Taq Blend with Pfu (+dNTPs)

Product code	02-120 02-120-5
Size	200 U 5 x 200 U
Storage	-20℃
Product Description	Taq Blend with Pfu is optimized blend of Taq and Pfu DNA polymerases. The proof-reading 3'→5' exonuclease activity of Pfu increases the fidelity and robust amplification of Taq DNA polymerase. The reaction buffer has been formulated for robust yields and long PCR.
Concentration	5 U/µl
Buffer	35 mM Tris-HCl (pH 8.0), 50 mM KCl, 1 mM DTT, 0.1 mM EDTA, 50 % glycerol, 0.75 %Tween-20, 0.75 % Igepal CA-630
Component	**Taq Blend with Pfu**: 5 U/µl Taq and Pfu DNA polymerase (02-Tbp 40 µl) **5 x Reaction Buffer for Taq Blend with Pfu** (02-Blb 2 ml) **dNTPs (2.5mM each)** (02-Dnt 640 µl)
Quality Assurance	Greater than 95% purity as determined by SDS-PAGE (CBB staining). The absence of endonucleases 3→5amplification was attained with λ DNA template was confirmed.
PCR product	Good amplification result was obtained in PCR reaction using λ phage DNA as a template (Fig.2).
Data	**Experimental Example** Robustness of Taq Blend with Taq as compared Taq Economy. PCR conditions 94℃ 1 min → 98℃ 5 sec / 68℃ 4-20 min (30 cycles) (extention time at 68℃) 2-8kbp:4min 10-14kbp:7min 16-18kbp:10min 20-35kbp:20min Result Taq Blend with Pfu could amplify up to 35 kb template while Taq could amplify up

2 4 6 8 10 12 14 16 18 20 25 30 35

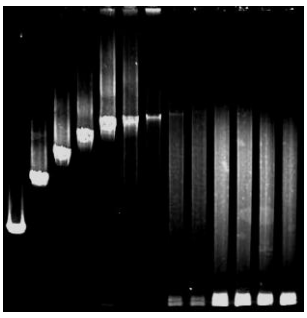

Fig.1

2 4 6 8 10 12 14 16 18 20 25 30 35

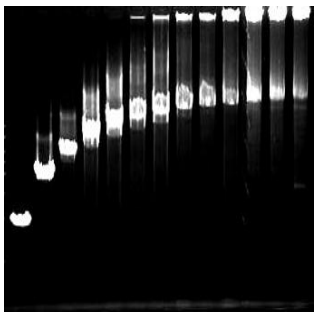

Fig.2

Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.

BioAcademia,Inc. Tel. 81-6-6877-2335 Fax. 81-6-6877-2336 info@bioacademia.co.jp https://www.bioacademia.co.jp/en/