Indominus™ Ultra-Fi PCR Kit

for research use only

The recently developed Indominus™-Polymerases are next-generation designer proofreading polymerases that combines high speed and efficiency with a superior amplification fidelity and high amplification speed. The Indominus I polymerase has additional improvements towards inhibitor resistance and the Indominus II polymerase an improved specificity. They are recommended for high fidelity applications like cloning or NGS.

The kit contains two 20X Enzyme Solution with two proprietary designer Hifi polymerases and a 10X Buffer which already contains dNTPs at an optimized concentration.

Product	Size	SKU
Indominus™ Ultra-Fi PCR Kit	100 rxn / 20 µl	TRAXSKU1040
	500 rxn / 20 µl	TRAXSKU1041

Additional Materials Required

- Nuclease-free PCR tubes or plates
- PCR cycler
- PCR primer & template DNA
- Filtered pipette tips
- Sterile, nuclease-free, DNA-free tubes for preparing the reaction mix

Storage

Store all components at -20°C and avoid repeated freeze and thaw cycles.

Reaction Setup

1) Thaw all components on ice and mix gently to ensure even distribution of all components. Prepare the reaction on ice in a sterile, nuclease free tube and mix gently after addition of the polymerase. Collect all liquid at the bottom of the tube by a quick spin. Keep the reaction on ice until you transfer it to the thermocycler.

Component	Volume	Final Concentration
10X Indominus Buffer incl. dNTPs	2 µl	1X
Primer 1 (10 µM)	1 µl	0.1 µM – 0.5 µM
Primer 2 (10 µM)	1 µl	0.1 µM – 0.5 µM
20X Enzyme Solution (Indominus I / Indominus II)	1 µl	1 X
template DNA	X µl	< 1 µg
dH_20		to 20 µl

2) Transfer the reactions to the thermocycler, then cycle according to these guidelines:

Step	Cycles	Temperature	Duration
Initial	1	94°C	5 minutes
Amplification	30-40	94°C	30 seconds
		T_m – 5°C	30 seconds
		72°C	20 sec / kb
Final Extension	1	72°C	5 minutes

Please note that adjustments to the program might be necessary depending on your application.

3) Analyze the amplification reaction by gel electrophoresis using an acrylamide or agarose gel of appropriate percentage or process accordingly.

Trax Lab Systems
www.traxlabsystems.com
sales@traxconnects.com
833-548-8378