

Active Recombinant Gaussia Luciferase Protein, Streptavidin-Labeled

Cat. No. Luciferase-105G **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Gaussia(M2)-Luciferase-Streptavidin is a conjugate of one of the brightest luciferases and a protein with the highest known affinity in nature. in vitro fusion of two independently expressed proteins in different organisms Gaussia(M2)-Avitag-biotin-Streptavidin
Species	Gaussia
Description	Gaussia Luciferase is a new reporter gene isolated from the marine copepod Gaussia princeps.
Form	Clear liquid
Bio-activity	Recommended CTZ concentration for luminometer: 50 μ M Around 3-fold brighter than wildtyp GLuc-SA Binding efficiency greater than 90% Very sensitive: use 0.1 to 1 ng of GLuc-SA for biotin coated plates
Applications	This fusion protein can be used to detect trace amounts of biotinylated protein, DNA, or other biotinylated bio-molecules.
Storage	Store protein at -80 centigrade for maximum shelf-life, avoid repeated freezing
Concentration	1 mg/mL

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Storage Buffer TBS, pH 7.8 + nonproteinogenic stabilizers

Dilutions TBS or Gaussia dilution buffer

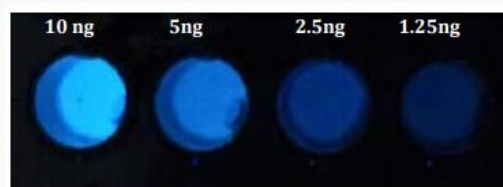
GENE INFORMATION

Official Symbol Luciferase

Synonyms Luciferase; Gaussia luciferase; GLuc

**Biotin coated plate
binding activity
comparison**

**Dilution series (1:2)
of GLuc-SA in a
black 96-well plate**



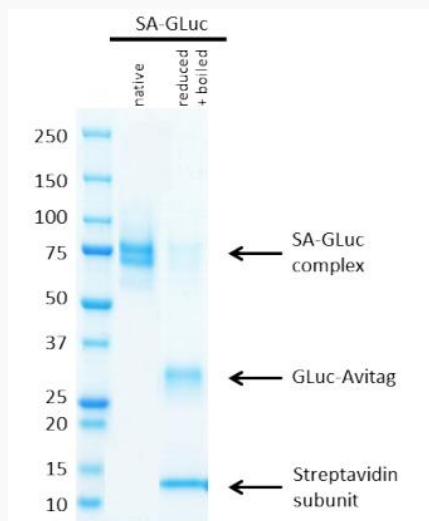
Picture was taken with a regular camera.

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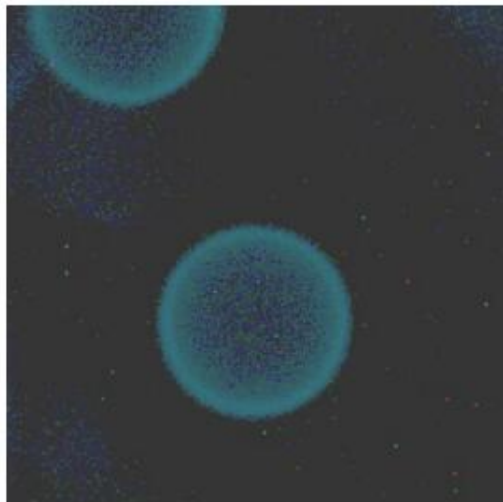
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**Representative SDS
PAGE of GLuc-SA in
native and reduced
and oxidized form**



One GLuc-SA molecule consists of one GLucAvitag protein (27 kDa) and 4 Streptavidin subunits (13 kDa).

**Biotin-Agarose
beads (100 µm)
coated with SA-GLuc
examined with Nikon
microscope with no
filter in total
darkness.**

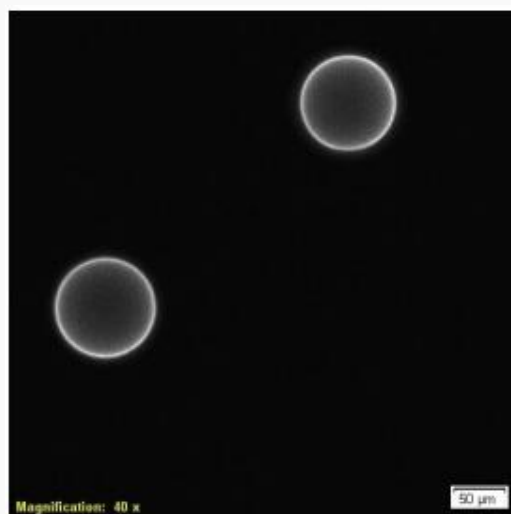


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**Biotin-Agarose
beads (100 μ m)
coated with GLuc-SA
examined with
Olympus LV-200
bioluminescence
imaging**



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