

## **Description of Additional Supplementary Files**

File Name: Supplementary Movie 1

Description: First of four possibilities for the trajectory of the unidirectional 8-shaped motion of molecular motor 1.

File Name: Supplementary Movie 2

Description: Second of four possibilities for the trajectory of the unidirectional 8-shaped motion of molecular motor 1.

File Name: Supplementary Movie 3

Description: Third of four possibilities for the trajectory of the unidirectional 8-shaped motion of molecular motor 1.

File Name: Supplementary Movie 4

Description: Fourth of four possibilities for the trajectory of the unidirectional 8-shaped motion of molecular motor 1.