

## Dataset 2. Long dataset

Long dataset number	Sample name	Haplotype	Age	Geographic location
1	C.Motas33_2	1	-----	Spain
	Machorras		-----	
	Galicia		-----	
	GEE		5,380 ± 45 B.P.	
	Hortigüela		6,325 ± 50 B.P.	
	Vallecampo		7,500 ± 55 B.P.	
2	Asturias	2	-----	Spain
3	Palencia	3	-----	Spain
4	HEM	4	350 ± 40 B.P.	Spain
5	C.motas33_1	5	4,624 ± 45 B.P.	Spain
6	Atapuerca	6	17,440 ± 425 B.P.	Spain
	VALD2		90,000 B.P.	
7	Asieko	7	Mid-Lower Paleolithic	Spain
8	Vb88T6	8	90,000	Spain
9	VbL13	9	90,000	Spain
10	A12	10	XII-XIV Century	Germany
	REMANIE		3,445 ± 40 B.P.	France
	A9		5,210 ± 35 B.P.	Germany
	Slovenia		Modern	Italy/Balkans
11	MV4-K3	11	1,570 ± 35 B.P.	France
	MV4-162		17,909 ± 55 B.P.	
	Pyrenees		Modern	
12	A3	12	1,665 ± 35 B.P.	Germany
	Bulgaria		Modern	Italy/Balkans
13	A5	13	1,770 ± 35 B.P.	Germany
	Russia1		Modern	Russia
	Russia		Modern	Russia

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	Russia2		Modern	Russia
14	MV4-204-48	14	1,750 ± 30 B.P.	France
15	MV4-1184	15	3,845 ± 40 B.P.	France
16	MV4-714	16	4,645 ± 40 B.P.	France
17	MV4-851	17	6,525 ± 50 B.P.	France
18	Scotland	18	Holocene	Scotland
19	gbcm2	19	16,440 ± 65 B.P.	Italy/Balkans
20	Winden	20	39,940 B.P.	Austria
21	Ramesch	21	47,420 B.P.	Austria
22	Oso1	22	Modern	Spain
	oso2			
	oso3			
	Oso4			
	Oso5			
	Oso6			
	Oso7			
	Oso8			
	Oso9			
	Oso10			
	Oso11			
	Oso12			
	Oso13			
	Oso15			
	Oso17			
	Oso18			
	Oso20			
	Oso22			
	Oso23			
	Oso25			
	Cantab1			
	Cantab2			

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	PEU2			
23	Oso14	23	Modern	Spain
24	Oso21	24	Modern	Spain
25	Oso24	25	Modern	Spain
26	Abruzzo	26	Modern	Italy/Balkans
27	Croatia	27	Modern	Italy/Balkans
28	Dalarna	28	Modern	Scandinavia
29	Greece	29	Modern	Italy/Balkans
30	Norway	30	Modern	Scandinavia