

[[the relative of his]] =

$$\begin{aligned}
 & \frac{[]}{\triangleright v} \parallel \frac{[]}{\eta} \parallel \left(\frac{\frac{\mathbf{1}_u []}{(\mathbf{some} (\lambda x. []))^{\triangleright u}}}{x} \parallel \frac{[]}{\text{rel}} \parallel \frac{[]}{\frac{\mathbf{pro}_k \star \lambda z. []}{z}} \right)^{\Downarrow} \rightsquigarrow \frac{[]}{\triangleright v} \parallel \frac{[]}{\eta} \parallel \left(\frac{\mathbf{1}_u []}{\lambda g. \{ \langle x, g^{u \mapsto x} \rangle \mid \text{rel} (g \ k) \ x \}} \right) \\
 & \rightsquigarrow \frac{\mathbf{1}_u []}{(\eta \ \text{sm.rel.pro}_k^{\triangleright u})^{\triangleright v}}
 \end{aligned}$$