

## APTAMER INFORMATION TNT aptamer\_2697

## a. Description:

- *Identifiers*: TNT\_2697
- <u>Number of RNA nucleotides</u>: 32 bases
- Target for selection: 2, 4, 6-Trinitrotoluene (Cerilliant Corporation, Cat# ERT-022S)

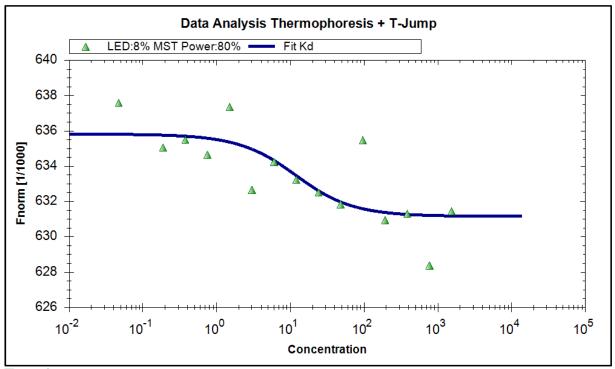
Aptamer was proudly selected at Base Pair by M.S. from a randomized 32-mer RNA library against 2, 4, 6-Trinitrotoluene. Proprietary methods were then used to select the aptamer.

## Aptamer folding instruction before use:

Once the aptamer is in its working concentration, it needs to be heated to 85-90 °C for 2 minutes and then cooled to room temperature before use.

## 1b. Validation data with 2, 4, 6-Trinitrotoluene by MST (Microscale Thermophoresis) method:

- <u>Buffer used for validation</u>: 1X PBS, pH = 7.4, 1 mM MgCl<sub>2</sub>
- Average K<sub>d</sub> = 5.7 ± 2.1 nM



**Figure 1.** Aptamer-TNT binding. The thermophoresis is plotted versus the titrated 2, 4, 6-Trinitrotoluene concentration.

