

	Stock concentration	Final concentration	Volume
Reaction volume	-	-	500 $\mu$ L
10 $\times$ buffer	10 $\times$	1 $\times$	50 $\mu$ L
dNTP mix	10 mM	0.2 mM	10 $\mu$ L
High fidelity DNA polymerase	1.25 U/ $\mu$ L	0.025 U/ $\mu$ L	10 $\mu$ L
Primer 1	10 $\mu$ M	0.4 $\mu$ M	20 $\mu$ L
Primer 2	10 $\mu$ M	0.4 $\mu$ M	20 $\mu$ L
Template	100 ng/ $\mu$ L	1 ng/ $\mu$ L	5 $\mu$ L
Water	-	-	385 $\mu$ L