

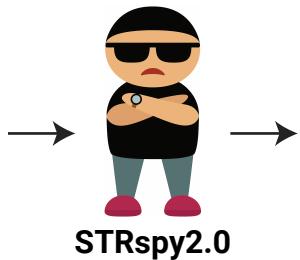
**a**

## Database construction



```

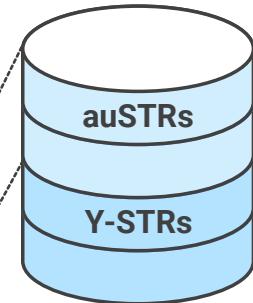
STR locus name      :: D13S317
Length-based allele :: 15
Minimum range bracket :: TATC[16]AATC[1]ATCT[3]
Bracketed record seq. :: TATC[16]AATC[1]ATCT[3]
Assembly           :: GRCh38 (GCF_000001405)
Chromosome         :: 13
Chrom. location    :: 82147955..82148144
ISFG minimum range :: 82148021..82148104
STR locus alt name :: D13
Historical bracketing :: [TATC]15
  
```



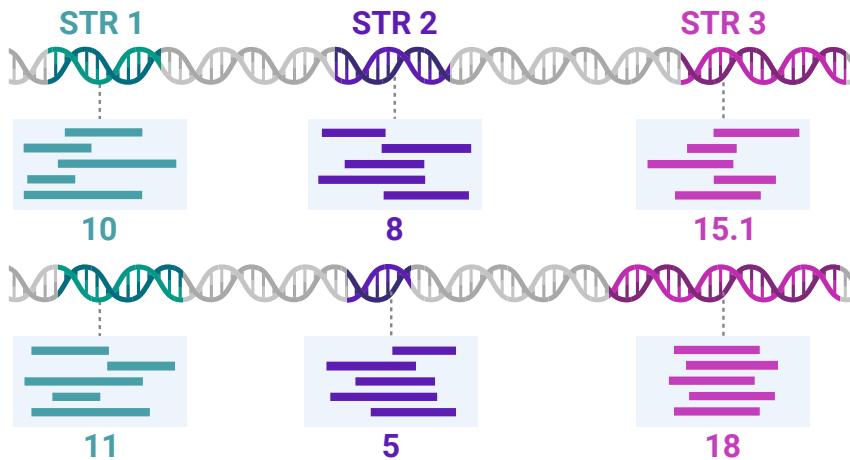
```

>MH167239.2_D13S317_[TATC]16_AATC_[ATCT]3_15
500bp flank...
sequence-based allele
...500bp flank
  
```

...

**b**

## STR genotyping



LOCUS	ALLEL	FREQUENCY TABLE	
		raw	normalized
STR 1	10	1725	1.0
	11	1380	0.8
STR 2	8	1070	1.0
	5	428	0.4
STR 3	15.1	1602	1.0
	18	901	0.5