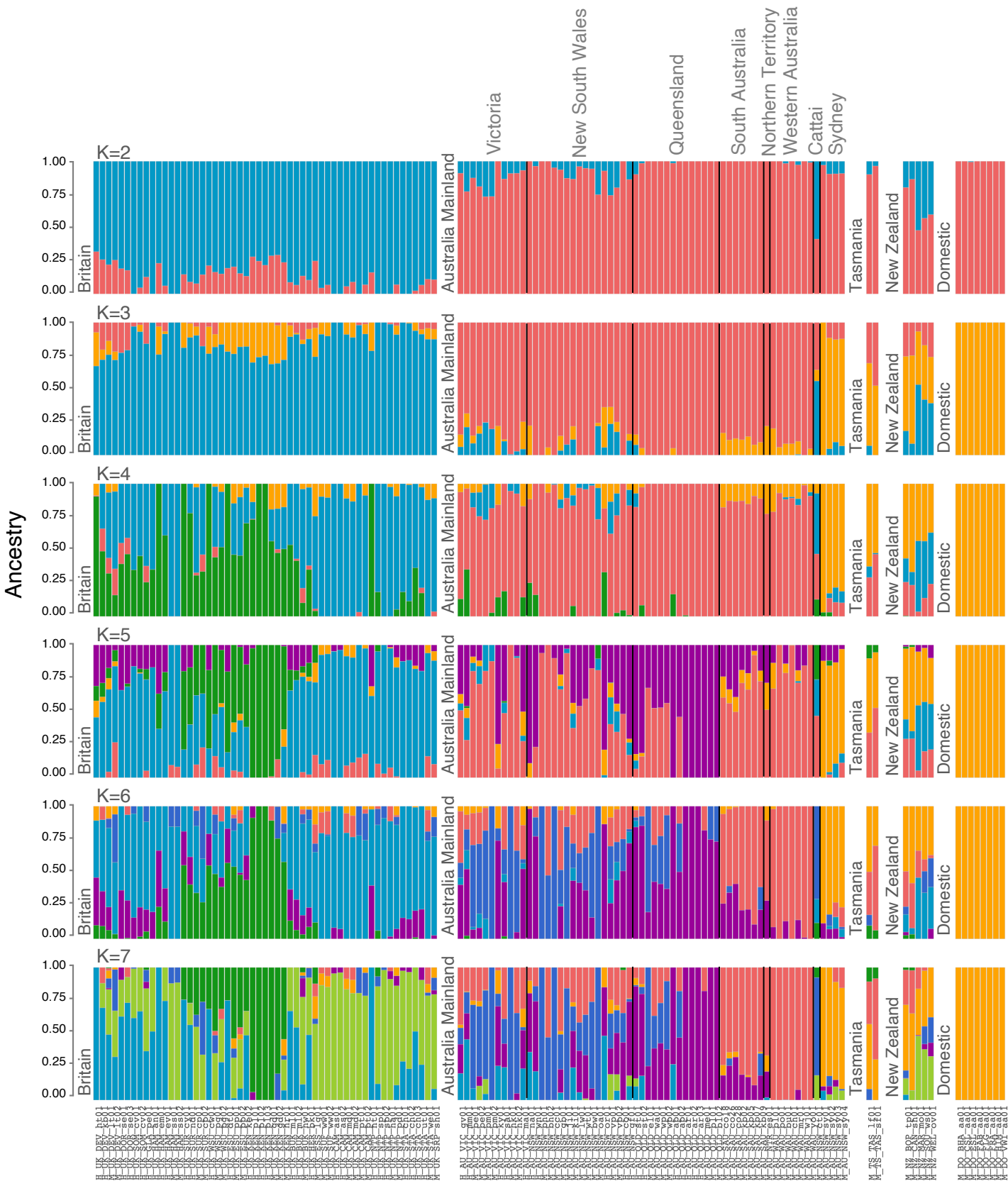
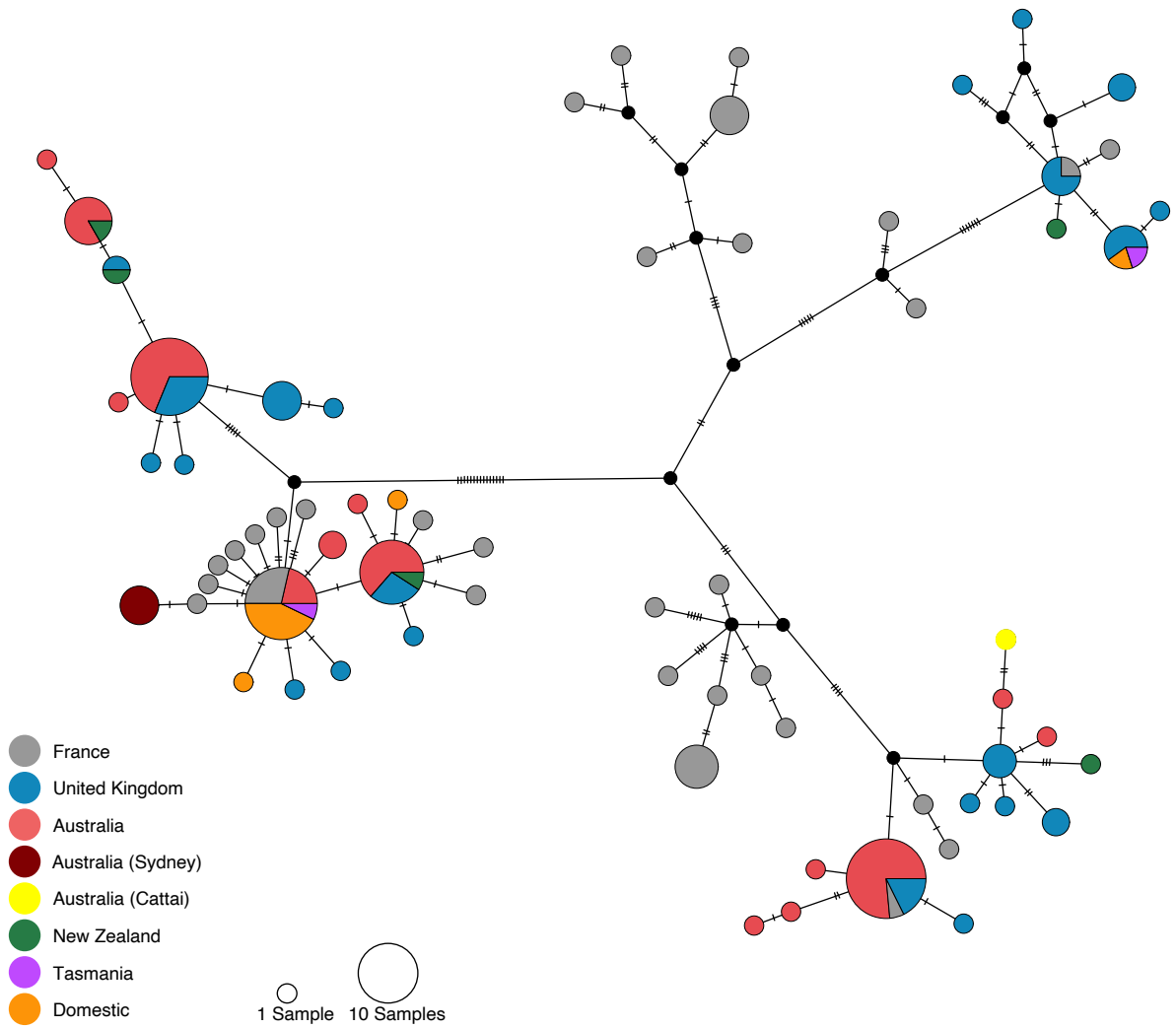


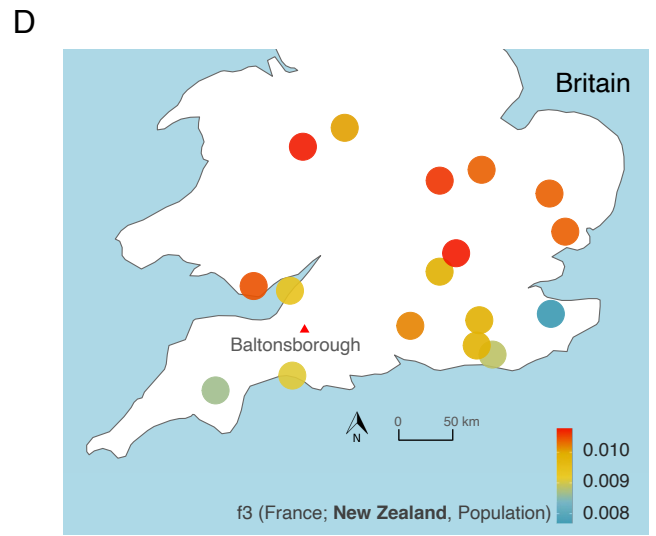
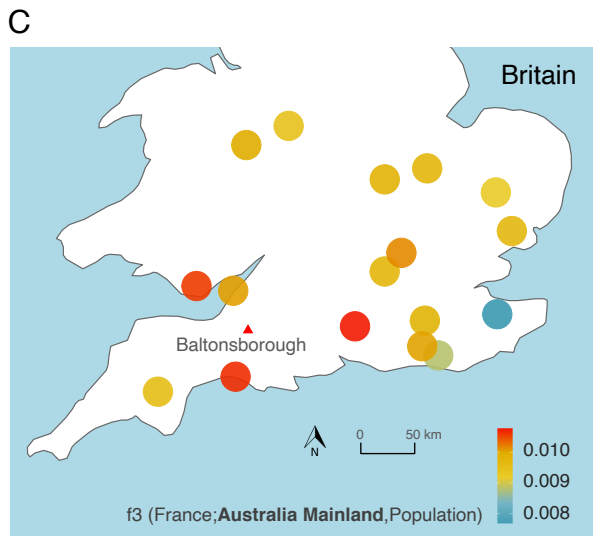
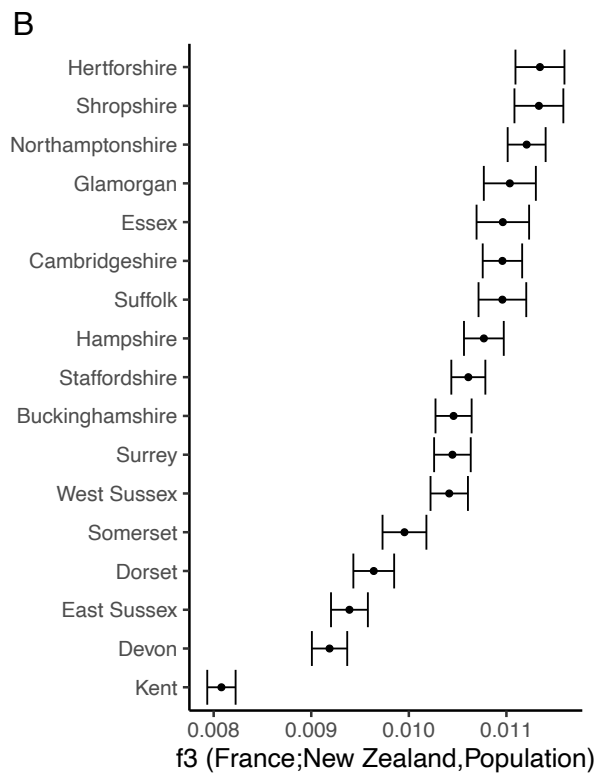
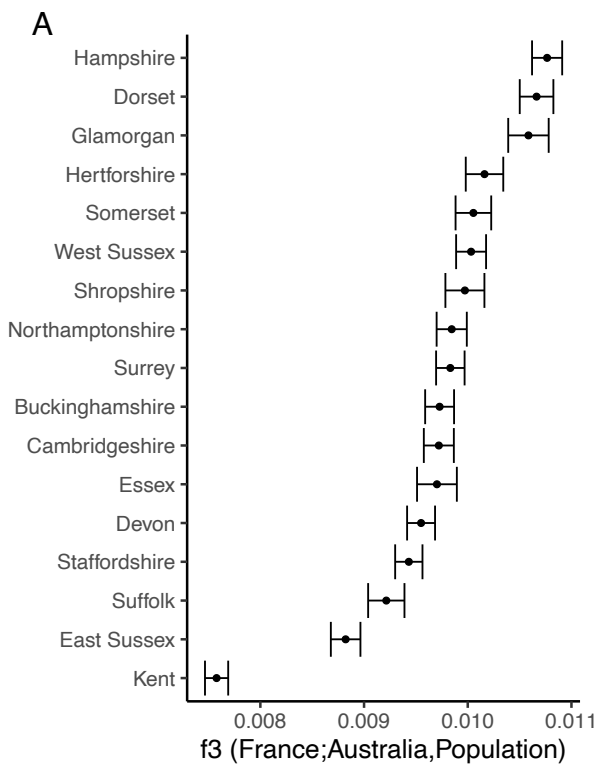
**Figure S1** - Mid-point rooted maximum likelihood tree of all individual rabbits used in this dataset, coloured according to the population of origin.



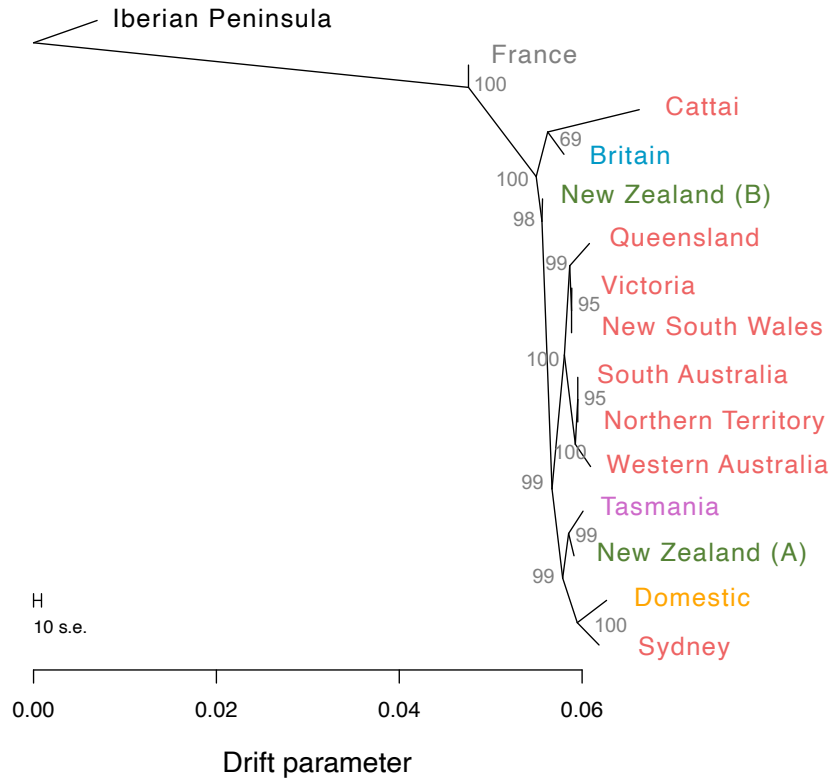
**Figure S2** - Ancestry fractions estimated with Admixture assuming  $K$  ancestral populations ( $K=2$  to  $K=7$ ), separated between British, Australia, Tasmania, New Zealand and Domestic population. Black bars separate Australian mainland sub-populations.



**Figure S3** - Median-joining haplotype network of mtDNA genomes. Colours correspond to the population of origin. Mainland Australian individuals that were inferred to result from an introduction independent from Barwon Park (Sydney and Cattai) are coloured differently. The size of the circles is proportional to the number of individuals that share the same haplotype.



**Figure S4** –  $f_3$ -statistic analysis reflecting the shared genetic drift between mainland Australia (excluding Cattai and Sydney) (A)/New Zealand (B), and 17 British rabbit populations using France as an outgroup. Map of the South of Britain with 17 populations coloured according to the  $f_3$  statistics value, reflecting the degree of shared ancestry with Australia (C)/New Zealand (D). Populations were defined based on the British county of each rabbit. The red triangle marks the location of Baltonsborough village, the residence of the Austin family where the wild rabbits imported to Barwon Park are believed to be originated from.



**Figure S5** - Historical relationships among populations reconstructed with allele frequency data using the TreeMix program. The branch lengths are proportional to the amount of genetic drift, and the scale bar shows ten times the mean standard error of the entries in the sample covariance matrix. The numbers on branches are percent bootstrap support calculated by resampling blocks of SNPs 1000 times. New Zealand (A) and New Zealand (B) populations correspond to the two clusters of individuals observed in the PCA.

**Table S1** - List of all samples used in this study.

<b>Sample<sup>a</sup></b>	<b>Published data<sup>b</sup></b>	<b>Year<sup>c</sup></b>	<b>Origin<sup>d</sup></b>	<b>State/County/Dept.<sup>e</sup></b>	<b>Locality/Breed<sup>g</sup></b>	<b>Lat<sup>h</sup></b>	<b>Long<sup>i</sup></b>	<b>Representative of Population<sup>j</sup></b>
M_AU_NSW_bh01	Alves et al 2019	2012	Australia	New South Wales	Broken Hill	-31.956	141.465	-
M_AU_NSW_bh02	Alves et al 2019	2012	Australia	New South Wales	Broken Hill	-31.956	141.465	-
M_AU_NSW_bw01	Alves et al 2019	2013	Australia	New South Wales	Blowering	-35.506	148.273	-
M_AU_NSW_cc01	Alves et al 2019	2013	Australia	New South Wales	Coolac	-34.927	148.166	-
M_AU_NSW_ct01	Alves et al 2019	2007	Australia	New South Wales	Cattai National park	-33.320	150.907	-
M_AU_NSW_gb01	Alves et al 2019	2013	Australia	New South Wales	Goombargana	-35.702	146.583	VIC/NSW
M_AU_NSW_ji01	Alves et al 2019	2013	Australia	New South Wales	Jindera	-35.950	146.881	VIC/NSW
M_AU_NSW_ki01	Alves et al 2019	2013	Australia	New South Wales	King's	-35.676	146.898	VIC/NSW
M_AU_NSW_lw01	Alves et al 2019	2010	Australia	New South Wales	Little Whiskters Road (Carwoola)	-35.292	149.300	-
M_AU_NSW_oa01	Alves et al 2019	2007	Australia	New South Wales	Oakey Creek (near Bathurst)	-33.255	150.300	-
M_AU_NSW_sy01	New data	2018	Australia	New South Wales	Avalon	-33.607	151.325	-
M_AU_NSW_sy02	New data	2018	Australia	New South Wales	Avalon	-33.607	151.325	-
M_AU_NSW_sy03	New data	2018	Australia	New South Wales	Avalon	-33.607	151.325	-
M_AU_NSW_sy04	New data	2018	Australia	New South Wales	East Lake Golf Course	-33.926	151.221	-
M_AU_NSW_vp01	Alves et al 2019	2007	Australia	New South Wales	Valpine (Near Bathurst)	-33.187	149.641	-
M_AU_NSW_vp02	Alves et al 2019	2007	Australia	New South Wales	Valpine (Near Bathurst)	-33.187	149.641	-
M_AU_NSW_wt01	Alves et al 2019	2007	Australia	New South Wales	Wattagan (near Canberra)	-35.152	149.072	-
M_AU_NTR_es01	New data	2011	Australia	Northern Australia	Erdunda Station	-25.120	133.114	-
M_AU_QLD_bl01	Alves et al 2019	2013	Australia	Queensland	Blue Mountain Heights	-27.502	151.952	QLD
M_AU_QLD_bl02	Alves et al 2019	2013	Australia	Queensland	Blue Mountain Heights	-27.502	151.952	QLD
M_AU_QLD_el01	Alves et al 2019	2013	Australia	Queensland	Elbow valley	-28.438	152.205	QLD
M_AU_QLD_me01	Alves et al 2019	2013	Australia	Queensland	Merrits	-27.362	152.028	QLD
M_AU_QLD_wa01	Alves et al 2019	2013	Australia	Queensland	Warwick	-28.368	151.966	QLD
M_AU_QLD_wp01	Alves et al 2019	2013	Australia	Queensland	Washpool	-28.240	151.917	QLD

M_AU_QLD_wp02	Alves et al 2019	2013	Australia	Queensland	Washpool	-28.240	151.917	QLD
M_AU_SAU_co18	New data	2018	Australia	South Australia	Coonanna	-29.796	140.947	SAU
M_AU_SAU_co26	New data	2018	Australia	South Australia	Coonanna	-29.796	140.947	SAU
M_AU_SAU_co28	New data	2018	Australia	South Australia	Coonanna	-29.796	140.947	SAU
M_AU_SAU_kb02	New data	2018	Australia	South Australia	Kain Bore	-29.349	140.589	SAU
M_AU_SAU_kb05	New data	2018	Australia	South Australia	Kain Bore	-29.349	140.589	SAU
M_AU_SAU_kb07	New data	2018	Australia	South Australia	Kain Bore	-29.349	140.589	SAU
M_AU_SAU_kb09	New data	2018	Australia	South Australia	Kain Bore	-29.349	140.589	SAU
M_AU_VIC_be01	Alves et al 2019	2009	Australia	Victoria	Bendigo	-36.758	144.284	VIC/NSW
M_AU_VIC_be02	Alves et al 2019	2009	Australia	Victoria	Bendigo	-36.758	144.284	VIC/NSW
M_AU_VIC_bm01	Alves et al 2019	2009	Australia	Victoria	Bacchus Marsh	-37.676	144.439	VIC/NSW
M_AU_VIC_bm02	Alves et al 2019	2009	Australia	Victoria	Bacchus Marsh	-37.676	144.439	VIC/NSW
M_AU_VIC_hk01	Alves et al 2019	2009	Australia	Victoria	Hattah Kulkyne National Park	-34.608	142.303	-
M_AU_VIC_hk02	Alves et al 2019	2009	Australia	Victoria	Hattah Kulkyne National Park	-34.608	142.303	-
M_AU_WAU_bi01	New data	2017	Australia	Western Australia	Bibra Lake	-32.091	115.831	WAU
M_AU_WAU_bo01	New data	2017	Australia	Western Australia	Bouvard	-32.690	115.642	WAU
M_AU_WAU_bu01	New data	2016	Australia	Western Australia	Bullsbrook	-31.692	116.071	WAU
M_AU_WAU_ch01	New data	2016	Australia	Western Australia	Chittering	-31.570	116.069	WAU
M_AU_WAU_mr01	New data	2016	Australia	Western Australia	Margaret River	-33.975	115.101	WAU
M_AU_WAU_wj01	New data	2016	Australia	Western Australia	Winnejup	-34.017	116.334	WAU
M_AU_WAU_yo01	New data	2016	Australia	Western Australia	Yornup	-34.021	116.123	WAU
H_AU_NSW_co01	Alves et al 2019	1902	Australia	New South Wales	Coonamble	-30.950	148.400	-
H_AU_NSW_gf01	Alves et al 2019	1924	Australia	New South Wales	Guy Fawkes District	-30.500	152.500	-
H_AU_NSW_na01	Alves et al 2019	1900	Australia	New South Wales	Narrandera	-34.750	146.550	-
H_AU_NSW_or01	Alves et al 2019	1956	Australia	New South Wales	Orange	-33.283	149.100	-
H_AU_NSW_wn01	Alves et al 2019	1919	Australia	New South Wales	Wandandian	-35.092	150.508	-
H_AU_QLD_ap01	Alves et al 2019	1947	Australia	Queensland	Acacia Plateau	-28.417	152.300	-

H_AU_QLD_ap02	Alves et al 2019	1947	Australia	Queensland	Acacia Plateau	-28.417	152.300	-
H_AU_QLD_ar01	Alves et al 2019	1947	Australia	Queensland	Acacia Ridge	-27.583	153.017	-
H_AU_QLD_ar02	Alves et al 2019	1947	Australia	Queensland	Acacia Ridge	-27.583	153.017	-
H_AU_QLD_ar03	Alves et al 2019	1947	Australia	Queensland	Acacia Ridge	-27.583	153.017	-
H_AU_QLD_st01	Alves et al 2019	1941	Australia	Queensland	Stanthorpe area	-28.650	151.933	-
H_AU_QLD_st02	Alves et al 2019	1941	Australia	Queensland	Stanthorpe area	-28.650	151.933	-
H_AU_VIC_gv01	Alves et al 2019	1903	Australia	Victoria	Goulburn Valley	-36.895	145.314	-
H_AU_VIC_ky01	Alves et al 2019	1911	Australia	Victoria	Kyneton	-37.248	144.454	-
H_AU_VIC_ma01	Alves et al 2019	1910	Australia	Victoria	Macorna	-35.917	144.033	-
H_AU_VIC_mm01	Alves et al 2019	1914	Australia	Victoria	Mitta Mitta	-36.533	147.383	-
H_AU_VIC_sa01	Alves et al 2019	1909	Australia	Victoria	St Arnaud	-36.617	143.250	-
M_DO_BHA_aa01	New data	-	Domestic	-	Belgian Hare	-	-	-
M_DO_CSL_aa01	New data	-	Domestic	-	Champagne Silver	-	-	-
M_DO_ESL_aa01	New data	-	Domestic	-	English Silver	-	-	-
M_DO_FAB_aa01	New data	-	Domestic	-	Fauve de Bourgogne	-	-	-
M_DO_FLG_aa01	New data	-	Domestic	-	Flemish Giant	-	-	-
M_DO_FRA_aa01	New data	-	Domestic	-	French Angora	-	-	-
M_DO_HIM_aa01	New data	-	Domestic	-	Himalayan	-	-	-
M_DO_VWI_aa01	New data	-	Domestic	-	Vienna White	-	-	-
M_FR_AIN_by01	Alves et al 2019	2005	France	Ain	Beynost	45.840	5.002	-
M_FR_AIN_sm01	Alves et al 2019	2005	France	Ain	St Marcel	45.948	4.991	-
M_FR_AIN_vd01	Alves et al 2019	2005	France	Ain	Villars les Dombes	46.002	5.037	-
M_FR_AIN_vi01	Alves et al 2019	2005	France	Ain	Villieu	45.920	5.222	-
M_FR_ALP_au01	Alves et al 2019	2005	France	Alpes-de-Haute-Provence	Aubignosc	44.129	5.970	-
M_FR_ALP_th01	Alves et al 2019	2005	France	Alpes-de-Haute-Provence	Thèze	44.319	5.922	-
M_FR_BOU_ln01	Alves et al 2019	2005	France	Bouches-du-Rhône	Lançon de Provence	43.592	5.127	-
M_FR_GAR_ai01	Alves et al 2019	2005	France	Gard	Aigremont	43.966	4.123	-



M_FR_GAR_bg01	Alves et al 2019	2005	France	Gard	Bagard	44.073	4.052	-
M_FR_GAR_le01	Alves et al 2019	2005	France	Gard	Le Cailar	43.676	4.236	-
M_FR_GAR_mc01	Alves et al 2019	2005	France	Gard	Mejannes le Clap	44.225	4.349	-
M_FR_GAR_mg01	Alves et al 2019	2005	France	Gard	Marguerittes	43.863	4.433	-
M_FR_GAR_qu01	Alves et al 2019	2005	France	Gard	Quissac	43.911	3.999	-
M_FR_GAR_sb01	Alves et al 2019	2005	France	Gard	St Ambroix	44.260	4.196	-
M_FR_GAR_sg01	Alves et al 2019	2005	France	Gard	St Gilles	43.676	4.448	-
M_FR_GAR_so01	Alves et al 2019	2005	France	Gard	Souvignargues	43.816	4.122	-
M_FR_GAR_va01	Alves et al 2019	2005	France	Gard	Vauvert	43.693	4.278	-
M_FR_GER_lb01	Alves et al 2019	2005	France	Gers	Labastide-Saves	43.520	0.981	-
M_FR_GIR_ce01	Alves et al 2019	2002	France	Gironde	Cérons	44.631	-0.338	-
M_FR_GIR_pr01	Alves et al 2019	2002	France	Gironde	Preignac	44.586	-0.296	-
M_FR_HER_cl01	Alves et al 2019	2005	France	Hérault	Claret	43.862	3.906	-
M_FR_RHO_qb01	Alves et al 2019	2002	France	Rhône	Quincie en Beaujolais	46.119	4.615	-
M_FR_RHO_sl01	Alves et al 2019	2002	France	Rhône	St Genis Laval	45.692	4.793	-
M_FR_RHO_sr01	Alves et al 2019	2002	France	Rhône	St Germain-Nuelles	45.850	4.611	-
M_FR_TEG_mr01	Alves et al 2019	2005	France	Tarn-et-Garonne	Marignac	43.844	0.912	-
M_FR_VAU_cu01	Alves et al 2019	2012	France	Vaucluse	Caumont sur Durance	43.894	4.943	-
H_FR_AIN_bi01	Alves et al 2019	1925	France	Ain	Birieux	45.953	5.039	-
H_FR_AIN_vd01	Alves et al 2019	1928	France	Ain	Villars-les-Dombes	46.002	5.029	-
H_FR_AIN_vd02	Alves et al 2019	1908	France	Ain	Villars-les-Dombes	46.002	5.029	-
H_FR_AIN_vd03	Alves et al 2019	1925	France	Ain	Villars-les-Dombes	46.002	5.029	-
H_FR_AIN_vd04	Alves et al 2019	1925	France	Ain	Villars-les-Dombes	46.002	5.029	-
H_FR_ALP_di01	Alves et al 2019	1908	France	Alpes-de-Haute-Provence	Digne, Basses Alpes	44.092	6.236	-
H_FR_ALP_di02	Alves et al 2019	1908	France	Alpes-de-Haute-Provence	vers Digne, Basses Alpes	44.092	6.236	-
H_FR_ALP_di03	Alves et al 2019	1908	France	Alpes-de-Haute-Provence	vers Digne, Basses Alpes	44.092	6.236	-
H_FR_ALP_di04	Alves et al 2019	1908	France	Alpes-de-Haute-Provence	vers Digne, Basses Alpes	44.092	6.236	-
H_FR_BOU_ca01	Alves et al 2019	1956	France	Bouches-du-Rhône	Camargue	43.590	4.384	-
H_FR_BOU_ca02	Alves et al 2019	1952	France	Bouches-du-Rhône	Camargue, Tour du valat	43.590	4.384	-
H_FR_BOU_ca03	Alves et al 2019	1952	France	Bouches-du-Rhône	Camargue, Tour du valat	43.590	4.384	-
H_FR_BOU_ca04	Alves et al 2019	1953	France	Bouches-du-Rhône	Camargue, Tour du valat	43.590	4.384	-
H_FR_BOU_ca05	Alves et al 2019	1953	France	Bouches-du-Rhône	Camargue, Tour du valat	43.590	4.384	-

H_FR_BOU_ca06	Alves et al 2019	1952	France	Bouches-du-Rhône	Camargue, Tour du valat	43.590	4.384	-
H_FR_GAR_ga01	Alves et al 2019	1907	France	Gard	Gard	43.945	4.151	-
H_FR_GAR_ga02	Alves et al 2019	1932	France	Gard	Gard	43.945	4.151	-
H_FR_GAR_ga03	Alves et al 2019	1907	France	Gard	Gard	43.945	4.151	-
H_FR_GAR_gj01	Alves et al 2019	1908	France	Gard	Gajan	43.897	4.215	-
H_FR_GAR_gj02	Alves et al 2019	1908	France	Gard	Gajan	43.897	4.215	-
H_FR_GAR_po01	Alves et al 2019	1908	France	Gard	Poulx	43.911	4.424	-
H_FR_GAR_po02	Alves et al 2019	1908	France	Gard	Poulx	43.911	4.424	-
H_FR_GAR_po03	Alves et al 2019	1908	France	Gard	Poulx	43.911	4.424	-
H_FR_GAR_sd01	Alves et al 2019	1932	France	Gard	St Génès de Malgoirès	43.946	4.214	-
H_FR_GAR_sg01	Alves et al 2019	1908	France	Gard	St Gilles	43.677	4.434	-
H_FR_LOI_ne01	Alves et al 2019	1943	France	Loir et Cher	Neuvy	47.563	1.603	-
H_FR_LOI_ne02	Alves et al 2019	1943	France	Loir et Cher	Neuvy	47.563	1.603	-
H_FR_RHO_ec01	Alves et al 2019	1900	France	Rhône	Ecully	45.775	4.779	-
H_FR_SAO_sv01	Alves et al 2019	1908	France	Saône-et-Loire	Saint-Verand	45.905	4.508	-
M_NZ_BOP_tp01	New data	2013	New Zealand	Bay of Plenty	Te Puke	-37.830	176.330	-
M_NZ_CAN_sh01	New data	2012	New Zealand	Canterbury	Simons Hill	-44.198	170.299	-
M_NZ_MAR_mo01	New data	2013	New Zealand	Marlborough	Molesworth	-42.159	173.092	-
M_NZ_SOU_ws01	New data	2013	New Zealand	Southland	Wantwood Station Gore	-45.990	168.765	-
M_NZ_WEL_ov01	New data	2012	New Zealand	Wellington	Orongorongo Valley	-41.396	174.918	-
M_TS_TAS_lf01	New data	2012	Tasmania	Tasmania	Longford	-41.560	147.119	-
M_TS_TAS_sf01	New data	2017	Tasmania	Tasmania	Sandford	-42.928	147.524	-
M_UK_BUK_hw01	Alves et al 2019	2012	United Kingdom	Buckinghamshire	High Wycombe	51.635	-0.810	-
M_UK_CAM_md01	Alves et al 2019	2012	United Kingdom	Cambridgeshire	Madingley	52.221	0.046	-
M_UK_CAM_md02	Alves et al 2019	2012	United Kingdom	Cambridgeshire	Madingley	52.228	0.043	-
M_UK_CAM_pt01	Alves et al 2019	2012	United Kingdom	Cambridgeshire	Peterborough	52.542	-0.325	-
M_UK_CAM_pt02	Alves et al 2019	2012	United Kingdom	Cambridgeshire	Peterborough	52.540	-0.323	-
M_UK_DEV_lt01	Alves et al 2019	2012	United Kingdom	Devon	Lettaford	50.641	-3.837	-
M_UK_DEV_lt02	Alves et al 2019	2012	United Kingdom	Devon	Lettaford	50.641	-3.837	-
M_UK_ESS_lg01	Alves et al 2019	2012	United Kingdom	Essex	Langham	51.943	0.935	-
M_UK_ESU_pp01	Alves et al 2019	2012	United Kingdom	East Sussex	Plumpton	50.892	-0.042	-
M_UK_ESU_pp02	Alves et al 2019	2012	United Kingdom	East Sussex	Plumpton	50.892	-0.042	-
M_UK_HAM_ss01	Alves et al 2019	2012	United Kingdom	Hampshire	Sutton Scotney	51.154	-1.338	-

M_UK_HAM_ss02	Alves et al 2019	2012	United Kingdom	Hampshire	Sutton Scotney	51.154	-1.338	-
M_UK_KEN_gd01	Alves et al 2019	2012	United Kingdom	Kent	Goodnestone	51.319	0.930	-
M_UK_KEN_gd02	Alves et al 2019	2012	United Kingdom	Kent	Goodnestone	51.319	0.930	-
M_UK_KEN_hr01	Alves et al 2019	2012	United Kingdom	Kent	Harrietsham	51.247	0.679	-
M_UK_NTP_ha01	Alves et al 2019	2012	United Kingdom	Northamptonshire	Harlestone	52.281	-0.982	-
M_UK_NTP_pd01	Alves et al 2019	2012	United Kingdom	Northamptonshire	Preston Deanery	52.186	-0.845	-
M_UK_SRP_sh01	Alves et al 2019	2012	United Kingdom	Shropshire	Shrewsbury	52.663	-2.678	-
M_UK_STA_we01	Alves et al 2019	2012	United Kingdom	Staffordshire	Weston Park, Tong	52.667	-2.303	-
M_UK_SUF_ww01	Alves et al 2019	2012	United Kingdom	Suffolk	Walsham le Willows	52.303	0.920	-
M_UK_SUF_ww02	Alves et al 2019	2012	United Kingdom	Suffolk	Walsham le Willows	52.303	0.920	-
M_UK_SUR_cp01	Alves et al 2019	2012	United Kingdom	Surrey	Capel	51.151	-0.312	-
M_UK_SUR_cp02	Alves et al 2019	2012	United Kingdom	Surrey	Capel	51.115	-0.324	-
M_UK_WSU_pg01	Alves et al 2019	2012	United Kingdom	West Sussex	Partridge Green	50.963	-0.296	-
M_UK_WSU_pg02	Alves et al 2019	2012	United Kingdom	West Sussex	Partridge Green	50.963	-0.296	-
H_UK_BUK_ml01	Alves et al 2019	1912	United Kingdom	Buckinghamshire	Marlow	51.575	-0.780	-
H_UK_BUK_ml02	Alves et al 2019	1912	United Kingdom	Buckinghamshire	Marlow	51.575	-0.780	-
H_UK_CAM_as01	Alves et al 2019	1954	United Kingdom	Cambridgeshire	Peterborough, Ashton Wold	52.637	-0.374	-
H_UK_CAM_as02	Alves et al 2019	1954	United Kingdom	Cambridgeshire	Peterborough, Ashton Wold	52.637	-0.374	-
H_UK_DEV_ht01	Alves et al 2019	1937	United Kingdom	Devon	Hatherleigh	50.819	-4.072	-
H_UK_DEV_kb01	Alves et al 2019	1876	United Kingdom	Devon	Near Kingsbridge	50.284	-3.777	-
H_UK_DOR_se01	Alves et al 2019	1934	United Kingdom	Dorset	Seatown, Bridport	50.722	-2.824	-
H_UK_DOR_se03	Alves et al 2019	1893	United Kingdom	Dorset	Bridport, Near Seatown	50.722	-2.824	-
H_UK_ESU_dt01	Alves et al 2019	1908	United Kingdom	East Sussex	Ditchling	50.918	-0.116	-
H_UK_GLA_pe01	Alves et al 2019	1914	United Kingdom	Glamorgan	Pendolyan	51.482	-3.356	-
H_UK_HAM_an01	Alves et al 2019	1944	United Kingdom	Hampshire	Andover	51.211	-1.492	-
H_UK_HAM_ev01	Alves et al 2019	1894	United Kingdom	Hampshire	Eversley	51.352	-0.889	-
H_UK_HAM_em01	Alves et al 2019	1928	United Kingdom	Hampshire	Emsworth	50.848	-0.938	-
H_UK_HER_bk01	Alves et al 2019	1903	United Kingdom	Hertfordshire	Berkhamsptead	51.760	-0.568	-
H_UK_KEN_ke02	Alves et al 2019	1869	United Kingdom	Kent	Kent	51.279	0.522	-
H_UK_KEN_pl01	Alves et al 2019	1912	United Kingdom	Kent	Pluckley, Surrenden Park	51.174	0.771	-
H_UK_KEN_pl02	Alves et al 2019	1912	United Kingdom	Kent	Pluckley, Surrenden Park	51.174	0.771	-
H_UK_KEN_pl03	Alves et al 2019	1912	United Kingdom	Kent	Pluckley, Surrenden Park	51.174	0.771	-
H_UK_NTP_nt01	Alves et al 2019	1882	United Kingdom	Northamptonshire	-	52.273	-0.876	-

H_UK_NTP_sp01	Alves et al 2019	1945	United Kingdom	Northamptonshire	Spanhoe	52.568	-0.633	-
H_UK_NTP_sp02	Alves et al 2019	1945	United Kingdom	Northamptonshire	Spanhoe	52.568	-0.633	-
H_UK_SOM_cv01	Alves et al 2019	1924	United Kingdom	Somerset	Clevedon	51.442	-2.856	-
H_UK_SOM_cv02	Alves et al 2019	1924	United Kingdom	Somerset	Cleredon	51.442	-2.856	-
H_UK_STA_ch01	Alves et al 2019	1925	United Kingdom	Staffordshire	Chartley	52.852	-1.988	-
H_UK_STA_ch02	Alves et al 2019	1925	United Kingdom	Staffordshire	Chartley	52.852	-1.988	-
H_UK_STA_ch03	Alves et al 2019	1925	United Kingdom	Staffordshire	Chartley	52.852	-1.988	-
H_UK_STA_ut01	Alves et al 2019	1925	United Kingdom	Staffordshire	Uttoxeter	52.898	-1.866	-
H_UK_SUR_cy01	Alves et al 2019	1898	United Kingdom	Surrey	Croydon	51.357	-0.098	-
H_UK_SUR_nd01	Alves et al 2019	1934	United Kingdom	Surrey	Newdigate, Oaklands Park	51.143	-0.259	-
H_UK_WSU_cw01	Alves et al 2019	1865	United Kingdom	West Sussex	Cowfold	50.991	-0.273	-

<sup>a</sup> Sample code

<sup>b</sup> Publication source for sequencing data (\*Alves *et al.*, Parallel adaptation of rabbit populations to myxoma virus. *Science* **363**, 1319–1326 (2019))

<sup>c</sup> Year of collection/record

<sup>d</sup> Country of origin

<sup>e</sup> County (United Kingdom), State (Australia), or department (France) of origin

<sup>f</sup> Location (wild samples) or breed (domestic samples)

<sup>g</sup> Latitude

<sup>h</sup> Longitude

<sup>i</sup> Sample as representative of populations in analyses that require same number of individuals (*i.e.* Australian populations nucleotide diversity – Fig.5C and allele surfing Fig. 5D)

**Table S2** - Summary of the analyses of polymorphism and frequency spectrum tests of neutrality in the protein-coding sequence (CDS) variants. N corresponds to the number of individuals used in the analysis. Nucleotide diversity is measured as the average number of pairwise differences in a sample (69). Historical samples were excluded from the analysis.

<b>Population</b>	<b>n</b>	<b>Tajima's <i>D</i></b>	<b>Genetic Diversity</b>
France	26	0.203	0.1091%
Britain	25	0.888	0.0975%
Australia	40	1.123	0.0855%
New Zealand	5	0.462	0.0737%
Domestic	8	0.616	0.0701%
Tasmania	2	0.185	0.0574%
Australia (Victoria/NSW)	7	0.716	0.0803%
Australia (Queensland)	7	0.736	0.0770%
Australia (South Australia)	7	0.604	0.0717%
Australia (Western Australia)	7	0.732	0.0703%
Australia (Sydney)	4	0.379	0.0615%
Australia (Cattai)	1	-	0.0414%