

## **R1b-U152 Project Groups**

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### **A group: U152+ L2- DYS 492 = 12**

Those people belong here who tested 67 markers, are confirmed negative for L2 and have 12 (or rarely 13) at their DYS 492 locus. This group can be called as U152\*, they do not have mutations upon which they could be assigned to any known U152 subgroup. Potential substructure of this group is under examination. The role of SNP L157 is under examination. Next step: no useful action possible this time, subdivision still in progress

### **A/D group: L2-, DYS 492 not tested**

People who tested negative for the L2 SNP but have not yet upgraded to 67 markers belong here. Without their DYS 492 result it is impossible to decide if they belong to A group or D group. DYS 492 can be ordered also separately for 7.20 USD, however, I use all 67 markers for subgrouping, therefore 37 to 67 upgrade is better for those who can financially afford it. If you have already tested DYS 492 as an advanced marker, please send me your result in e-mail.

Next step: please upgrade to 67-markers or order DYS 492 as an advanced marker.

### **A1 group: YCAII 19,22; La Tène Briton**

This group has a common ancestor around 300-200 BC in Britain. It has an interesting subgroup history as several markers tell the evolution of this clade. The Celt who brought the line to Britain was very close to the U152 modal, however, he had a distinctive YCAII=19,22. He had modal DYS 447=25 and DYS 511=10. Members 105479 (Brand), 28112 (Parker) 24162 (Clackson) retain this ancient feature. The latter two has an off-modal DYS 389ii=18, so they are closer to each other than to 105479 with MRCA around 1300 AD.

The next step in the group was the DYS 447: 25 → 26 mutation, most likely together with DYS 511: 10 → 9. From this point, evolution went into two directions:

- a) One man had a DYS 442: 12 → 8 deletion of 4 STRs as a single mutation event, accompanied by a GATA H4: 11 → 10. Members 28763 (Edmundson) and 107313 (Slee) belong to this group so far. MRCA around 1000 AD.
- b) DYS 447 mutated further 26 → 27. Members 130149 (Cowings), 133986 (Weir) and 134213 (Rowley) belong to this group. MRCA around 1200 AD.

The place of origin inside Britain and closer tribe affiliation is yet unclear, as members from each group turn up both in Southern and Northern England.

Next step: group members may consider pooling resources with one member taking part in W-T-Y test.

### **B group: DYS 492 = 12 or not tested, L2 not tested**

Those people belong here who have not yet been tested for SNP L2 (and consequently, L2's subgroup L20) and do not have a confirmed DYS 492 = 14, i.e. they have 12 or have not tested 67 markers. Without a result on L2 and L20, we can not say anything closer on the ancestry of this group.

Next step: who tested less than 67 markers, please upgrade to 67. Please order deep clade upgrade to test L2 and L20 (39 USD).

**C group: L2+ L20-**

People who have tested positive for L2 SNP and negative for L20 belong here. Available custom/advanced SNPs for this group are: L3, L135, L196, L209. Both L3 and L196 are positive in only one member each. We will try to find the closest members who have reasonable chance to be positive and ask them for custom SNP testing in private mail.

Next step: who tested less than 67 markers, please upgrade to 67. Anyone may test the four custom SNPs but chance for success (being positive) is low.

**C1 group: L20+**

Those L2 positive members belong here who also tested positive for L20. Available custom/advanced SNPs for this group is only M228.2. This was tested positive by one member and negative by two. We will try to find the closest members who have reasonable chance to be positive and ask them for custom SNP testing in private mail.

Next step: who tested less than 67 markers, please upgrade to 67. Anyone may test custom SNP M228.2 but chance for success (being positive) is low.

**C2 group: L2+ L20 not tested**

Those people who tested L2 positive but have not yet tested L20 SNP belong this group. Available custom SNPs for this group are those available for the above C and C1 group. To pay a deep clade upgrade only for L20 would be quite expensive, we will try to find a way to test for L20 separately and cheaper. Members will notified on the developments in private mail.

Next step: who tested less than 67 markers, please upgrade to 67. Wait for news on special deal regarding L20.

**C3 group: L20-; DYS 392=12; YCAII=19,19**

People in this group are L2+ L20- and have rare DYS 392=12 and YCAII=19,19 values. They have MRCA around 700 AD. So far, all members come from Switzerland, so we have to consider it as a special Swiss subgroup of L2. It can not be decided if it is an original Helvetii gene or it arrived only with the German Alamanni tribe from the north.

Next step: group members may consider pooling resources with one member taking part in W-T-Y test.

**C4 group: L20-; YCAII=19,24**

People in this group are L2+ L20- and have a distinctive YCAII=19,24. They have MRCA around 300-400 AD. It is found both on the Continent and in Britain, therefore a post-Roman arrival to the Isles is likely. Small chance for Belgic origin, better for Anglo-Saxon.

Next step: group members may consider pooling resources with one member taking part in W-T-Y test.

**D group: DYS 492 = 14**

This group contains those people who have DYS 492 = 14. This group is L2 negative (regardless if a person belonging here was tested for L2 or not) and forms a distinct subgroup of U152 people. A notable feature is its absence in Italy and the Alpine region, at least for the time being. New tests (members) later of course may change the picture. It is also the “parent group” of the L4+ subclade. We would need a Walk-Through-the-Y member from this group to discover the SNP which likely caused the DYS 492 change from 12 to 14. SNP L100 was found in an L4+ W-T-Y participant but it is yet unknown if L100 is upstream of, identical with or downstream of L4. One D group member has tested L100 negative.

Next step: members may consider taking part in the P312-W-T-Y project. Testing for L100 custom SNP may be useful but chance for being positive is limited.

Estimated age: 95-100 generations TMRCA, or 1000 BC.

**D1 group: L4+**

This is a subgroup of the DYS 492 = 14 group defined by the SNP L4. All confirmed L4+ people have also the rare DYS 454 = 12 and DYS 385a,b = 14,14. SNP L100 was found in an L4+ W-T-Y participant, so it would be interesting to see if every L4+ are also L100+ or L100 is only a family SNP downstream of L4. L4 is found primarily in Eastern Europe and seem to be connected to Jewish heritage.

Next step: L100 custom SNP test is recommended for every group member. Who tested less than 67 markers, please upgrade to 67.

Estimated age: 45 generations TMRCA, or 600 AD.

End of Report