

## **SUPPLEMENTAL DATA**

Supplementary data includes 4 movies.

### **SUPPLEMENTAL FIGURE LEGENDS**

**MOVIE M1. Movie showing downstream translocation of FITC-Tid1.**

**MOVIE M2. Movie showing upstream translocation of FITC-Tid1.**

**MOVIE M3. Movie depicting the dependence of FITC-Tid1 translocation on ATP.**

**MOVIE M4. Movie depicting complex translocation behavior by FITC-Tid1.**