

## Product Data Sheet

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**Cat#:** AD-106-U

**Cat#:** AD-106-B, Biotin labeled

**Cat#:** AD-106-F, FITC labeled

**Product Description:** MT32 protein of Apple Stem Pitting Virus (ASPV)

**Aptamer Type:** DNA

**Sequence:** 5'-GGGGTGGTGGGTTCTTTTTGTGGTATTGGTGTGGGGGGCA-3'; 40-mer

**Size** 100 nM

**Mol. Wt:** 12619.23 g/mole

**Purity:** >95%

**Affinity:** 55 nM (reported value)

**Comments:** Most likely forms a g-quartet.

**Notes:** SELEX procedure was used to determine aptamers that bind the virus coat protein of apple stem pitting virus (ASPV coat protein coding sequences of MT32 isolate from apple (AF438521) and PSA-H isolate from pear (D21828)) as an alternative to antibody based immunoassays. Diagnosis methods, such as dot and Western blot analyses and enzyme-linked oligonucleotide assay (ELONA) were used of which ELONA was flexible and cost effective. The G tetrad represented the key structural motif for target binding

**References:** Balogh, et al. "Selection and versatile application of virus-specific aptamers." FASEB Journal, 24 (2010): 4187-4195.

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