

Irish Halls – Group 3 - Time to Most Recent Common Ancestor (Years)																			
ID	modal	m o d a l																	
		2877	7433	97262	2516	89766	28911	12081	74103	6397	82044	33273	3991	96543	3924	74102	N64064	113781	102641
		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
		b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
modal	37	690	630	360	1050	300	210	120	120	120	90	300	120	120	60	210	300	210	540
2827 John Thomas Hull R1b1	690	25	90	870	1410	540	870	870	870	870	690	690	690	690	690	870	1050	870	1320
7433 Woodrow Wilson Hull R1b1	630	90	37	720	1410	540	720	720	720	720	690	840	630	630	630	840	930	720	1320
97262 John Rosman Hull R1b	360	870	720	37	870	300	360	450	450	450	540	450	300	300	360	540	630	450	1320
2516 Richard Dwight Hull R1b	1050	1410	1410	870	25	1050	1050	870	870	870	1050	1050	1050	1050	1050	870	1230	1230	930
89766 George Gordon Hull R1b	300	540	540	300	1050	37	300	360	360	360	390	360	210	210	300	450	540	450	1320
28911 Philip Golden Hull R1b1	210	870	720	360	1050	300	37	210	210	210	240	300	120	120	210	360	450	360	540
12081 Murray James Hull R1b1	120	870	720	450	870	360	210	37	60	60	240	360	210	210	120	300	360	300	540
74103 Dan [nmn] Hull R1b1	120	870	720	450	870	360	210	60	37	60	240	360	210	210	120	300	360	300	540
6397 Jay Alton Hull R1b1b2	120	870	720	450	870	360	210	60	60	37	240	360	210	210	120	300	360	300	540
82044 Laurence Ollie Hull R1b1	90	690	690	540	1050	390	240	240	240	240	25	90	90	90	90	240	390	390	540
33273 Thomas Hugh Hull R1b1	300	690	840	450	1050	360	300	360	360	360	90	37	210	210	300	450	540	450	540
3991 Winfred David Hull R1b1	120	690	630	300	1050	210	120	210	210	210	90	210	37	60	120	300	360	300	540
96543 Charles Clinton Hull R1b1	120	690	630	300	1050	210	120	210	210	210	90	210	60	37	120	300	360	300	540
3924 Robert Eugene Hull R1b1	60	690	630	360	1050	300	210	120	120	120	90	300	120	120	37	210	300	210	540
74102 Paul [nmn] Hull R1b1	210	870	840	540	870	450	360	300	300	300	240	450	300	300	210	37	450	360	540
N64064 Jay G. Hull R1b	300	1050	930	630	1230	540	450	360	360	360	390	540	360	360	300	450	37	300	930
113781 Richard T. Hull R1b	210	870	720	450	1230	450	360	300	300	300	390	450	300	300	210	360	300	37	930
102641 Bruce William Hull R1b1	540	1320	1320	1320	930	1320	540	540	540	540	540	540	540	540	540	540	930	930	12

0-270 Years
300-570 Years
600-870 Years
900-1170 Years

- Infinite allele mutation model is used
- Average mutation rate varies: 0.0040 to 0.0054, from FTDNA derived rates
- Values on the diagonal indicate number of markers tested
- Probability is 50% that the TMRCA is no longer than indicated
- Average generation: 30 years

The Most Recent Common Ancestor is the closest direct paternal ancestor that two males have in common (such as a grandfather or g-g-grandfather). Generally, the closer the match is between two individuals, the shorter the time back to their most recent common ancestor. Some examples: if two

individuals share 35 out of 37 markers, they almost certainly share a more recent common ancestor than two individuals who share 32 out of 37 markers. Note: The time to a Most Recent Common Ancestor is based on probability and is not an exact science. TMRCA is better defined as a period of time rather than a specific time.

		Irish Hulls – Group 3 – Genetic Distance																																					
ID	modal	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37		
		R1b1	R1b1	JR1b	R1b1	R1b1	R1b1	R1b1	R1b1	R1b1	R1b1	R1b1	R1b1	R1b1	R1b1	R1b1	R1b1	R1b1	R1b1	R1b1	R1b1	R1b1	R1b1	R1b1	R1b1	R1b1	R1b1	R1b1	R1b1	R1b1	R1b1	R1b1	R1b1	R1b1	R1b1	R1b1	R1b1		
modal		37	4	7	4	6	3	2	1	1	1	1	0	3	1	1	0	2	3	2	1																		
2827 John Thomas Hull	R1b1	4	25	0	5	8	3	5	5	5	5	4	4	4	4	4	4	4	5	6	5	3																	
7433 Woodrow Wilson Hull	R1b1	7	0	37	8	8	6	8	8	8	8	4	9	7	7	7	9	10	8	3																			
97262 John Rosman Hull	R1b	4	5	8	37	5	3	4	5	5	5	3	5	3	3	4	6	7	5	3																			
2516 Richard Dwight Hull	R1b	6	8	8	5	25	6	6	5	5	5	6	6	6	6	6	5	7	7	2																			
89766 George Gordon Hull	R1b	3	3	6	3	6	37	3	4	4	4	2	4	2	2	3	5	6	5	3																			
28911 Philip Golden Hull	R1b1	2	5	8	4	6	3	37	2	2	2	1	3	1	1	2	4	5	4	1																			
12081 Murray James Hull	R1b1	1	5	8	5	5	4	2	37	0	0	1	4	2	2	1	3	4	3	1																			
74103 Dan [nmn] Hull	R1b1	1	5	8	5	5	4	2	0	37	0	1	4	2	2	1	3	4	3	1																			
6397 Jay Alton Hull	R1b1b2	1	5	8	5	5	4	2	0	0	37	1	4	2	2	1	3	4	3	1																			
82044 Laurence Ollie Hull	R1b1	0	4	4	3	6	2	1	1	1	1	25	0	0	0	0	1	2	2	1																			
33273 Thomas Hugh Hull	R1b1	3	4	9	5	6	4	3	4	4	4	0	37	2	2	3	5	6	5	1																			
3991 Winfred David Hull	R1b1	1	4	7	3	6	2	1	2	2	2	0	2	37	0	1	3	4	3	1																			
96543 Charles Clinton Hull	R1b1	1	4	7	3	6	2	1	2	2	2	0	2	0	37	1	3	4	3	1																			
3924 Robert Eugene Hull	R1b1	0	4	7	4	6	3	2	1	1	1	0	3	1	1	37	2	3	2	1																			
74102 Paul [nmn] Hull	R1b1	2	5	9	6	5	5	4	3	3	3	1	5	3	3	2	37	5	4	1																			
N64064 Jay G. Hull	R1b	3	6	10	7	7	6	5	4	4	4	2	6	4	4	3	5	37	3	2																			
113781 Richard T. Hull	R1b	2	5	8	5	7	5	4	3	3	3	2	5	3	3	2	4	3	37	2																			
102641 Bruce William Hull	R1b1	1	3	3	3	2	3	1	1	1	1	1	1	1	1	1	1	1	1	1																			
		Related	Probably Related		Possibly Related																																		
		<a href="#">FTDNA's Interpreting Genetic Distance for 12 Markers</a>																																					
		<a href="#">FTDNA's Interpreting Genetic Distance for 25 Markers</a>																																					
		<a href="#">FTDNA's Interpreting Genetic Distance for 37 Markers</a>																																					
		<ul style="list-style-type: none"> <li>• Infinite allele mutation model is used</li> <li>• Values on the diagonal indicate number of markers tested</li> </ul>																																					

**Mutations: Genetic Distances**

While DNA is slow changing, it does change, occasionally there are small changes or "copy errors" that can occur with each descendant. These copy errors are called "mutations" and are generally