

How do I assay for GLuc expression?

Both the BioLux® *Gaussia* Luciferase Assay Kit (NEB #E3300) and the BioLux *Gaussia* Luciferase Flex Assay Kit (NEB #E3308) can be used to detect GLuc expression.

Is there another secreted reporter that can be used with GLuc?

Yes. *Gaussia* and *Cypridina* are both secreted luciferases, which produce high bioluminescent signal intensity. They oxidize different substrates that do not cross-react with each other. Therefore, *Gaussia* and *Cypridina* are an ideal duo for co-transfecting mammalian cells (2,3). Refer to the BioLux *Cypridina* Luciferase (CLuc) Assay Kits and CLuc expression vectors for more information.

References:

1. Verhaegen, M. and Christopoulos, T.K. (2002) *Anal. Chem.*, 74, 4378–4385.
2. Tannous, B.A. et al. (2005) *Mol. Ther.*, 11, 435–443.
3. Otsuji, et al. (2004) *Anal. Biochemistry*, 329, 230–237.
4. Wu, et al. (2007) *Biotechniques*, 42, 290–292.
5. Levitt, et al. (1989) *Genes Dev.*, 3, 1019–1025.

Companion Products Sold Separately:

BioLux <i>Gaussia</i> Luciferase Assay Kit #E3300S	100 assays
#E3300L	1,000 assays
BioLux GLuc Flex Assay Kit #E3308S	100 assays
#E3308L	1,000 assays
Luciferase Cell Lysis Buffer #B3321S	25 ml
pGLuc-Basic 2 Vector #N8082S	20 µg
pGLuc Mini-TK 2 Vector #N8086S	20 µg
pSV40-GLuc Control Plasmid #N0323S	20 µg
pTK-GLuc Vector #N8084S	20 µg
Anti-GLuc Antibody #N8023S	0.2 ml
BioLux <i>Cypridina</i> Luciferase Assay Kit #E3309S	100 assays
#E3309L	1,000 assays
BioLux <i>Cypridina</i> Luciferase Starter Kit #E3314S	100 assays
#E3314L	1,000 assays
pCLuc-Basic 2 Vector #N0317S	20 µg
pCLuc Mini-TK 2 Vector #N0324S	20 µg
pCMV-CLuc 2 Control Plasmid #N0321S	20 µg
pSV40-CLuc Control Plasmid #N0318S	20 µg
pTK-CLuc Vector #N0322S	20 µg



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