Overview of mixtures generated in the 2p-5p PPF6C dataset.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Dataset number** |  | **Number of contributors** | | | |  |
| 2 | 3 | 4 | 5 |  |
| **Mixture Type** | **Picograms DNA per contributor** | | | | **Number of mixture types** |
| A | 300:150 | 300:150:150 | 300:150:150:150 | 300:150:150:150:150 | 20 |
| B | 300:30 | 300:30:30 | 300:30:30:30 | 300:30:30:30:30 |
| C | 150:150 | 150:150:60 | 150:150:60:60 | 150:150:60:60:60 |
| D | 150:30 | 150:30:60 | 150:30:60:30 | 150:30:60:30:30 |
| E | 600:30 | 600:30:60 | 600:30:60:30 | 600:30:60:30:30 |
| **Type of dataset** | **Donor combinations used in the mixture** | | | | **Number of donor combinations (‘datasets’)** |
| 1 | ‘High’ allele sharinga | A:B | A:B:C | A:B:C:Dc | A:B:C:D:Ec | 6 |
| 2 | ‘Low’ allele sharingb | F:G | F:G:H | F:G:H:I | F:G:H:I:J |
| 3 | Random | K:L | K:L:M | K:L:M:N | K:L:M:N:Od |
| 4 | Random | P:Q | P:Q:Rd | P:Q:R:S | P:Q:R:S:T |
| 5 | Random | U:V | U:V:Wd | U:V:W:X | U:V:W:X:Y |
| 6 | Random | Z:AA | Z:AA:AB | Z:AA:AB:AC | Z:AA:AB:AC:ADd |
| **Number of replicates per sample** | | | | | | 3 |
| **Total number PPF6C profiles** | | | | | | 360-6=354 |
| a Dataset denoted ‘High allele sharing’ as the combination of donors A, B, C, D and E resulted in a relatively low total number of unique alleles across NGM loci, this is not necessarily true for PPF6C. | | | | | | |
| b Dataset denoted ‘Low allele sharing’ as the combination of donors F, G, H, I and J resulted in a relatively high total number of unique alleles across the NGM loci, this is not necessarily true for PPF6C. | | | | | | |
| c Raw data files not found and profiles removed from dataset: 1E4.1, 1E5.1 | | | | | | |
| d Profiles showed peaks with a poor shape (broad peaks at longest fragments) and were removed from the dataset: 3E5.1, 4E3.2, 5E3.2, 6E5.1. | | | | | | |

File name:

1\_1A2

Not in de file name, but in the sample name, the height of AMEL X is included at this location

‘2’ indicates the number of contributors

(2, 3, 4 or 5)

‘A’ indicates mixture type, mixture proportion and contribution

(A, B, C, D or E)

‘1’ indicates dataset number, i.e. the donor combination that was used

(1, 2, 3, 4, 5 or 6)

‘1\_’ indicates the replicate number

(1\_, 2\_ or 3\_)