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This product is **for research use only** (not for diagnostic or therapeutic use) **contact: support@agrisera.com**

Agrisera AB | Box 57 | SE-91121 Vännäs | Sweden | +46 (0)935 33 000 | www.agrisera.com

**Product no AS18 4227**

# GFP | Green fluorescent protein (VENUS)

## Product information

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|---|---|
| **Immunogen** | Full length, recombinat VENUS protein, expressed in *E.coli,* UniProt: P42212 |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Purity** | Immunogen affinity purified serum in PBS pH 7.4. |
| **Format** | Lyophilized |
| **Quantity** | 50 µg |
| **Reconstitution** | For reconstitution add 50 µl, of sterile water |
| **Storage** | Lyophilized antibody can be stored at -20°C for up to 3 years. Once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please remember to spin the tubes briefly prior to opening them to avoid any losses that might occur from material adhering to the cap or sides of the tube. |

## Application information

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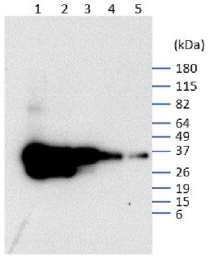
| **Recommended dilution** | 1 : 1000 (WB) |
| **Expected \| apparent MW** | 26 kDa |
| **Confirmed reactivity** | cell lysate overexoressing Venus protein fusion |
| **Not reactive in** | No confirmed exceptions from predicted reactivity are currently known |
| **Selected references** | Baiden et al. (2022) Heterologous expression of antimicrobial peptides S-thanatin and bovine lactoferricin in the marine diatom Phaeodactylum tricornutum enhances native antimicrobial activity against Gram-negative bacteria, Algal Research, Volume 69, 2023, 102927, ISSN 2211-9264, https://doi.org/10.1016/j.algal.2022.102927. |

**Application example**




200 ng mVenus YFP protein **(1)**; 100 ng mVenus YFP protein **(2)** ; 49 ng mVenus YFP protein **(3)** ; 24 ng mVenus YFP protein **(4)** ; 12 ng mVenus YFP protein **(5)**
MW markers: BenchMark™ Pre-stained Protein Ladder (10748010)
>0.200 – 0.012 µg of total protein from a pure stock of mVenus YFP protein in 1x SIGMAFAST EDTA-free Protease Inhibitor (S8830-2TAB) and denatured with 1x reducing Laemmli SDS buffer at 90°C for 10 min, and insoluble material pelleted at 20,000 xg for 15 min. Samples were run to separation on a 4-12% SDS-PAGE gel and blotted 7 mins to PVDF using ThermoFisher iBlot high voltage Protocol 3. Blot was blocked with 7.5 % milk in TBS-T for 20mins/RT with agitation. Blot was incubated in the primary antibody (i.e. Rabbit anti-Venus IgG) at a dilution of 1:10 000 with 7.5 % milk in TBS-T ON/4°C with agitation. The antibody solution was decanted and the blot was rinsed briefly three times, then washed once for 15 min and 3 times for 5 min in TBS-T at RT with agitation. Blot was blocked with 7.5 % milk in TBS-T for 20mins/RT. Blot was then incubated in Agrisera matching secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated) diluted to 1:10 000 in TBS-T for 2.5h/RT with agitation. The blot was washed as above, then as above with TBS, and developed for 5 min with chemiluminescent detection reagent, according to manufature's instruction.
Exposure time was approximately 3 seconds.

Courtesy of Dr. Dr Nanakow Baiden at Rothamsted Research, UK