

SNP R-U106 (8928037-C-T)

## NOTES:

- 1. Where SNP / InDel Y-chromosome positions are cited, these relate to Human Reference Genome 'Build 38' (hg38 / GRCh38).
- 4. Within blocks of 'equivalent' SNPs and / or STR mutations, the mutations could have occurred in any order.
- 5. It is likely that bases marked with this note participated in a Multiple Nucleotide Polymorphism (MNP). However, since it is much easier for SNP interpretation software to handle single base substitutions rather than complex mutations, they are usually treated as separate SNPs.
- 9. Placement of this mutation subject to further investigation.
- 13. Mutation(s) may have occurred further up the tree.
- 14. Purported SNP within the 125 bp repetitive zone known as DYZ19 (20054914 to 20351054 (hg38)). Cannot be confirmed by Sanger Sequencing.
- 18. A defining SNP or InDel appears to exist on the Y-chromosome, but its location is uncertain. (Frequently this is because it is on a palindromic arm). Unlikely to be suitable for individual (Sanger Sequence) testing.
- 25. Combination of DYS437: 15>14, DYS425: 12>11 and DYS643: 10>11 indicates SNP JFS0083 beyond JFS0086 in this subclade.

## **IMPORTANT NOTICES**

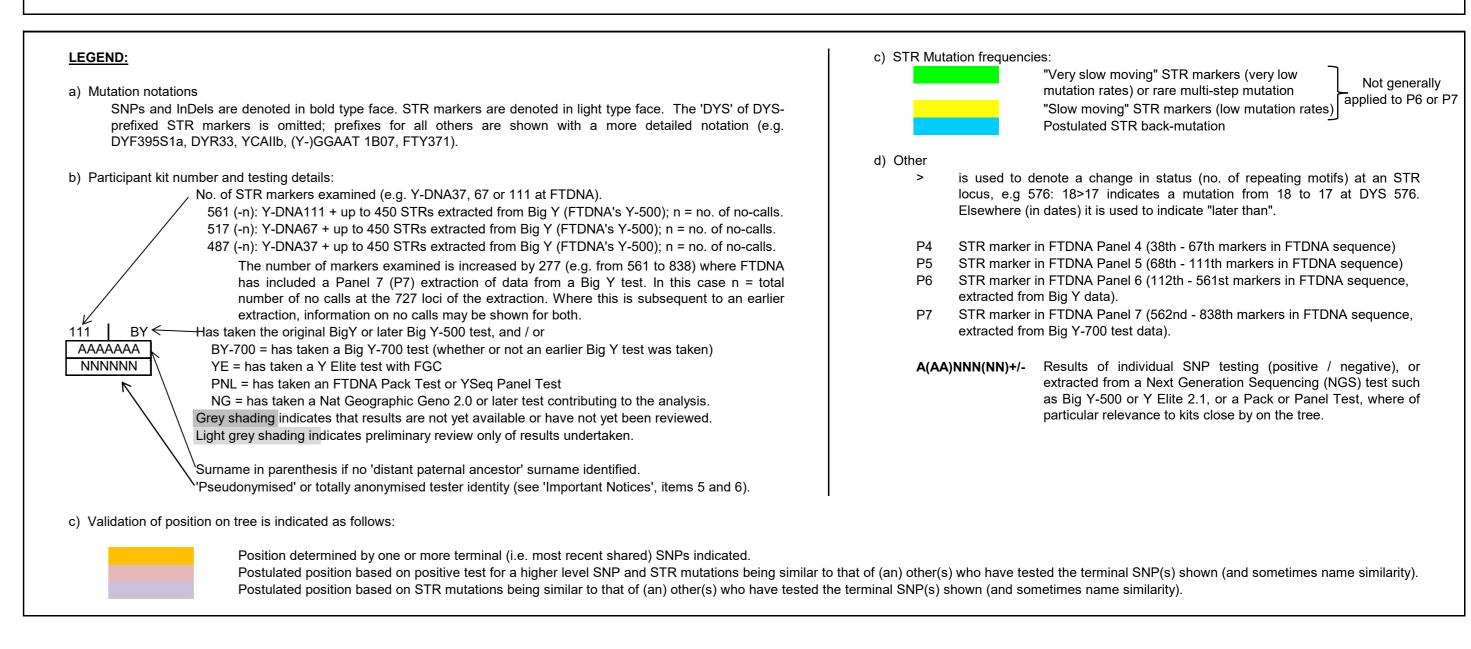
- 1. The genetic data used to construct this tree comes principally from Family Tree DNA (FTDNA). Some data has come from testing at YSEQ. Any substantial SNP testing elsewhere will be as indicated by
- 2. The tree serves McCarthy members of the McCarthy Surname Study in haplogroup R-U106. It shows the probable pathway of its members' paternal genetic ancestries from the time of SNP R-U106. To provide such information, additional data has been mined from other projects displaying it in the public domain; in this respect, thanks are due to the haploytpe owners and their project administrators for making their data available in the spirit of 'citizen science' for the mutual benefit of all concerned. Participant identities abide by the criteria of (5) below. Projects from which haplotypes have been taken include but are not limited to the R U106 Y-DNA Haplogroup and R U198 and Subclades projects, and those pertinent to the following surnames: Boyd, Cunningham.
- The overall tree structure is based on FTDNA's Haplotree, for which thanks are duly given. The number of equivalent SNPs in each 'block' gives an idea of the length of time between each level on the tree. It is recognised that FTDNA's Haplotree is a live document and may be subject to development at any time. Responsibility for any errors arising from interpretation of data or failure to update to the latest available information rests with the Owner of this tree.
- The tree combines relationships based on STR testing with firm definition afforded by SNP testing. Only McCarthy test results for 37 Y-STR markers or more have normally been considered for inclusion on the tree. Where configurations are not confirmed by SNP testing, different permutations are possible. The reliability can only be improved by more participants testing STRs to 111 markers and Next Generation Sequence (NGS) testing such as FGC's Elite 2.1 and FTDNA's Big Y-700, identifying SNPs which give firm definition to the branches and twigs (subclades) of the tree.
- tester identity where the participant or his kit manager

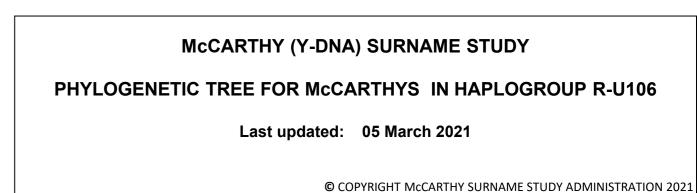
5. The 'pseudonymised' format of FTDNA kit no. plus Most Distant Known Paternal Ancestor (MDKA) surname (or where the latter is not available the tester's surname or simply the kit no.) has been used for

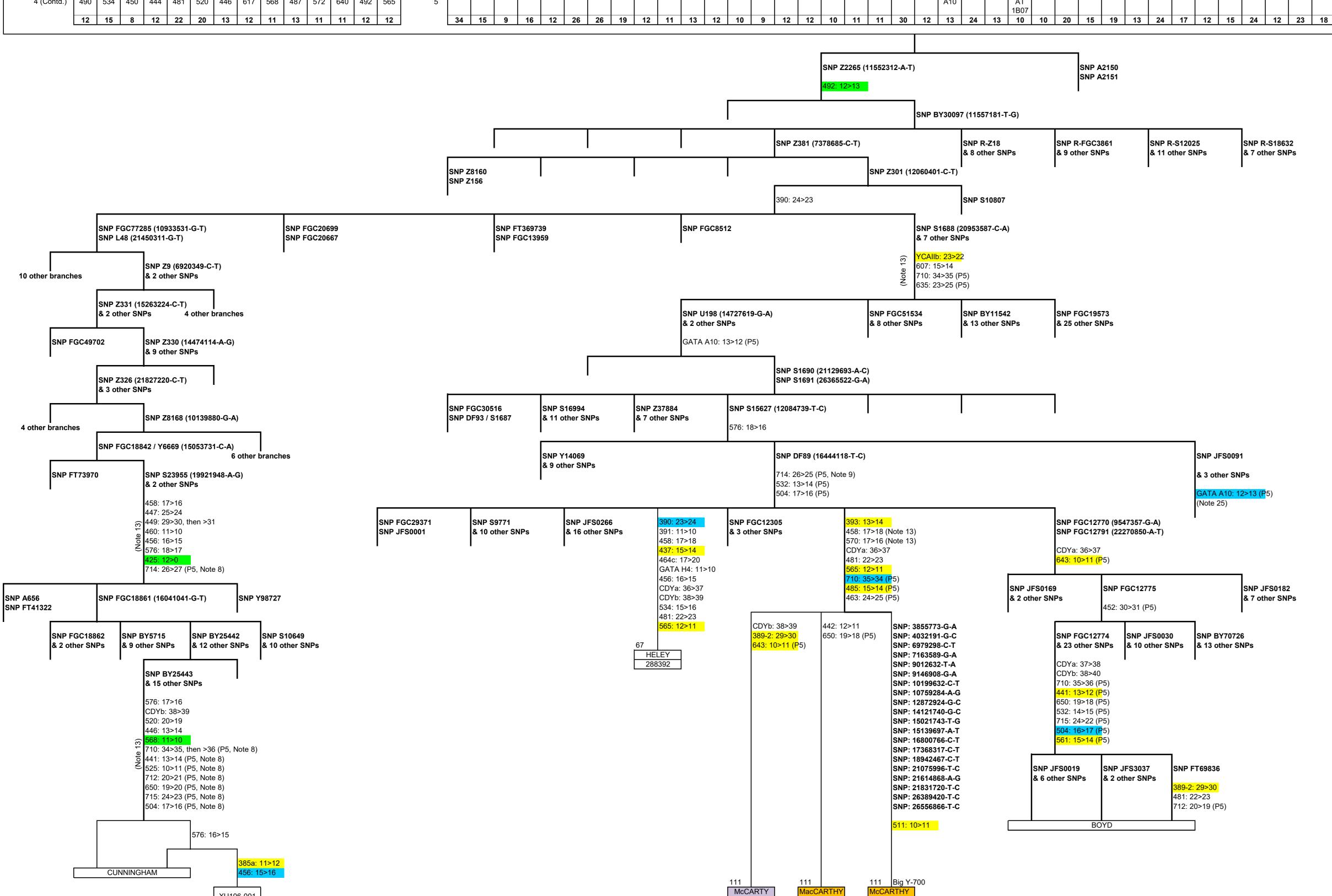
- (a) has opted in to allowing publication of his "pseudonymized DNA results and ancestor information in the public results pages" (and for data taken from other projects, where the project has allowed to publicly display its FTDNA Y-DNA Results spreadsheet)\* OR
- (b) has e-mailed to a McCarthy Surname Study analyst permission to display the output from the analyis of data from any source in the tree (see (6) and (7) below) OR
- has made results available to others (e.g. depositions in the 'Y-DNA Warehouse') in the knowledge their analyses, identifiable with surname and / or kit number, would be placed in the public domain.

## Otherwise identities of testers will be 'totally anonymised' with an 'XU106' series 'dummy' reference number known only to the McCarthy Surname Study analysts.

- \* Status of a participant's FTDNA privacy setting has been determined in a one-off exercise in or since 2018 (or for recent additions at the time a kit has been added to the tree). Should a participant / kit manager wish the tree respect a subsequent alteration to the setting or indeed have a kit removed altogether and any back-up records held by the McCarthy Study analysts expunged, will he / she please request this by e-mail. (See (7)).
- 6. Despite the option at 5 (a) having been selected in a participant's FTDNA Project Preferences, certain data to which the McCarthy Surname Study analysts may have access, e.g. FTDNA Panels 6 and 7 STRs extracted from Big Y testing, results of testing elsewhere, may not be available, or readily available, in the public domain. Inclusion of output from analysis of such data on the tree requires e-mailed authorisation using an appropriate form of words which can be supplied to the participant or his kit manager. See (7) for contact details.
- For the identity and contact details of the McCarthy Surname Study analysts responsible for this tree please go to <a href="https://www.familytreedna.com/groups/mccarthy-surname-study/about.">https://www.familytreedna.com/groups/mccarthy-surname-study/about.</a>







XU106-001