gb GENETIC Human DNA

Clinical implications

The quantification of human DNA is significant especially in the field of forensic analysis but it could be also exploitable in any other discipline dealing with human DNA analysis. It is essential before sample analysis, when it is important to find out if human DNA is present in the sample and possibly in which amount. The POLR2A gene encodes for the largest subunit of RNA polymerase II, an enzyme responsible for synthesizing messenger RNA in eukaryotes.

Principle of detection

The kit is intended for detection of the specific section of the POLR2A gene in the human genomic DNA. Detection is based on **quantitative real-time polymerase chain reaction (qPCR) using fluorescently labelled probes.**

Available products

Cat. No.	Product	rxn
3142	gb GENETIC Human DNA	100

1 kit contains reagents to provide 100 PCR reactions (25 µl volume of each reaction).

Parameters of the diagnostic kit

- **ready-to-use assay**
- **positive and negative controls included**
- **detection in FAM channel**
- **internal positive control in HEX channel**

Content of the diagnostic kit

*	Component	Conc.	Purpose
🟢	Assay qPCR POLR2A	1.67×	Detection assay
⚪	Deionized Water		Negative Control
🔴	Standard Human PC	20 ng/µl	Positive Control

** Lid colour*



Tested on cyclers

- **CFX96/CFX96 Touch (Bio-Rad)**