

Bibliography: Phospha-Light[™] Reporter Gene Assay System

Reporter Gene Assay (Gene Expression) Applications, Tissue Culture (Cell Lines)

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- Andres, V, S Fisher, P Wearsch and K Walsh (1995). Regulation of Gax homeobox gene transcription by a combination of positive factors including myocyte-specific Enhancer Factor 2. *Mol Cell Biol* 15(8):4272-4281.

(PLAP plasmid-transfected rat aorta embryonic A10 cells, C3H mouse mesodermal embryonic 10T1/2 cells, C2C12 myogenic cells, rat primary aortic cells)

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(stable transfectants from plasmid and retroviral SEAP vectors)

Babb, R and BR Bowen (2003). SDP1 is a peroxisome-proliferator-activated receptor γ2 co-activator that binds through its SCAN domain. *Biochem J* 370:719-727.

(transient transfection of HeLa, HEK293 and HepG2 cells; also uses Dual-Light[™] assay system)

- Bagnard, D, N Chounlamountri, AW Puschel and J Bolz (2001). Axonal surface molecules act in combination with Semaphorin 3A during the establishment of corticothalamic projections. *Cerebral Cortex* 11:278-285. (measurement of expression level of recombinant fusion proteins (AP fusion) in stably-transfected HEK293 cells)
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 (IL 8 SEAD fusion plasmid transfacted COS 1 cells, measurement of SEAD activity as read out.

(IL-8-SEAP fusion plasmid-transfected COS-1 cells, measurement of SEAP activity as read-out for gene knockdown/RNA interference)

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 (SEAP plasmid-transfected mouse Hepa-1 hepatoma cells, African green monkey kidney CV-1

(SEAP plasmid-transfected mouse Hepa-1 hepatoma cells, African green monkey kidney CV-1 cells)

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 (SEAP plasmid-transfected rat mammary epithelial cell lines, metastatic rat mammary epithelial

(SEAP plasmid-transfected rat mammary epithelial cell lines, metastatic rat mammary epithelial cell lines)

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(transfected A549 cells (human lung epithelial line), WI-38 and CCD-32Lu (human lung fibroblast lines))

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Damania, B, M Li, J-K Choi, L Alexander, JU Jung and RC Desrosiers (1999). Identification of the R1 oncogene and its protein product from the Rhadinovirus of Rhesus monkeys. *J Virol* 73(6):5123-5131.

(transfection of OMK (owl monkey kidney) cells and marmoset PBMCs with SEAP viral vectors)

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(SEAP plasmid-transfected COS cells)

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(SEAP plasmid stable transfectants of NIH3T3 cells)

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(SEAP plasmid-transfected IC-21 macrophage cell line)

Lee, J-C, T-Y Wu, C-F Huang, F-M Yang, S-R Shih and JTA Hsu (2005). High-efficiency protein expression mediated by Enterovirus 71 internal ribosome entry site. *Biotechnology and Bioengineering* 90(5):656-662.

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(SEAP plasmid-transfected Jurkat cells)

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(PAP plasmid-transfected lymphocyte (T cell) lines)

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Reporter Gene Assay (Gene Expression) Applications, Tissue Culture (Primary Cultures)

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(transfection of rat primary cortical glial cultures)

Andres, V, S Fisher, P Wearsch and K Walsh (1995). Regulation of Gax homeobox gene transcription by a combination of positive factors including myocyte-specific Enhancer Factor 2. Mol Cell Biol 15(8):4272-4281.

(PLAP plasmid-transfected rat aorta embryonic A10 cells, C3H mouse mesodermal embryonic 10T1/2 cells, C2C12 myogenic cells, rat primary aortic cells)

Brooks, AR, D Shiffman, CS Chan, EE Brooks and PG Milner (1996). Functional analysis of the human cyclin D2 and cyclin D3 promoters. J Biol Chem 271(15):9090-9099. (pCMV-SEAP-transfected primary rat aortic VSMC cells)



Chan, GCK, U Lernmark, Z Xia and DR Storm (2001). DNA elements of the type 1 adenylyl cyclase gene locus enhance reporter gene expression in neurons and pinealocytes. *European Journal of Neuroscience* 13:2054-2066.

(SEAP plasmid-transfected cortical neurons, used to normalize luciferase reporter)

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(transfection of primary rat VSMCs and fibroblasts with SEAP vectors; SEAP quantitation in sera from rats injected with syngeneic transfected VSMCs)

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(SEAP plasmid-transfected rat cortical neuron primary cultures; also uses Luciferase Assay Kit and Western-Light[™] or Western-*Star*[™] immunodetection system).

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Reporter Gene Assay (Gene Expression) Applications, Tissue Culture (Viral Assays)

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 Quantitative Adenovirus neutralization assays based on the secreted alkaline phosphatase reporter gene: Application in epidemiologic studies and in the design of adenovector vaccines. *Human Gene Therapy* 15:293-304.

(antibody neutralization of adenovirus infection, HEK293 cells)



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(viral infectivity assays with T2-SEAP indicator cells)

Damania, B, M Li, J-K Choi, L Alexander, JU Jung and RC Desrosiers (1999). Identification of the R1 oncogene and its protein product from the Rhadinovirus of Rhesus monkeys. *J Virol* 73(6):5123-5131.

(transfection of OMK (owl monkey kidney) cells and marmoset PBMCs with SEAP viral vectors) Duboise, SM, J Guo, S Czajak, RC Desrosiers and JU Jung (1998). STP and Tip are essential for

herpesvirus saimiri oncogenicity. *J Virol* 72(2):1308-1313. (transfection of OMK (owl monkey kidney) cells and SEAP measurement in serum of viral-vector (HVS) infected marmosets)

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- Hamm, TE, D Rekosh and M-L Hammarskjold (1999). Selection and characterization of Human Immunodeficiency Virus Type 1 mutants that are resistant to inhibition by the transdominant negative RevM10 protein. J Virol 73(7):5741-5747. (SEAP plasmid-transfected CMT3-COS cells)
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(adenoviral SEAP vector-infected human embryonic lung fibroblast cell line)

Hwang, D-R, Y-C Tsai, J-C Lee, K-K Huang, R-K Lin, C-H Ho, J-M Chiou, Y-T Lin, JTA Hsu and C-T Yeh (2004). Inhibition of Hepatitis C virus replication by arsenic trioxide. *Antimicrobial Agents and Chemotherapy* 48(8):2876-2882.

(Ava5 cells - Huh-7 cells with stable integration of HCV replicon-SEAP reporter)

Ilyinskii, PO and RC Desrosiers (1996). Efficient transcription and replication of simian immunodeficiency virus in the absence of NF-κB and Sp1 binding elements. *J Virol* 70(5):3118-3126.

(SEAP plasmid-transfected COS-1 cells)

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(transfection of primary rat VSMCs and fibroblasts with SEAP vectors; SEAP quantitation in sera from rats injected with syngeneic transfected VSMCs)



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Receptor Binding Assay Application, SEAP-Ligand Chimera

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