# Sizing DYS627

November 2026

| Reference | STR Locus | Comments |
|---|---|---|
| NCBI Bioproject 380347 | DYS627 is not included in the NIST/NCBI Bioproject database | ISFG/NIST state that there have not been enough observations of this locus in profiles to make a definitive statement about what the true reference structure should be. (Gettings et al., |
| FSSG Previous to V5 (June 5, 2019) | [AGAA]n N16 [AGAG]n [AAAG]n N82 [AAGG]n | The GenBank reference sequence for this extent is:<br>[AGAA]3 N16 [AGAG]3 [AAAG]18 N82 [AAGG]3<br><br>The equivalent allele number presumably is **27.**<br><br>This definition includes an 8-base INDEL polymorphism (rs2015502831), which when the deletion state is present, it changes the allele number to **25** |
| FSSG V5 | [AGAG]n [AAAG]n | The GenBank reference sequence for this extent is: [AGAG]3[AAAG]18<br>The equivalent allele number is **21.**<br><br>This definition excludes the 8-base INDEL polymorphism (rs2015502831). However, PCR-CE kits may include rs2015502831, potentially causing discordance between CE and MPS allele numbers when the deletion state is present. |
| MixtureAce CombiSTR / mYSTR reporting | [AAAG]n<br>Or<br>[AGAG]n [AAAG]n<br><br>Configurable by user | The GenBank reference sequence for this extent is: [AAAG]18<br><br>The [AGAG]3 motif can be included or excluded in the MixtureAce analysis depending on user preference. This motif is apparently not polymorphic in the human population raising the question as to why it would be included in an allele count. However, the motif does stutter producing “N.2” stutter products because the logical “biological” repeat sequence is [AG]6. |
| Applied Biosystems Yfiler CE Kit | [AGAG]n [AAAG]n ? | YFiler reports allele number 21 for standard DNA 007 (Lee, McAnany et al. 2023). X.2 stutters are observed in the YFiler profiles, indicating that the [AGAG]3 (aka [AG[6]) motif is included in the allele number sizing calculation. |