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# DNA Aptamer against Hepatitis C virus (HCV) Envelope Surface Glycoprotein E2

**SKU# APT-036:** DNA Aptamer against Hepatitis C virus (HCV) Envelope Surface Glycoprotein E2

## Background

The Hepatitis C virus (HCV) envelope surface glycoprotein E2 is a transmembrane protein that plays a key role in the entry of the virus into host cells. E2 is a heavily glycosylated protein with a hydrophobic C-terminal anchor and a highly glycosylated N-terminal ectodomain. The E2 core has a compact architecture, with a central Ig-fold  $\beta$ -sandwich flanked by two additional protein layers.

**Aptamer type:** DNA aptamer

**Aptamer length:** 88 bp

**Affinity KD:** 1.05 $\pm$ 0.40 nM

## Kit contents

The following components are included in the Kit.

	Component	Quantity
APT-036-10	Single strand DNA, lyophilized powder	10 nmol
APT-036-30	Single strand DNA, lyophilized powder	30 nmol

- Store at -20°; reagents are guaranteed stable for 12 months when properly stored.

## References

Chen, F. et al., CS-SELEX Generates High-Affinity ssDNA Aptamers as Molecular Probes for Hepatitis C Virus Envelope Glycoprotein E2. 2009, PLoS ONE 4(12): e8142.