

$$\begin{array}{ccc}
 c_1 \otimes c_2 & \xrightarrow{f_1 \otimes f_2} & d_1 \otimes d_2 \\
 \sigma \downarrow & & \downarrow \sigma \\
 c_2 \otimes c_1 & \xrightarrow{f_2 \otimes f_1} & d_2 \otimes d_1
 \end{array}$$