

EpiDyne® Remodeling Assay Substrate DNA ST601-GATC1

| Catalog No | 18-4101 | Species | Human |
|---------------|-------------|---------|---------------|
| Lot No | 22175003-03 | Source | Synthetic DNA |
| Pack Size | 50 μg | Tag | None |
| Concentration | N/A | MW | 133,958.56 Da |

DESCRIPTION

EpiDyne® Remodeling Assay Substrate DNA ST601-GATC1 is a 217 base-pair double-stranded DNA fragment. The sequence includes an upstream 6 bp linker, the 145 bp ST601 nucleosome positioning sequence, identified by Lowary and Widom [1], and a downstream 66 bp linker (hereby named 6-N-66 DNA). The DNA also includes a 3' acceptor sequence to accommodate the histone octamer subsequent to remodeling. This positive control has a DpnII restriction site within the 601 sequence. When paired with the negative control (EpiCypher 18-4100), these controls illustrate the migration range for the Restriction Enzyme Assay. For more information, see the EpiDyne Nucleosome Remodeling Assay Tech Note: epicypher.com/resources./technical-notes/

TECHNICAL INFORMATION

Storage Stable for 2 years at -20°C from date of receipt. After resuspending, aliquots should be stored at

-80°C.

Formulation 50 µg lyophilized ST601-GATC1 DNA.

APPLICATION NOTES

ST601-GATC1 DNA is useful as a positive control for restriction enzyme accessibility nucleosome remodeling assays using the Biotinylated EpiDyne Remodeling Assay Substrate (EpiCypher 16-4101). A DpnII restriction enzyme site (GATC in red, below) and the naturally occurring Mfel restriction site (AATTGG in bold, below) are present within the 601 sequence.

DNA SEQUENCE

REFERENCES

[1] Lowary & Widom. J. Mol. Biol. (1998). PMID: 9514715

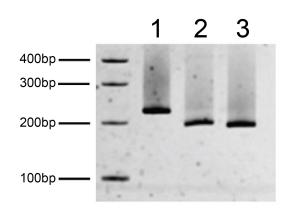


FIGURE 1: DNA gel data. ST601-GATC1 6-N-66 DNA resolved via native PAGE gel and stained with ethidium bromide to visualize DNA. Lane 1: Free DNA (100 ng). Lane 2: Free DNA incubated with 2U DpnII for 3 hr at 37°C (100 ng). Lane 3: Free DNA incubated with 2U Mfel for 3 hr at 37°C (100 ng). Migration patterns of DNA molecular weight markers are indicated.