

Product Data Sheet

Cat#: AD-118-U
Cat#: AD-118-B, Biotin labeled
Cat#: AD-118-F, FITC labeled
Product Description: Hen Egg White Lysozyme (lys11-2)

Aptamer Type: DNA

Sequence: 5'-
GGACCTCGGCGAAAGCTAACGTCTCATGGCTAAATTGCCATGTTGCTACAAATGATATGACTAGAGAGGTTAGGTGCCTCGTGATG
TCCAGTCGC-3'; 95-mer

Size 100 nM

Mol. Wt: n/a

Purity: >95%

Affinity: n/a

Comments: n/a

Notes: To augment selected nucleic acids with protein functionalities a technique for the selection of protein-dependent ribozyme ligases is used here. Hen egg white lysozyme protein cofactor were activated several thousand fold by their cognate protein effectors, and could specifically recognize the structures of the native proteins. Protein-dependent ribozymes can potentially be adapted to novel assays for detecting target proteins, and the selection method's generality may allow the high-throughput identification of ribozymes capable of recognizing a sizable fraction of a proteome.

References: Robertson and Ellington. "In vitro selection of nucleoprotein enzymes." Nature Biotechnology, 19(2001): 650-655. Hesselberth et al. "Simultaneous detection of diverse analytes with an aptazyme ligase array." Analytical Biochemistry, 312(2003): 106-112.

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