$$((A) \times (B)) \times (C) \qquad \alpha \qquad (A) \times ((B) \times (C))$$

$$coh_{A,B} \times id_{(C)} \downarrow \qquad \qquad \downarrow id_{(A)} \times coh_{B,C}$$

$$(A * B) \times (C) \qquad (A) \times (B * C)$$

$$coh_{A*B,C} \downarrow \qquad \qquad \downarrow coh_{A,B*C}$$

$$(A * B * C) \qquad \qquad (A * B * C)$$