# REFERENCE

AntibodySystem
Recombinant Proteins & Antibodies

# Structural tuning of bridging linkers on M13 phages for high-affinity detection of enterovirus

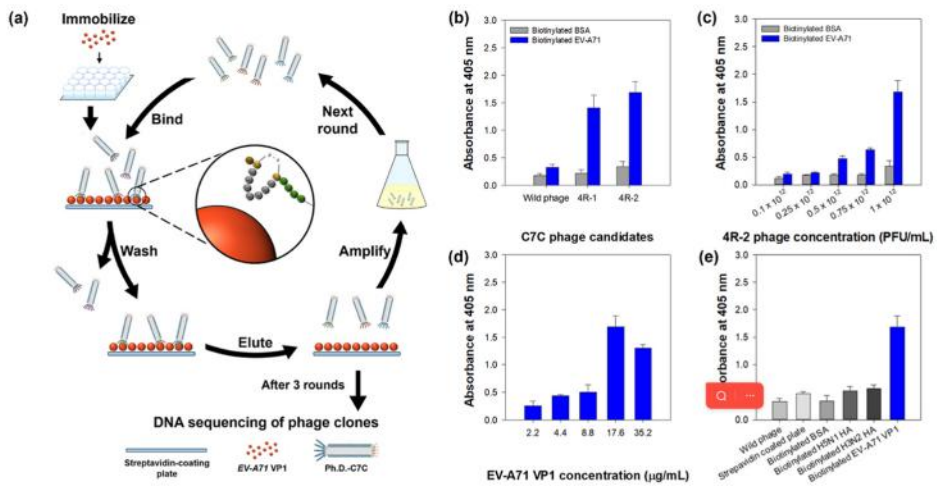
Talanta **IF 6.1**

This study reports a PEG4-biotin-functionalized M13 bacteriophage biosensor for colorimetric detection of enterovirus A71. Phage-display identified VP1-specific ligands, while structural optimization of bridging linkers minimized steric hindrance. The sensor demonstrated strong linearity for VP1 protein (0.03-3.91 nM) and intact virions ($10^2$-$10^6$ PFU/mL), with detection limits of 0.22 nM and ~$10^2$ PFU/mL, enabling rapid, sensitive on-site enterovirus monitoring in public health surveillance.

The AntibodySystem offers 1 product that contribute to this study.

## Cited Products

【YVV20301】 Recombinant EV71 VP1/Capsid protein VP1 Protein, N-His




Selection and ELISA-based characterization of C7C phage clones targeting EV-A71 VP1

## Recommend Product

【RVV20301】 Anti-EV71 VP1/Capsid protein VP1 Antibody (D5)
【RVV20302】 Anti-EV71 VP1/Capsid protein VP1 Antibody (MA28-7) (RVV20302)
【YVV20301】 Recombinant EV71 VP1/Capsid protein VP1 Protein, N-His

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