

## Description of Additional Supplementary Files:

**File name:** Supplementary Data 1

**Description:** NMR spectra of intermediates 2a-c and products 3a-3c and 4a-4b

**File name:** Supplementary Data 2

**Description:** Source data of all the graphs shown in Figure 4

**File name:** Supplementary Data 3

**Description:** Source data of all the graphs shown in Figure 5