$$
\begin{tikzcd}
 & & & & kRvQRfR & & & & \\
 & & & kvQRfR \arrow[ur] & & & & & \\
 & & wgQRfR \arrow[ur, "\beta"] & & & & & & \\
 & & & & kRvQfR \arrow[uul, "\sim"'] & & & & \\
 & wQgQRfR \arrow[ur] \arrow[dl, "\sim"'] & & & & & & & \\
 & & & wgQfR \arrow[uul] \arrow[r, "\beta"] & kvQfR \arrow[uul] \arrow[ur] & & & & \\
wQgRfR & & wgQfR \arrow[ur] & & & kRvQfQR \arrow[uul, "\sim"'] \arrow[dl] & & & \\
 & wQgQfR \arrow[ul, "\sim"'] \arrow[ur] \arrow[dl] & & & & & & & \\
wQgfR \arrow[uul, "\sim"] \arrow[uur, "\sim"'] & & wgQfQR \arrow[uul] \arrow[r, "\beta"] & kvQfQR \arrow[uul] \arrow[ur] \arrow[d] & kRvfQR \arrow[r, "\alpha"] & kRhuQR \arrow[r] & kRhRuQR & & kRhRuQ \arrow[ul, "\sim"'] \\
 & wQgfQR \arrow[ul, "\sim"] \arrow[r] \arrow[d] & & & & & & khRuQ \arrow[ur] \arrow[ul, "\sim"] & \\
 & & wgfQR \arrow[r, "\beta"'] & kvfQR \arrow[r, "\alpha"'] \arrow[ur] & khuQR \arrow[r] \arrow[ur] & khRuQR \arrow[ur] & & &
\end{tikzcd}
$$