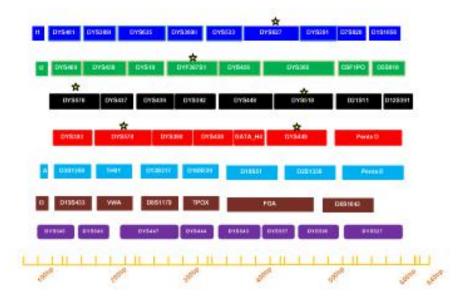
## Brief Introduction of AY60 STR Detection Kit



#### 1. Loci Arrangement Diagram of AY60



#### World premiere with revolutionary breakthrough

Using the latest self-developed 8-color fluorescence detection technology, combined with the Honor-1816 genetic analyzer, a total of 60 loci can be amplified in one time.

Breakthrough product that can complete the construction of high-quality autosomal database + Y chromosome database at the same time in one reaction, saving costs and improving the case handling efficiency of public security organs.

Good compatibility and higher accuracy, including 13 CODIS loci and 7 non-consensus loci commonly used in Chinese market.

19 required loci that meet the requirements of *Code of Practice for Biological Full Sibling Testing*.Fully compatible with the 20 core loci and 15 preferred loci required by the public security Y-chromosome database.Autosomal STRs are used for establishing identity, and Y chromosome STRs are combined for efficient investigation.



### 2. Features of AY60

 8-color fluorescence detection platform, which can simultaneously amplify 60 loci, including 20 autosomal STR loci, 29 Y-STR loci with low mutation rate (mutation rate less than 1%), 7 rapid mutant Y STR loci (mutation rate is higher than 1%), and 3 Y indel with very low mutation rate.

2. AY60 can complete the construction of high-quality autosomal database+ Y chromosome database at the same time in one reaction.

3. AY60 contains 35 core/preferred loci for Y-chromosome database construction.

4. Strong compatibility, compatible with the direct amplification of various samples and the amplification of purified DNA.

5. Rapid amplification, the whole process is 70min theoretically.



#### 4.1 Components and Contents of AY60 STR Detection Kit

Components of PCR Amplification Kit	100 Reactions	
2.5× PCR Mix	1000μL× 1	
5× Primers	500μL× 1	
PCR Grade Water	1000μL× 1	
Control DNA 9948(0.5ng/µL)	20μL× 1	
Taq DNA Polymerase	100μL× 1	

Components of PCR Detection Kit	100 Reactions	
Allelic Ladder	25μL× 1	
Orange-640	120μL× 1	
Components of Matrix Kit	Free of charge for the first time	
8 Dye Matrix	50µL× 1	



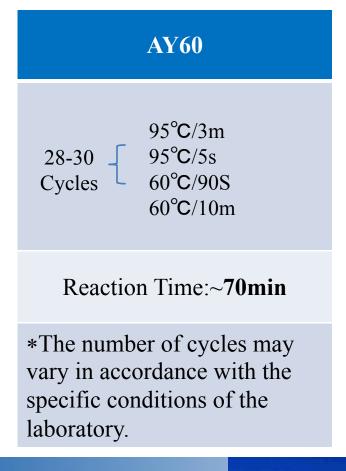
#### 4.2 Reaction System of AY60 STR Detection Kit

Component	25µL System	10µL System
2.5× PCR Mix	10.0	4.0
5×Primers	5.0	2.0
PCR Grade Water	8.0	2.6
Control DNA 9948(0.5ng/µL)	1.0	1.0
Taq DNA Polymerase	1.0	0.4
Total Volume	25.0	10.0

Note: Customers are not recommended to adopt reaction systems under 10µl.



### 4.3 Reaction System and Procedures of AY60 STR Detection Kit







# WE ARE JUST ON THE WAY THANK YOU.

Contact Us Website: http://www.dnatechlab.com/



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