

Product Group

Q5

Polymerase/Kit

Q5 High-Fidelity DNA Polymerase

Primer Concentration (nM)

500

Primer Pairs

Type/paste sequences below or load primer pairs from file:

Choose File No file chosen

Interleaved data (one primer per line)

P1fwd; AGCGGATAACAATTTACACAGGA; P1rev; GTAAACGACGGCCAGT  
pBeta; AGCGGATAACAATTTAC  
P3fwd; AGCGGATAAGGGCAATTTAC; P3rev; GTAAACGACGGCCA

5 primers processed. Errors: 1 Warnings: 1

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ID	Sequence	Tm	Ta	Notes
P1fwd	AGCGGATAACAATTTACACAGGA	66	63	OK
P1rev	GTAAACGACGGCCAGT	62	63	OK
pBeta	AGCGGATAACAATTTAC	57	---	Primer 2 missing. -- Both primers need to be longer than 7 nt
P3fwd	AGCGGATAAGGGCAATTTAC	65	60	OK--Tm difference is greater than the recommended limit of 5 °C.
P3rev	GTAAACGACGGCCA	59	60	OK--Tm difference is greater than the recommended limit of 5 °C.

Use of the Q5 High GC Enhancer often lowers the range of temperatures at which specific amplification can be observed, however the rule used to determine Q5 annealing temperatures ( $T_a = T_m\_lower + 1^{\circ}C$ ) typically yields values that will support specific amplification with or without the enhancer.