$$\frac{ \begin{array}{c|c} & \overset{}{\vdash} & \overset{}{p^{\perp}} \Downarrow & [\cdot][\cdot]p; \cdot} \\ & \overset{}{\vdash} & \overset{}{\vdash} & [\cdot][\cdot]p^{\perp}; p \end{array} \stackrel{*}{*} & \overset{}{\vdash} & \overset{}{\vdash} & \overset{}{\downarrow} & \overset{}{\vdash} & \overset{}{\downarrow} & \vdots \\ \hline \\ & \overset{}{\vdash} & \overset{}{\vdash} & p \otimes \mathbf{1} \Downarrow & [\cdot][\cdot]p^{\perp}; \cdot} \\ & \overset{}{\vdash} & \overset{}{\vdash} & p \otimes \mathbf{1} \oplus q \Downarrow & [\cdot][\cdot]p^{\perp}; \cdot} & \overset{}{\vdash} & \overset{}{\vdash} \\ & \overset{}{\vdash} & [\cdot][1:p \otimes \mathbf{1} \oplus q] \cdot; \cdot / /^{1} \vdash & [\cdot][\cdot]p^{\perp}; \cdot} \\ \hline & \overset{}{\vdash} & [\cdot][1:p \otimes \mathbf{1} \oplus q] \cdot; \cdot / /^{1} \vdash & [\cdot][\cdot] \cdot; p^{\perp} \\ \hline & \overset{}{\vdash} & [\cdot]^{1}p^{\perp} \Downarrow & [\cdot][1:p \otimes \mathbf{1} \oplus q] \cdot; \cdot} \\ & \overset{}{\vdash} & [\cdot][\cdot] \cdot; ?^{1}p \otimes \mathbf{1} \oplus q, !^{1}p^{\perp} \end{array} \stackrel{*}{*} \\ \end{array}$$