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Paternal Haplogroup E-M35

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7th December 2022

E-M35

INTRODUCTION

Scientific research has revealed that all humans alive today trace back to ‘Y-chromosomal Adam’ who is estimated to have lived roughly 236,000 years ago in Africa. The Y chromosome accumulates mutations which are passed through the generations, and those mutations can be used to track human migration over tens of thousands of years. One such mutation is ‘E-M35’ which is believed to have first appeared in East Africa about 22,400 years ago. Today, upon commercial ancestral Y-DNA testing one’s paternal haplogroup is revealed, and at present there are over 700 males who have tested positive for the E-M35 in FamilyTreeDNA’s commercial Y-DNA’s STR database, see **Figure 1**. Although the database is overwhelmingly representative of US citizens, the surnames of the males that carry the E-M35 marker are not random, they are dominated by individuals with Scottish associated surnames, many of whom have recorded links with Ireland or Scotland, see **Figure 2**.

Row	Kit	Name	Paternal Ancestor Name	Country	Haplogroup	DYS391	DYS392	DYS19	DYS393	DYS11	DYS426	DYS390	DYS434	DYS385	DYS389	DYS448	DYS454	DYS455	DYS456	DYS457	DYS458	DYS459	DYS460	Y-GATA	YCAII				
1																													
2																													
3																													
4	22	495038	Johnstone	Job Johnstone b 1768 d 1850	Scotland	E-M35	12	23	13	10	17-18	11	12	12	13	11	30	15	9-9	11	11	26	14	20	33	14-16-16-16	9	11	19-21
5	23	492063	Kirkpatrick	Samuel Kirkpatrick b. 1813 d. 1868	Ireland	E-M35	12	24	13	10	17-17	11	12	12	14	11	31	15	9-9	11	11	26	14	20	33	14-16-16-16	9	11	19-21
6	24	417097	Conkey	Arthur Conkey died Comber 1866 Greenfield Vault	Ireland	E-M35	12	24	13	10	17-18	11	12	12	13	11	30	15	9-9	11	11	27	14	20	32	14-16-16-16	9	11	19-21
7	25	810777	Kirkpatrick	Mr. Robert Kirkpatrick, b. 1748	Scotland	E-M35	12	24	13	10	17-18	11	12	12	14	11	31	15	9-9	11	11	26	14	20	32	14-16-16-16	9	13	19-21
8	26	793727	Thornton			E-M35	12	24	13	11	15-18	11	12	13	13	11	30	15	9-9	11	11	26	14	20	33	15-16-16-16	9	11	19-21
9	27	272392	Fullarton	Robert Fullarton b. 1695 and d. 1756	Scotland	E-M35	13	23	13	10	16-16	11	12	12	13	11	31	17	9-9	12	11	25	14	20	34	14-15-15-17	11	11	19-22
10	28	98612	Boyd		Unknown Origin	E-M35	13	23	13	10	17-18	11	12	12	13	11	30	17	9-9	12	11	26	14	20	33	15-16-16-17	9	11	19-21
11	29	307005	Crombie		Scotland	E-M35	13	23	13	11	15-18	11	12	12	13	11	30	15	9-9	11	11	26	14	20	32	14-16-17-18	10	11	19-21
12	30	1099754	Abercrombie	James Abercrombie, b. 1708 Scotland	Scotland	E-M35	13	23	13	11	15-18	11	12	12	13	11	30	15	9-9	11	11	26	14	20	32	14-16-17-18	10	11	19-21
13	31	120215	Crombie	Robert Crombie	Scotland	E-M35	13	23	13	11	15-18	11	12	12	13	11	30	15	9-9	11	11	26	14	20	32	14-16-17-18	10	11	19-21
14	32	N35312	Watson	Nimrod Watson b. 1824 Albemarle Co. VA	Scotland	E-M35	13	23	13	9	13-13	11	12	10	14	11	30												
15	33	177988	Kemp	Thomas Camp / Kemp b. 1665 Essex, EN died 1711 VA	England	E-M35	13	23	13	9	13-14	11	12	11	14	11	30	18	9-9	11	12	23	14	20	30	14-16-16-18	11	11	19-22
16	34	RP51958	Stewart	William Stewart, b. 1815 and d. 1895	Sahraim	E-M35	13	24	11	10	17-18	11	12	11	13	12	29												
17	35	MC9770	Stewart	John Smith, b. 1712 Ayrshire SCOT, d. 1786 York PA	Ireland	E-M35	13	24	13	10	15-17	11	12	12	13	11	30	15	9-10	11	11	26	14	20	31	14-16-17-17	9	11	19-21
18	36	230512	Till		Scotland	E-M35	13	24	13	10	15-18	11	12	12	13	11	31	15	9-9	11	11	26	14	20	31	16-17-17-17	9	11	19-21
19	37	2973	Purves	John Purves 1787	Scotland	E-M35	13	24	13	10	15-19	11	12	12	13	11	30	15	9-9	11	11	25	14	20	34	14-16-17-17	9	11	19-21

Figure 1: Snapshot of the Y-DNA STR results of males who test positive for the E-M35 paternal marker at FTDNA.

E-M35

EM35 Associated-Surnames			
Surname	Frequency	Countries	
Ramsay	12	Scotland	Ireland
Kirkpatrick	10	Scotland	Ireland
Calhoon/Cohoon/colquhoun	8	Scotland	Ireland
Prater/Prather	7	United Kingdom	
Campbell	6	Scotland	
Smith	6	Scotland	Ireland
Alexander	4	Scotland	
Hoy ¹	5	Ireland	
Joseph ¹	5	Scotland	
Watson	5	Scotland	
Bayer	4	Germany	
Dunbar	4	Scotland	
Johnson/Johnstone	4	Scotland	
Kilpatrick	4	Scotland	Ireland
Wilson	4	Scotland	
Wood	4	Scotland	
Woodall/Wooddall	4	Scotland	
Bennet	3	Denmark	
Berat/Berrut/Berruto	3	Italy	
Coon	3	Germany	
Fullarton	3	Scotland	
Howard	3	England	
Nichols	3	United Kingdom	
Phillips	3	Scotland	
Plante	3	France	
Roach/Roche	3	Ireland	
Anderson	2	Scotland	
Boyd	2		
Cheek	2		
Crombie	2	Scotland	
DeLong	2	France	
d'Entremont	2	France	
Gibson/Gybson	2	Scotland	
Halliday	2	Scotland	
Hamilton	2	Scotland	
Harwood	2	England	
Henderson ¹	2	Scotland	
Hunter	2	Ireland	
James	2		
Line	2	Scotland	
Long	2	Germany	
Luria	2	Belarus	Poland
MacIntosh	2	Scotland	Ireland
McCloy	2		
Munro	2	Scotland	
Pinto	2	Morocco	
Reede/Reid	2		
Rose	2		
Rothrock	2	Germany	
Sheppard	2	Ireland	
Skillen	2	Ireland	
Stark	2	Scotland	
Stephen/Stevens	2	England	
Stewart	2	Scotland	Ireland
Taylor	2	Scotland	
Thornton	2		
Valentino	2	Italy	
Vincolo	2	Italy	
White	2	Germany	Switzerland

Figure 2: Recurring Surnames and Ancestral Locations of E-M35 positive males in FTDNA's Y-DNA STR database. The surnames of males that test positive for the E-M35 marker in the FTDNA Y-DNA STR database are not random, they are dominated by Scottish-associated surnames together with individuals with earliest recorded links with Scotland and Ireland. Highlighted font indicates the ethnicity associated with each surname: **Scottish/Scotland**, **Irish/Ireland**, **Scottish/Irish-associated**, **English/England**, **Mainland European**, **African**. ¹False positives, multiple males from the same close family recruited for Y-DNA testing.

A Scots Irish Paternal Marker

FTDNA is a US company, and their commercial ancestral Y-DNA database is representative of the modern American male population. The complete dominance of Scottish-associated surnames among the E-M35 DNA results together with recorded paternal ancestral links with Scotland and Ireland indicates that it is a marker for US males with Scots Irish heritage. The Scots Irish association of E-M35 is confirmed by an examination of the distribution of males named Ramsay, Calhoun, Kirkpatrick, and Kilpatrick within Ireland, which reveals that they are associated with the Protestant farming community of Ulster in the North of Ireland, see **Figure 3**. The Protestant Lowland Scots who settled among the native Gaelic Catholic Irish of Ulster were attracted by the availability of land forfeited by Irish Chieftains after 1600AD. The Plantation of Ulster was a highly organised affair and what research at Irish and Scottish Origenes has revealed is that whole communities departed and settled together within Ireland, and that the Plantation surnames in each part of Ireland mirror those of their Scottish origin. It is no surprise therefore, that distribution mapping of the Ramsay, Kirkpatrick, Calhoun (Colquhoun), Kilpatrick, and Dunbar surnames which dominated among the most frequent Scottish-associated surnames reveals that they are associated with Southwest Scotland, and in particular with Central Ayrshire, where the Ramsays, Dunbars, and Kilpatricks cluster together, see **Figure 4**. Strikingly, an examination of the surnames that surround the Ramsays of Central Ayrshire reveals almost all of the E-M35 Scottish-associated surnames, see **Figure 5**. These results indicate that much of the US male population that carries the E-M35 marker are descended from Scots from Central Ayrshire, some of whom have ancestors that have passed through Ireland as Scots Irish/Ulster Scots.

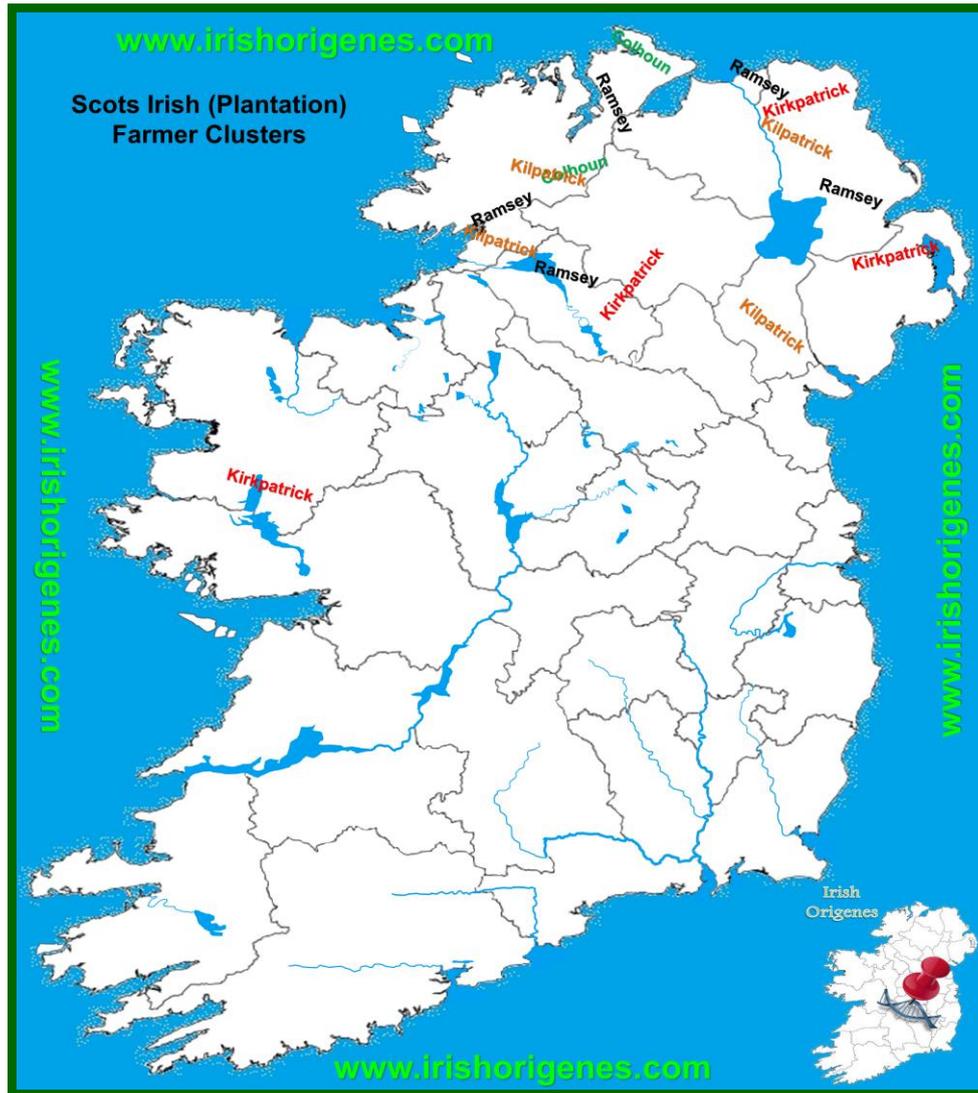


Figure 3: The test subject's most frequent E-M35 Irish-associated surnames are found within Ulster in the North of Ireland. The Ramsay, Kirkpatrick, Calhoun, and Kilpatrick surnames are associated with the E-M35 marker and Ireland (Figure 1) and distribution mapping reveals that they are associated with the Protestant Scots Irish community of Ulster in the North of Ireland. Each surname is positioned in the location where farmers (Protestant, male, heads of household) concentrated in early census data. The most common spelling is detailed in each location. Surnames are positioned as they appear on the Irish Origenes Surnames of Ireland Map, free to view www.origenesmaps.com

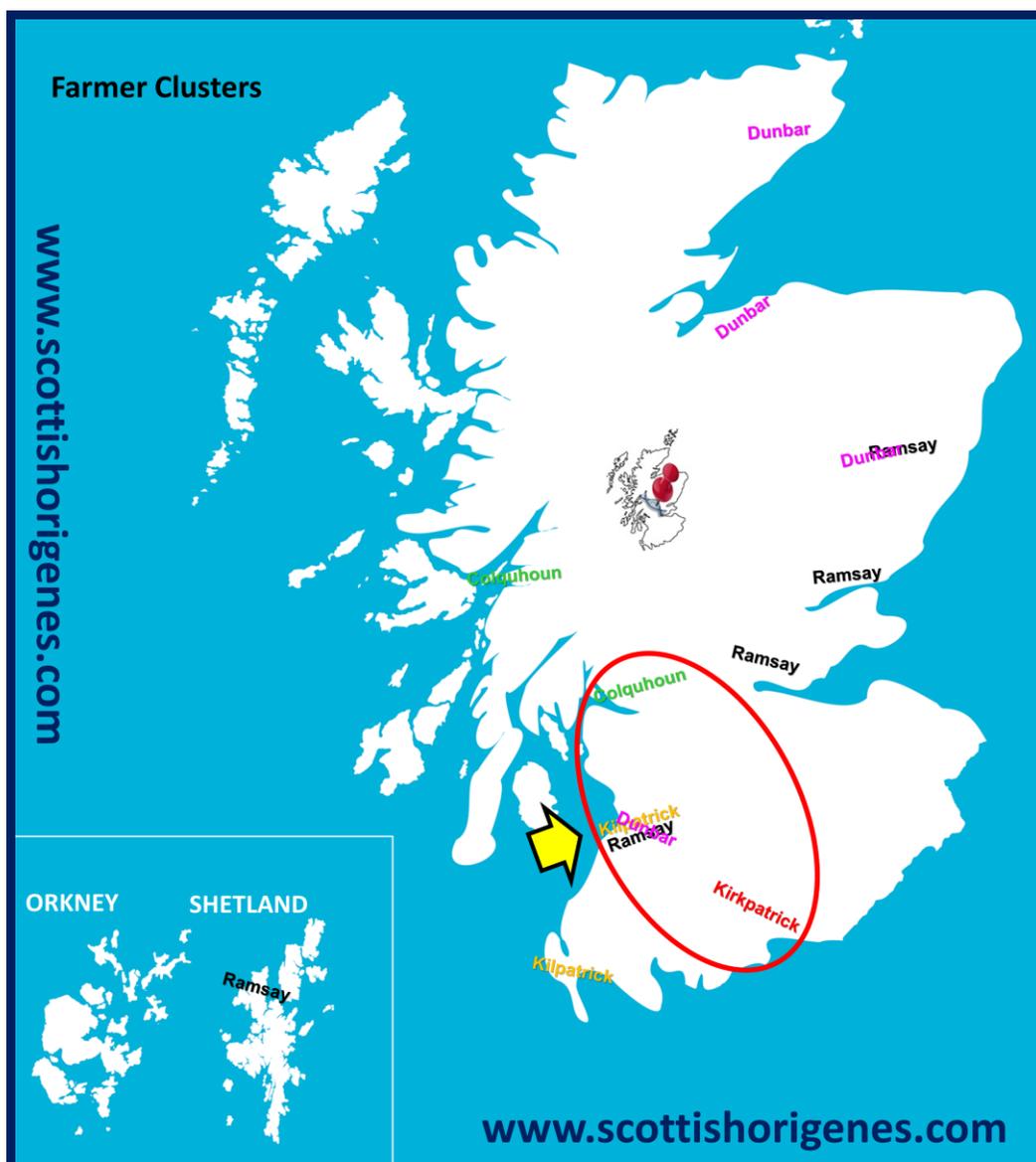


Figure 4: Overlay mapping reveals an E-M35 association with Southwest Scotland. The Ramsay, Kirkpatrick, Colquhoun (Calhoun), Kilpatrick, and Dunbar surnames dominate among Scottish-associated E-M35 males and distribution mapping reveals that they are associated with Southwest Scotland (**red circle**) with a notable clustering in Central Ayrshire (**yellow arrow**). Each surname is positioned in the location where farmers with each surname concentrated in early census data. The most common spelling is detailed in each location. Surnames are positioned as they appear on the Scottish Origenes Surnames map, free to view online <https://www.origenesmaps.com>

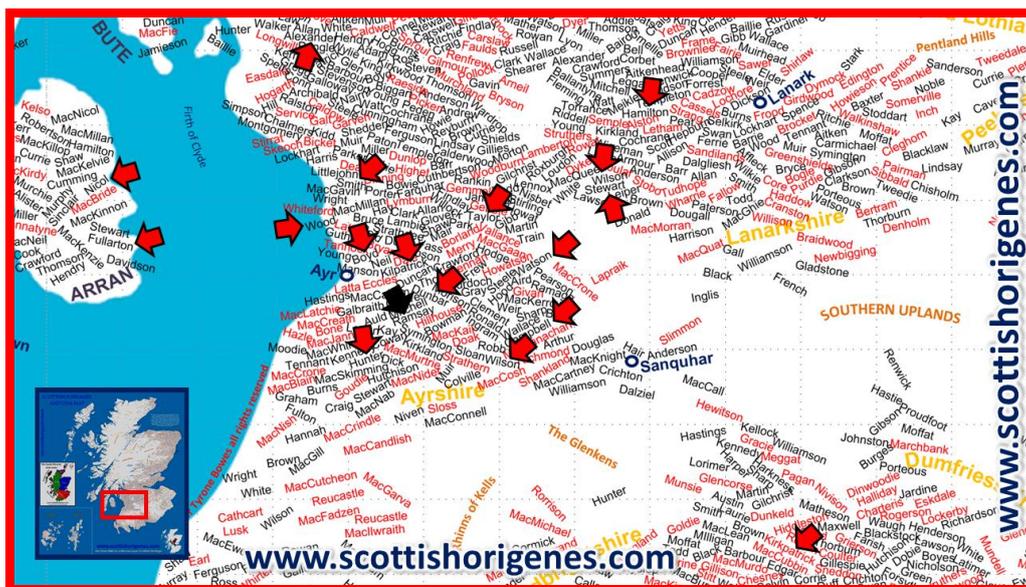


Figure 5: The Surnames of Central Ayrshire and its borderlands. Scottish farmers still concentrated in early census data in the area where their surname first appeared or in the area where one's ancestors first settled. An examination of the surnames associated with Central Ayrshire reveals Ramsay (**black arrow**) which dominates the E-M35 Y-DNA database and surrounded by many other surnames that are associated with E-M35 (**red arrows**). Each surname is positioned in the location where farmers with each surname concentrate in early census data. The most common spelling is detailed in each location. Surnames in **red font** are exclusive to a single Scottish location. Each surname is positioned as it appears on the Scottish Origenes Surnames of Scotland map, free to view: <https://www.origenesmaps.com/>

Celts, Refugee Gauls or Roman Colonisers?

Approximately 700 males tested positive for the E-M35 marker in FTDNA's commercial Y-DNA database, 461 of whom record ancestral countries of origin, see **Figure 6**. Those countries are not random, 148 record links with Scotland and Ireland which is reflective of its Scots Irish association. In addition, 23 record countries within Africa, the birthplace of 'E-M35 Adam.' The remaining males record links with the Middle East and Europe, reflective of the spread of E-M35 out of Africa, into the Middle East and then later into Europe. Within Central Europe, the countries of Germany and Italy dominate, see **Figure 6**. The Celts emerged from Central Europe in around 800BC and spread throughout much of Europe including Northern Italy, and also into Britain and Ireland. This raises the possibility that the E-M35 marker was carried into Scotland by Mainland European Celts. However, given the prominence of Italy, its also possible that E-M35 was spread through Europe as a result of Roman Conquest and colonisation. It is also possible that the devastating Roman Conquest of Gaul under Julius Caesar in the 1st Century BC propelled E-M35⁺ Gaulish refugees into Mainland Britain, and that the arrival of the Romans in Mainland Britain in the 1st Century AD propelled the E-M35 refugee Gauls into Southwest Scotland, and beyond the reach of Roman.

E-M35

EM35 Origins	
Country	Frquency
Scotland	117
England	46
Germany	39
Ireland (Scots Irish)	31
Italy	30
Russian Federation	19
Saudi Arabia	17
France	13
Ukraine	13
Bulgaria	12
Hungary	11
Spain	9
Poland	8
Switzerland	7
Turkey	7
Greece	6
Iraq	6
Morocco	6
Denmark	5
Palestinian Territory	5
Romania	5
Somalia	5
Wales	5
Belarus	4
Netherlands	4
Sudan	4
Lithuania	3
Portugal	3
Serbia	3
Algeria	2
Austria	2
Chad	2
Croatia	2
Egypt	2
Georgia	2
Kuwait	2
Libya	2
Qatar	2

Figure 6: E-M35 Countries of origin. Approximately 700 males tested positive for the E-M35 marker in FTDNA's commercial Y-DNA database, 461 of whom record ancestral countries of origin. Highlighted font indicates region of origin, Scotland, Ireland, England, Europe, Africa, Middle East.

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