$$
\begin{aligned}
l &\in \mathcal{L} \\
k &\in K \\
p &::= l \mid \texttt{\$}x \mid \texttt{()} \mid \texttt{(}p\texttt{)} \mid p\texttt{,}p \mid \texttt{for } \texttt{\$}x \texttt{ in } p \texttt{ return } p \\
&\quad \mid \texttt{let } \texttt{\$}x \texttt{ := } p \texttt{ return } p \mid \texttt{if (}p\texttt{=}p\texttt{) then } p \texttt{ else } p \\
&\quad \mid \texttt{element } p \texttt{ \{}p\texttt{\}} \mid \texttt{name(}p\texttt{)} \mid \texttt{annot } k\ p \mid p\texttt{/}s \\
s &::= ax\texttt{::}nt \\
ax &::= \texttt{self} \mid \texttt{child} \mid \texttt{descendant} \\
nt &::= l \mid \texttt{*}
\end{aligned}
$$