

References for Products 12501 to 12511

1. Liu L, Hastings JW. (2006) Two different domains of the luciferase gene in the heterotrophic dinoflagellate *Noctiluca scintillans* occur as two separate genes in photosynthetic species. *Proc Natl Acad Sci U S A*.
2. Emamzadeh AR, Hosseinkhani S, Sadeghizadeh M, Nikkhah M, Chaichi MJ, Mortazavi M. (2006) cDNA cloning, expression and homology modeling of a luciferase from the firefly *Lampyroidea maculata*. *J Biochem Mol Biol*, 39, 578.
3. Viviani VR, Ohmiya Y. (2006) Bovine serum albumin displays luciferase-like activity in presence of luciferyl adenylate: insights on the origin of protoluciferase activity and bioluminescence colours. *Luminescence*, 21, 262.
4. Schipper ML, Patel MR, Gambhir SS. (2006) Evaluation of firefly luciferase bioluminescence mediated photodynamic toxicity in cancer cells. *Mol Imaging Biol*, 8, 218.
5. Oba Y, Sato M, Inouye S. (2006) Cloning and characterization of the homologous genes of firefly luciferase in the mealworm beetle, *Tenebrio molitor*. *Insect Mol Biol*, 15, 293.
6. Palomba S, Berovic N, Palmer RE. (2006) Bioluminescence of monolayers of firefly luciferase immobilized on graphite. *Langmuir*, 22, 5451.
7. Schipper ML, Patel MR, Gambhir SS. (2006) Evaluation of Firefly Luciferase Bioluminescence Mediated Photodynamic Toxicity in Cancer Cells. *Mol Imaging Biol*.
8. Fraga H, Fernandes D, Novotny J, Fontes R, Esteves da Silva JC. (2006) Firefly luciferase produces hydrogen peroxide as a coproduct in dehydroluciferyl adenylate formation. *Chembiochem*, 7, 929.
9. Law GH, Gandelman OA, Tisi LC, Lowe CR, Murray JA. (2006) Mutagenesis of solvent-exposed amino acids in *Photinus pyralis* luciferase improves thermostability and pH-tolerance. *Biochem J*, 397, 305.
10. Nakatsu T, Ichiyama S, Hiratake J, Saldanha A, Kobashi N, Sakata K, Kato H. (2006) Structural basis for the spectral difference in luciferase bioluminescence. *Nature*, 440, 372.
11. Matsunaga T, Kose E, Yasuda S, Ise H, Ikeda U, Ohmori S. (2006) Determination of p-glycoprotein ATPase activity using luciferase. *Biol Pharm Bull*, 29, 560.
12. Rodionova NS, Petushkov VN. (2006) Effect of different salts and detergents on luciferin-luciferase luminescence of the enchytraeid *Fridericia heliota*. *J Photochem Photobiol B*, 83, 123.
13. Szentirmai O, Baker CH, Lin N, Szucs S, Takahashi M, Kiryu S, Kung AL, Mulligan RC, Carter BS. (2006) Noninvasive bioluminescence imaging of luciferase expressing intracranial U87 xenografts: correlation with magnetic resonance imaging determined tumor volume and longitudinal use in assessing tumor growth and antiangiogenic treatment effect. *Neurosurgery*, 58, 365.
14. Doyle TC, Nawotka KA, Purchio AF, Akin AR, Francis KP, Contag PR. (2006) Expression of firefly luciferase in *Candida albicans* and its use in the selection of stable transformants. *Microb Pathog*, 40, 69.
15. Wang JQ, Pollok KE, Cai S, Stantz KM, Hutchins GD, Zheng QH. (2006) PET imaging and optical imaging with D-luciferin [¹¹C]methyl ester and D-luciferin [¹¹C]methyl ether of luciferase gene expression in tumor xenografts of living mice. *Bioorg Med Chem Lett*, 16, 331.
16. Fraga H, Fernandes D, Fontes R, Esteves da Silva JC. (2005) Coenzyme A affects firefly luciferase luminescence because it acts as a substrate and not as an allosteric effector. *Febs J*, 272, 5206.
17. Branchini BR, Southworth TL, Khattak NF, Michelini E, Roda A. (2005) Red- and green-emitting firefly luciferase mutants for bioluminescent reporter applications. *Anal Biochem*, 345, 140.

18. Branchini BR, Murtiashaw MH, Carmody JN, Mygatt EE, Southworth TL. (2005) Synthesis of an N-acyl sulfamate analog of luciferyl-AMP: a stable and potent inhibitor of firefly luciferase. *Bioorg Med Chem Lett*, 15, 3860.
19. Nakamura M, Maki S, Amano Y, Ohkita Y, Niwa K, Hirano T, Ohmiya Y, Niwa H. (2005) Firefly luciferase exhibits bimodal action depending on the luciferin chirality. *Biochem Biophys Res Commun*, 331, 471.
20. Paulmurugan R, Gambhir SS. (2005) Firefly luciferase enzyme fragment complementation for imaging in cells and living animals. *Anal Chem*, 77, 1295.
21. Li JZ, Holman D, Li H, Liu AH, Beres B, Hankins GR, Helm GA. (2005) Long-term tracing of adenoviral expression in rat and rabbit using luciferase imaging. *J Gene Med*, 7, 792.
22. El Hilali N, Rubio N, Blanco J. (2005) Different effect of paclitaxel on primary tumor mass, tumor cell contents, and metastases for four experimental human prostate tumors expressing luciferase. *Clin Cancer Res*, 11, 1253.
23. Branchini BR, Southworth TL, Murtiashaw MH, Wilkinson SR, Khattak NF, Rosenberg JC, Zimmer M. (2005) Mutagenesis evidence that the partial reactions of firefly bioluminescence are catalyzed by different conformations of the luciferase C-terminal domain. *Biochemistry*, 44, 1385.
24. Schultz LW, Liu L, Cegielski M, Hastings JW. (2005) Crystal structure of a pH-regulated luciferase catalyzing the bioluminescent oxidation of an open tetrapyrrole. *Proc Natl Acad Sci U S A*, 102, 1378.
25. Suzuki C, Nakajima Y, Akimoto H, Wu C, Ohmiya Y. (2005) A new additional reporter enzyme, dinoflagellate luciferase, for monitoring of gene expression in mammalian cells. *Gene*, 344, 61.
26. Takehara K, Kamaya H, Ueda I. (2005) Inhibition of firefly luciferase by alkane analogues. *Biochim Biophys Acta*, 1721, 124.
27. Nogawa M, Yuasa T, Kimura S, Kuroda J, Sato K, Segawa H, Yokota A, Maekawa T. (2005) Monitoring luciferase-labeled cancer cell growth and metastasis in different in vivo models. *Cancer Lett*, 217, 243.
28. El Hilali N, Rubio N, Blanco J. (2004) Noninvasive in vivo whole body luminescent analysis of luciferase labelled orthotopic prostate tumours. *Eur J Cancer*, 40, 2851.
29. Alipour BS, Hosseinkhani S, Nikkhan M, Naderi-Manesh H, Chaichi MJ, Osaloo SK. (2004) Molecular cloning, sequence analysis, and expression of a cDNA encoding the luciferase from the glow-worm, *Lampyrus turkestanicus*. *Biochem Biophys Res Commun*, 325, 215.
30. Oba Y, Tsuduki H, Kato S, Ojika M, Inouye S. (2004) Identification of the luciferin-luciferase system and quantification of coelenterazine by mass spectrometry in the deep-sea luminous ostracod *Conchoecia pseudodiscophora*. *Chembiochem*, 5, 1495.
31. Luker GD, Leib DA. (2005) Luciferase real-time bioluminescence imaging for the study of viral pathogenesis. *Methods Mol Biol*, 292, 285.
32. Niwa K, Ohmiya Y. (2004) Inhibitory effect of lipoic acid on firefly luciferase bioluminescence. *Biochem Biophys Res Commun*, 323, 625.
33. Maeda M. (2004) [Determination of biological substances using bioluminescent reaction based on luciferin-luciferase]. *Rinsho Byori*, 52, 595.
34. Kim SB, Ozawa T, Watanabe S, Umezawa Y. (2004) High-throughput sensing and noninvasive imaging of protein nuclear transport by using reconstitution of split Renilla luciferase. *Proc Natl Acad Sci U S A*, 101, 11542.
35. Rodionova NS, Bondar VS, Petushkov VN. (2003) ATP is a cosubstrate of the luciferase of the earthworm *Fridericia heliota* (Annelida: Clitellata: Oligochaeta: Enchytraeidae). *Dokl Biochem Biophys*, 392, 253.
36. Bhaumik S, Lewis XZ, Gambhir SS. (2004) Optical imaging of Renilla luciferase, synthetic Renilla luciferase, and firefly luciferase reporter gene expression in living mice. *J Biomed Opt*, 9, 578.
37. Branchini BR, Southworth TL, Murtiashaw MH, Magyar RA, Gonzalez SA, Ruggiero MC, Stroh JG. (2004) An alternative mechanism of bioluminescence color determination in firefly luciferase. *Biochemistry*, 43, 7255.

38. Kolokoltsov AA, Davey RA. (2004) Rapid and sensitive detection of retrovirus entry by using a novel luciferase-based content-mixing assay. *J Virol*, 78, 5124.
39. Malstrom SE, Tornavaca O, Meseguer A, Purchio AF, West DB. (2004) The characterization and hormonal regulation of kidney androgen-regulated protein (Kap)-luciferase transgenic mice. *Toxicol Sci*, 79, 266.
40. Oba Y, Ojika M, Inouye S. (2004) Characterization of CG6178 gene product with high sequence similarity to firefly luciferase in *Drosophila melanogaster*. *Gene*, 329, 137.
41. Murphy GA, McLennan AG. (2004) Synthesis of dinucleoside tetraphosphates in transfected cells by a firefly luciferase reporter gene. *Cell Mol Life Sci*, 61, 497.
42. Lee SY, Choe YS, Lee KH, Lee J, Choi Y, Kim BT. (2004) Synthesis of 7'-[123I]iodo-D-luciferin for in vivo studies of firefly luciferase gene expression. *Bioorg Med Chem Lett*, 14, 1161.
43. Fraga H, Esteves da Silva JC, Fontes R. (2004) Identification of luciferyl adenylate and luciferyl coenzyme a synthesized by firefly luciferase. *Chembiochem*, 5, 110.
44. Zeng FY, McLean AJ, Milligan G, Lerner M, Chalmers DT, Behan DP. (2003) Ligand specific up-regulation of a *Renilla reniformis* luciferase-tagged, structurally unstable muscarinic M3 chimeric G protein-coupled receptor. *Mol Pharmacol*, 64, 1474.
45. Leskinen P, Virta M, Karp M. (2003) One-step measurement of firefly luciferase activity in yeast. *Yeast*, 20, 1109.
46. Lee KH, Byun SS, Paik JY, Lee SY, Song SH, Choe YS, Kim BT. (2003) Cell uptake and tissue distribution of radioiodine labelled D-luciferin: implications for luciferase based gene imaging. *Nucl Med Commun*, 24, 1003.
47. Branchini BR, Southworth TL, Murtiashaw MH, Boije H, Fleet SE. (2003) A mutagenesis study of the putative luciferin binding site residues of firefly luciferase. *Biochemistry*, 42, 10429.
48. Caceres G, Zhu XY, Jiao JA, Zankina R, Aller A, Andreotti P. (2003) Imaging of luciferase and GFP-transfected human tumours in nude mice. *Luminescence*, 18, 218.
49. Collaco AM, Geusz ME. (2003) Monitoring immediate-early gene expression through firefly luciferase imaging of HRS/J hairless mice. *BMC Physiol*, 3, 8.
50. Zako T, Ayabe K, Aburatani T, Kamiya N, Kitayama A, Ueda H, Nagamune T. (2003) Luminescent and substrate binding activities of firefly luciferase N-terminal domain. *Biochim Biophys Acta*, 1649, 183.
51. Zhang W, Purchio AF, Chen K, Wu J, Lu L, Coffee R, Contag PR, West DB. (2003) A transgenic mouse model with a luciferase reporter for studying in vivo transcriptional regulation of the human CYP3A4 gene. *Drug Metab Dispos*, 31, 1054.
52. Fraga H, Esteves da Silva JC, Fontes R. (2003) pH opposite effects on synthesis of dinucleoside polyphosphates and on oxidation reactions catalyzed by firefly luciferase. *FEBS Lett*, 543, 37.
53. Arakawa H, Shiokawa M, Imamura O, Maeda M. (2003) Novel bioluminescent assay of alkaline phosphatase using adenosine-3'-phosphate-5'-phosphosulfate as substrate and the luciferin-luciferase reaction and its application. *Anal Biochem*, 314, 206.
54. Hattori N, Kajiyama N, Maeda M, Murakami S. (2002) Mutant luciferase enzymes from fireflies with increased resistance to benzalkonium chloride. *Biosci Biotechnol Biochem*, 66, 2587.
55. Ito K, Nakagawa K, Murakami S, Arakawa H, Maeda M. (2003) Highly sensitive simultaneous bioluminescent measurement of acetate kinase and pyruvate phosphate dikinase activities using a firefly luciferase-luciferin reaction and its application to a tandem bioluminescent enzyme immunoassay. *Anal Sci*, 19, 105.
56. El Hilali N, Rubio N, Martinez-Villacampa M, Blanco J. (2002) Combined noninvasive imaging and luminometric quantification of luciferase-labeled human prostate tumors and metastases. *Lab Invest*, 82, 1563.
57. Yang NC, Ho WM, Chen YH, Hu ML. (2002) A convenient one-step extraction of cellular ATP using boiling water for the luciferin-luciferase assay of ATP. *Anal Biochem*, 306, 323.
58. Tsuji FI. (2002) Bioluminescence reaction catalyzed by membrane-bound luciferase in the "firefly squid," *Watasenia scintillans*. *Biochim Biophys Acta*, 1564, 189.

59. Morishita H, Ohashi S, Oku T, Nakajima Y, Kojima S, Ryufuku M, Nakamura H, Ohmiya Y. (2002) Cloning and characterization of an active fragment of luciferase from a luminescent marine alga, *Pyrocystis lunula*. *Photochem Photobiol*, 75, 311.
60. Allen DG, Lannergren J, Westerblad H. (2002) Intracellular ATP measured with luciferin/luciferase in isolated single mouse skeletal muscle fibres. *Pflugers Arch*, 443, 836.
61. Berovic N, Pratontep S, Bryant A, Montouris A, Green RG. (2002) The kinetics of radiation damage to the protein luciferase and recovery of enzyme activity after irradiation. *Radiat Res*, 157, 122.
62. Di Tomaso G, Borghese R, Zannoni D. (2001) Assay of ATP in intact cells of the facultative phototroph *Rhodobacter capsulatus* expressing recombinant firefly luciferase. *Arch Microbiol*, 177, 11.
63. Bhaumik S, Gambhir SS. (2002) Optical imaging of *Renilla* luciferase reporter gene expression in living mice. *Proc Natl Acad Sci U S A*, 99, 377.
64. Zhang Y, Stabernack CR, Dutton R, Sonner J, Trudell JR, Mihic SJ, Yamakura T, Harris RA, Gong D, Eger EI, 2nd. (2001) Luciferase as a model for the site of inhaled anesthetic action. *Anesth Analg*, 93, 1246.
65. Min K, Steghens J. (2001) ADP is produced by firefly luciferase but its synthesis is independent of the light emitting properties. *Biochimie*, 83, 523.
66. Gomi K, Kajiyama N. (2001) Oxyluciferin, a luminescence product of firefly luciferase, is enzymatically regenerated into luciferin. *J Biol Chem*, 276, 36508.
67. Cherednikova E, Chikishev A, Dementieva EI, Kossobokova OV, Ugarova NN. (2001) Quenching of tryptophan fluorescence of firefly luciferase by substrates. *J Photochem Photobiol B*, 60, 7.
68. Branchini BR, Magyar RA, Murtiashaw MH, Portier NC. (2001) The role of active site residue arginine 218 in firefly luciferase bioluminescence. *Biochemistry*, 40, 2410.
69. Kratzer S, Mundigl O, Dicker F, Seeber S. (2001) Digital imaging microscopy of firefly luciferase activity to directly monitor differences in cell transduction efficiencies between AdCMVLuc and Ad5LucRGD vectors having different cell binding properties. *J Virol Methods*, 93, 175.
70. Nass N, Scheel D. (2001) Enhanced luciferin entry causes rapid wound-induced light emission in plants expressing high levels of luciferase. *Planta*, 212, 149.
71. Deb DK, Srivastava KK, Srivastava R, Srivastava BS. (2000) Bioluminescent *Mycobacterium aurum* expressing firefly luciferase for rapid and high throughput screening of antimycobacterial drugs in vitro and in infected macrophages. *Biochem Biophys Res Commun*, 279, 457.
72. Sillero A, Sillero MA. (2000) Synthesis of dinucleoside polyphosphates catalyzed by firefly luciferase and several ligases. *Pharmacol Ther*, 87, 91.
73. Branchini BR, Murtiashaw MH, Magyar RA, Anderson SM. (2000) The role of lysine 529, a conserved residue of the acyl-adenylate-forming enzyme superfamily, in firefly luciferase. *Biochemistry*, 39, 5433.
74. Karp M, Oker-Blom C. (1999) A streptavidin-luciferase fusion protein: comparisons and applications. *Biomol Eng*, 16, 101.
75. Brau F, Bernengo JC, Min KL, Steghens JP. (2000) Firefly luciferase generates two low-molecular-weight light-emitting species. *Biochem Biophys Res Commun*, 270, 247.
76. Brovko L, Cherednikova E, Chikishev A, Dementieva EI, Koroteev NI, Ugarova NN. (1999) Transient increase of tryptophan fluorescence of enzyme caused by photoexcitation of ligand in luciferase-luciferin complex. *Biospectroscopy*, 5, 378.
77. Min KL, Steghens JP. (1999) The emitting species dissociated from the enzyme can emit the light in *Photinus pyralis* luciferase system. *Biochem Biophys Res Commun*, 265, 273.
78. Chiu NH, Christopoulos TK. (1999) Two-site expression immunoassay using a firefly luciferase-coding DNA label. *Clin Chem*, 45, 1954.
79. Branchini BR, Magyar RA, Murtiashaw MH, Anderson SM, Helgerson LC, Zimmer M. (1999) Site-directed mutagenesis of firefly luciferase active site amino acids: a proposed model for bioluminescence color. *Biochemistry*, 38, 13223.

80. Sandalova TP, Ugarova NN. (1999) Model of the active site of firefly luciferase. *Biochemistry (Mosc)*, 64, 962.
81. Sudhaharan T, Reddy AR. (1999) A bifunctional luminogenic substrate for two luminescent enzymes: firefly luciferase and horseradish peroxidase. *Anal Biochem*, 271, 159.
82. Riska PF, Su Y, Bardarov S, Freundlich L, Sarkis G, Hatfull G, Carriere C, Kumar V, Chan J, Jacobs WR, Jr. (1999) Rapid film-based determination of antibiotic susceptibilities of *Mycobacterium tuberculosis* strains by using a luciferase reporter phage and the Bronx Box. *J Clin Microbiol*, 37, 1144.
83. Ueda I, Suzuki A, Kamaya H. (1998) Do anesthetics act by competitive binding to specific receptors? Phase transition of firefly luciferase. *Toxicol Lett*, 100-101, 405.
84. Matsuki H, Suzuki A, Kamaya H, Ueda I. (1999) Specific and non-specific binding of long-chain fatty acids to firefly luciferase: cutoff at octanoate. *Biochim Biophys Acta*, 1426, 143.
85. Ueda I, Matsuki H, Kamaya H, Krishna PR. (1999) Does pressure antagonize anesthesia? Opposite effects on specific and nonspecific inhibitors of firefly luciferase. *Biophys J*, 76, 483.
86. Ueda I, Minami H, Matsuki H, Inoue T. (1999) Does pressure antagonize anesthesia? High-pressure stopped-flow study of firefly luciferase and anatomy of initial flash. *Biophys J*, 76, 478.
87. Fontes R, Ortiz B, de Diego A, Sillero A, Gunther Sillero MA. (1998) Dehydroluciferyl-AMP is the main intermediate in the luciferin dependent synthesis of Ap4A catalyzed by firefly luciferase. *FEBS Lett*, 438, 190.
88. Branchini BR, Magyar RA, Murtiashaw MH, Anderson SM, Zimmer M. (1998) Site-directed mutagenesis of histidine 245 in firefly luciferase: a proposed model of the active site. *Biochemistry*, 37, 15311.
89. Franks NP, Jenkins A, Conti E, Lieb WR, Brick P. (1998) Structural basis for the inhibition of firefly luciferase by a general anesthetic. *Biophys J*, 75, 2205.
90. Vicat JM, Blum D, Wion D, Benabid AL, Berger F. (1998) RLU and studies using the luciferase reporter gene. *Nat Biotechnol*, 16, 702.
91. Ford SR, Leach FR. (1998) Improvements in the application of firefly luciferase assays. *Methods Mol Biol*, 102, 3.
92. Ueda I, Suzuki A. (1998) Is there a specific receptor for anesthetics? Contrary effects of alcohols and fatty acids on phase transition and bioluminescence of firefly luciferase. *Biophys J*, 75, 1052.
93. Ueda I, Suzuki A. (1998) Irreversible phase transition of firefly luciferase: contrasting effects of volatile anesthetics and myristic acid. *Biochim Biophys Acta*, 1380, 313.
94. Sudhaharan T, Reddy AR. (1998) Opiate analgesics' dual role in firefly luciferase activity. *Biochemistry*, 37, 4451.
95. Jubin R, Murray MG. (1998) Activity screening of bacteria containing *Renilla luciferase* plasmids. *Biotechniques*, 24, 185.
96. Mittag M, Li L, Hastings JW. (1998) The mRNA level of the circadian regulated *Gonyaulax luciferase* remains constant over the cycle. *Chronobiol Int*, 15, 93.
97. Li L, Hastings JW. (1998) The structure and organization of the luciferase gene in the photosynthetic dinoflagellate *Gonyaulax polyedra*. *Plant Mol Biol*, 36, 275.
98. Toonen MA, Verhees JA, Schmidt ED, van Kammen A, de Vries SC. (1997) AtLTP1 luciferase expression during carrot somatic embryogenesis. *Plant J*, 12, 1213.
99. Li L, Hong R, Hastings JW. (1997) Three functional luciferase domains in a single polypeptide chain. *Proc Natl Acad Sci U S A*, 94, 8954.
100. Fontes R, Dukhovich A, Sillero A, Sillero MA. (1997) Synthesis of dehydroluciferin by firefly luciferase: effect of dehydroluciferin, coenzyme A and nucleoside triphosphates on the luminescent reaction. *Biochem Biophys Res Commun*, 237, 445.
101. Branchini BR, Magyar RA, Marcantonio KM, Newberry KJ, Stroh JG, Hinz LK, Murtiashaw MH. (1997) Identification of a firefly luciferase active site peptide using a benzophenone-based photooxidation reagent. *J Biol Chem*, 272, 19359.

102. Ye L, Buck LM, Schaeffer HJ, Leach FR. (1997) Cloning and sequencing of a cDNA for firefly luciferase from *Photuris pennsylvanica*. *Biochim Biophys Acta*, 1339, 39.
103. Inouye S, Shimomura O. (1997) The use of *Renilla* luciferase, *Oplophorus* luciferase, and apoaequorin as bioluminescent reporter protein in the presence of coelenterazine analogues as substrate. *Biochem Biophys Res Commun*, 233, 349.
104. Branchini BR, Magyar RA, Murtiashaw MH, Magnasco N, Hinz LK, Stroh JG. (1997) Inactivation of firefly luciferase with N-(iodoacetyl)-N'-(5-sulfo-1-naphthyl)ethylenediamine (I-AEDANS). *Arch Biochem Biophys*, 340, 52.
105. Sillero MA, Madrid O, Zaera E, Sillero A. (1997) 2',3'-dideoxynucleoside triphosphates (ddNTP) and di-2',3'-dideoxynucleoside tetraphosphates (ddNp4ddN) behave differently to the corresponding NTP and Np4N counterparts as substrates of firefly luciferase, dinucleoside tetraphosphatase and phosphodiesterases. *Biochim Biophys Acta*, 1334, 191.
106. Gailey PC, Miller EJ, Griffin GD. (1997) Low-cost system for real-time monitoring of luciferase gene expression. *Biotechniques*, 22, 528.
107. Rieger D. (1997) Batch analysis of the ATP content of bovine sperm, oocytes, and early embryos using a scintillation counter to measure the chemiluminescence produced by the luciferin-luciferase reaction. *Anal Biochem*, 246, 67.
108. Chiu NH, Christopoulos TK. (1996) Hybridization assays using an expressible DNA fragment encoding firefly luciferase as a label. *Anal Chem*, 68, 2304.
109. Steidler L, Yu W, Fiers W, Remaut E. (1996) The expression of the *Photinus pyralis* luciferase gene in *Staphylococcus aureus* Cowan I allows the development of a live amplifiable tool for immunodetection. *Appl Environ Microbiol*, 62, 2356.
110. Lembert N. (1996) Firefly luciferase can use L-luciferin to produce light. *Biochem J*, 317 (Pt 1), 273.
111. Ford SR, Chenault KH, Bunton LS, Hampton GJ, McCarthy J, Hall MS, Pangburn SJ, Buck LM, Leach FR. (1996) Use of firefly luciferase for ATP measurement: other nucleotides enhance turnover. *J Biolumin Chemilumin*, 11, 149.
112. Conti E, Franks NP, Brick P. (1996) Crystal structure of firefly luciferase throws light on a superfamily of adenylate-forming enzymes. *Structure*, 4, 287.
113. Dement'eva EI, Zheleznova EE, Kutuzova GD, Lundovskikh IA, Ugarova NN. (1996) [Physicochemical properties of recombinant luciferase from the firefly *Luciola mingrelica* and its mutant forms]. *Biokhimiia*, 61, 152.
114. Rutter GA, White MR, Tavare JM. (1995) Involvement of MAP kinase in insulin signalling revealed by non-invasive imaging of luciferase gene expression in single living cells. *Curr Biol*, 5, 890.
115. Palhan VB, Sumathy S, Gopinathan KP. (1995) Baculovirus mediated high-level expression of luciferase in silkworm cells and larvae. *Biotechniques*, 19, 97.
116. Lembert N, Idahl LA. (1995) Regulatory effects of ATP and luciferin on firefly luciferase activity. *Biochem J*, 305 (Pt 3), 929.