T
CSC-RR0035	Human SRF Prom/Luciferase/Hyg Reporter Stable Cell Line-HeLa	CSC-RR0304	IFIH1/Luc Reporter Cell Line-HEK293T
CSC-RR0036	Human TAD Kinase Prom/Luciferase/Hyg Reporter Stable Cell Line-HeLa	CSC-RR0305	TLR4/Luc Reporter Cell Line-HeLa
CSC-RR0077	CRE-Luc Reporter Cell Line-HEK293	CSC-RR0306	p53-Luc Reporter Cell Line-HeLa
CSC-RR0083	NF- $\kappa$ B/Luciferase Reporter Stable Cell Line-HEK293	CSC-RR0307	TLR2/Luc Reporter Cell Line-HEK293
CSC-RR0084	TCF-LEF/Luciferase Reporter Stable Cell Line-HEK293	CSC-RR0308	TLR3/Luc Reporter Cell Line-HEK293
CSC-RR0222	TCF/LEF-Luc Reporter Cell Line-HEK293T	CSC-RR0309	TLR7/Luc Reporter Cell Line-HEK293
CSC-RR0288	NF $\kappa$ B-Luc Reporter Cell Line-RAW264.7	CSC-RR0310	TLR8/Luc Reporter Cell Line-HEK293
CSC-RR0289	CXCL2-Luc Reporter Cell Line-HEK293	CSC-RR0311	TLR9/Luc Reporter Cell Line-HEK293
CSC-RR0290	CXCL2-Luc Reporter Cell Line-RAW264.7	CSC-RR0312	STAT5-Luc Reporter Cell Line-Ba/F3
CSC-RR0291	TNF $\alpha$ -Luc Reporter Cell Line-HEK293	CSC-RR0313	SBE-Luc Reporter Cell Line-HEK293
CSC-RR0292	TNF $\alpha$ -Luc Reporter Cell Line-RAW264.7	CSC-RR0314	MRE-Luc Reporter Cell Line-HEK293
CSC-RR0293	TNF $\beta$ -Luc Reporter Cell Line-HEK293	CSC-RR0315	ATF6-Luc Reporter Cell Line-HeLa
CSC-RR0294	TNF $\beta$ -Luc Reporter Cell Line-RAW264.7	CSC-RR0316	TLR5/Luc Reporter Cell Line-HEK293
CSC-RR0295	GATA3-Luc Reporter Cell Line-HEK293	CSC-RR0317	STAT4-Luc Reporter Cell Line-HEK293
CSC-RR0296	NFAT-Luc Reporter Cell Line-RAW264.7	CSC-RR0383	NF $\kappa$ B Luciferase Reporter Cell Line-MCF7
CSC-RR0297	STAT1-Luc Reporter Cell Line-RAW264.7	CSC-RR0384	NF $\kappa$ B Luciferase Reporter Cell Line-HepG2
CSC-RR0298	STAT3-Luc Reporter Cell Line-HEK293	CSC-RR0385	NF $\kappa$ B Luciferase Reporter Cell Line-MEF
CSC-RR0299	iNOS-Luc Reporter Cell Line-RAW264.7	CSC-RR0386	NF $\kappa$ B Luciferase Reporter Cell Line-Neuro2a

# Product List

Cat. No.	Product Name	Cat. No.	Product Name
CSC-RR0387	NFκB Luciferase Reporter Cell Line-Jurkat	CSC-RR0471	FOXP3-Luc Reporter Cell Line-Jurkat
CSC-RR0388	NFAT Luciferase Reporter Cell Line-NIH/3T3	CSC-RR0472	IL-8-Luc Reporter Cell Line-RAW264.7
CSC-RR0389	NFAT Luciferase Reporter Cell Line-Jurkat	CSC-RR0473	NFAT-Luc Reporter Cell Line-HEK293
CSC-RR0390	p53 Luciferase Reporter Cell Line-RKO	CSC-RR0474	TLR3/IFNβ-Luc Reporter Cell Line-HEK293
CSC-RR0391	NRF2/ARE Luciferase Reporter Cell Line-HEK293	CSC-RR0475	SRE-Luc Reporter Cell Line-HEK293
CSC-RR0392	NRF2/ARE Luciferase Reporter Cell Line-HepG2	CSC-RR0476	SRF-RE-Luc Reporter Cell Line-HEK293
CSC-RR0393	NRF2/ARE Luciferase Reporter Cell Line-NIH/3T3	CSC-RR0477	ISRE-Luc Reporter Cell Line-RAW264.7
CSC-RR0394	STAT3 Luciferase Reporter Cell Line-HeLa	CSC-RR0478	ISRE-Luc Reporter Cell Line-HEK293
CSC-RR0395	HIF Luciferase Reporter Cell Line-Neuro2a	CSC-RR0479	STAT4-Luc Reporter Cell Line-Ba/F3
CSC-RR0396	HIF Luciferase Reporter Cell Line-Cos-7	CSC-RR0480	STAT6-Luc Reporter Cell Line-Ba/F3
CSC-RR0397	ER Luciferase Reporter Cell Line-T47D	CSC-RR0481	STAT3-Luc Reporter Cell Line-Ba/F3
CSC-RR0398	GR Luciferase Reporter Cell Line-HeLa	CSC-RR0489	ARE-Luc Reporter Cell Line-SKOV3
CSC-RR0399	AP-1 Luciferase Reporter Cell Line-HeLa	CSC-RR0495	NFAT_Luc Reporter Cell Line-CHO-K1
CSC-RR0400	CREB Luciferase Reporter Cell Line-NIH/3T3	CSC-RR0496	NFκB_Luc Reporter Cell Line-HEK293T
CSC-RR0401	CREB Luciferase Reporter Cell Line-HCC827	CSC-RR0497	NFκB-Luc Reporter Cell Line-THP-1
CSC-RR0402	TCF/LEF Luciferase Reporter Cell Line-HeLa	CSC-RR0498	ISRE-Luc Reporter Cell Line-HEK293T
CSC-RR0403	TCF/LEF Luciferase Reporter Cell Line-CHO-K1	CSC-RR0499	NFAT-Luc Reporter Cell Line-HEK293T
CSC-RR0404	IRF Luciferase Reporter Cell Line-HepG2	CSC-RR0500	NFAT-Luc/PDCD1 Stable Cell Line-Jurkat
CSC-RR0405	ATF6 Luciferase Reporter Cell Line-CHO-K1	CSC-RR0533	RARE-Luc Reporter Cell Line-HEK293
CSC-RR0406	ELK-TAD Luciferase Reporter Cell Line-HEK293	CSC-RR0544	Human NTRK1/SRE-Luc Reporter Cell Line-HEK293
CSC-RR0407	ELK-TAD Luciferase Reporter Cell Line-HeLa	CSC-RR0549	Human CD40/NFκB-Luc Stable Cell Line-HEK293
CSC-RR0408	IL6 Luciferase Reporter Cell Line-HEK293	CSC-RR0471	FOXP3-Luc Reporter Cell Line-Jurkat

CREATIVE



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