

Supplementary Table S1. Sequencing statistics

Sample ID	Country	Site	Museum ID	material	C14 Lab ID	C14 date BP (uncal.)	medialcalfBP	C14 reference	sequencing g reads	Total number QC reads passed	Full genome mapped dupl	QC_passed_reads (w/o dupl)	duplicates	%end DNA	mean read length	mean coverage	number of SNPs after Uppurping (total 507,373)	#mtDNA	molecular sex
FS001	Poland	Perspektywiczna Cave	JPW 171		Poz-73958	3940 ± 35 BP	4366	Baca et al (2018)	56866195	257163383	250726615	5254668	6436768	0.20	46.25	0.9305	345452	B	M
FS002	Poland	Perspektywiczna Cave	JPW 2437		Poz-73959	3845 ± 35 BP	4262	Baca et al (2018)	446115392	242213752	228229314	30428446	13884438	0.13	51.52	0.5122	231275	F. s. silvestris	M
FS005	Poland	Shelter in Smolci II	SW5 III W-195		Poz-51327	4475 ± 35 BP	5158	Baca et al (2018)	373931709	228953685	198448363	65003302	30505322	0.28	52.17	1.1068	387679	A1	F
FS008	Poland	Deszczowa Cave	JDW 73		Poz-43993	4810 ± 40 BP	5524	Baca et al (2018)	424079213	268411726	246714175	111763184	21697551	0.42	51.31	1.9492	456848	F. s. silvestris	M
FS105	Poland	Kalkus 3	18396	coxae; sin.	Poz-124183	915 ± 30 BP	833	Kraiczar et al. (20)	237562936	128143524	120253434	43952535	7890090	0.34	47.61	0.7688	315564	F. s. silvestris	M
FS120	Poland	Shelter in Ułucka Valley 1	W-369	mandibula; dex.	Poz-124241	5960 ± 50 BP	6790	Kraiczar et al. (20)	409497163	216295173	202992596	57210002	16202577	0.26	48.44	0.9153	332401	F. s. silvestris	M
FS127	Poland	Starogrd M	1/18	femur; dex.	Poz-124197	1010 ± 30 BP	924	Kraiczar et al. (20)	216374385	93023524	64610566	35697605	28412958	0.38	50.76	0.6405	280801	D	M
FS128	Poland	Ładów 33	54/08	cranium	Poz-124240	1200 ± 35 BP	1119	Kraiczar et al. (20)	381136448	195305642	169161775	135520451	26143867	0.69	46.25	2.1798	463036	C	F
FS138	Poland	Miechów 3	feature 1374; ID:3081	mandibula; dex.	Poz-126664	4710 ± 35 BP	5469	this study	426986337	234483637	213611844	68647639	29566693	0.38	48.19	1.443	466563	A1	F
FS172	Serbia	Pešturina	geological layer 2	MI III sin.				this study	207491177	162130126	151769514	26342378	10360612	0.16	42.58	0.3766	181955	F. s. silvestris	F
			Sector II, infill and the floor level of House 7 (profil 3, segment 1), exc. layer 4	humerus	Poz-139481													A1	
FS174	Serbia	Pešina		MI IV		7210 ± 40	8009	this study	380059992	303290678	299172905	24545933	4120771	0.08	47.91	0.3516	171961	C	F
FS180	Serbia	Velik Romuliana-Gamzigrad		MI IV	Poz-148297	1535 ± 30 BP	1403	this study	205160175	178672526	169182120	113233583	9490406	0.63	54.07	2.1545	468821	C	M
FS185	Serbia	Caricin Grad	Lower Town, Sector Q	mandibula	Poz-148105	1510 ± 30 BP	1379	this study	192558386	163011653	159259724	24739493	3751929	0.15	47.99	0.3971	201978	A2	F
FS196	Poland	Poludniowa Cave		femur; sin.	Poz-148240	2975 ± 30 BP	3146	this study	127911376	80609163	78730252	26354850	1878911	0.36	49.15	0.4909	247382	F. s. silvestris	M
FS220	Serbia	Vinča-Belo Brdo	Unit 950; Date: 06.09.2006	right humerus	Poz-148245	5680 ± 40 BP	6460	this study	185789993	148916986	147696634	9807781	2218862	0.05	51.41	0.123	68406	F. s. silvestris	F
			Date: 19.09.2013; Trench 3; Square n22e; Split 15	left femur	Poz-148246	4390 ± 35 BP	4949	this study	471747007	366097253	344813770	14963485	21283483	0.04	53.8	0.2321	97631	A1	F
FS222	Serbia	Bubanj		metacarp. 1															
FS234	Poland	Solna Jama cave		metatarsus IV; dex.	Poz-148379	4475 ± 35 BP	5158	this study	215299680	78431925	68639096	32729627	7452037	0.43	38.78	0.4364	223252	F. s. silvestris	M
FS240	Poland	Shelter in Smolci II	W-254		Poz-148254	6390 ± 40 BP	7314	this study	157899480	97291355	91304590	57307659	5986765	0.59	46.37	0.9508	349468	F. s. silvestris	F
FS243	Poland	Solna Jama cave	ISEZ MP/1269	cranium	Poz-164259	9150 ± 50 BP	10318	this study	36924515	278857720	262727760	64756138	16129990	0.23	46.68	0.9802	339274	F. s. silvestris	M
FS252	Poland	Raj cave		ibula dex.	Poz-164486	7840 ± 50 BP	8627	this study	343410668	271203804	225508077	68764110	45695727	0.33	38.42	1.1698	343150	F. s. silvestris	M
FS259	Poland	Konieczka cave	1001/0015; layer 4		Poz-164526	7300 ± 50 BP	8104	this study	262701478	210341231	182877864	172037028	17463567	0.82	46.93	2.8685	485229	F. s. silvestris	F
FS261	Poland	Zarska cave	880	femur; dex.															
FS266	Poland	Gazimierza Wiekha, strła	feature 34; ID:13	mandibula (c), dp3, dp4, (m1) sin	Poz-164867	4005 ± 35 BP	4477	this study	396554307	307887597	271604450	58880467	36283147	0.19	46.28	0.8879	272185	F. s. silvestris	M

Supplementary Table S2. Published datasets

modern samples

Species-Subspecies	ID	Country - Region
<i>Felis catus</i> (Domestic)	felCat.CVB6166.Morpheus	NA
<i>Felis catus</i> (Domestic)	felCat.Fcat20907.BlueJasmine	Canada
<i>Felis catus</i> (Domestic)	felCat.Fcat20784.Imortantum	USA
<i>Felis catus</i> (Domestic)	felCat.CVB18351.Charlie	NA
<i>Felis catus</i> (Domestic)	felCat.Fcat16274.Shiya	NA
<i>Felis catus</i> (Domestic)	felCat.Fcat22335.Selena	NA
<i>Felis catus</i> (Domestic)	felCat.Fcat22361.Anna	NA
<i>Felis catus</i> (Domestic)	felCat.Fcat22054.Chester	NA
<i>Felis catus</i> (Domestic)	felCat.CVB15266.20680	USA
<i>Felis catus</i> (Domestic)	felCat.CVB6197.Putney	USA
<i>Felis catus</i> (Domestic)	felCat.CVB2613.Osiris	NA
<i>Felis catus</i> (Domestic)	felCat.Fcat20822.Stradivarious	Europe
<i>Felis catus</i> (Domestic)	felCat.Hills1.Sizzy	Western
<i>Felis catus</i> (Domestic)	felCat.Fcat18666.Portugal	Portugal
<i>Felis catus</i> (Domestic)	felCat.Fcat18801.Italy	Italy
<i>Felis catus</i> (Domestic)	felCat.DS05501.Mateo	UK
<i>Felis catus</i> (Domestic)	felCat.Katze169.Moischily	Germany
<i>Felis catus</i> (Domestic)	felCat.Hills2.Question	Western
<i>Felis lybica lybica</i>	FSI47	Israel
<i>Felis lybica lybica</i>	FSI48	Israel
<i>Felis lybica lybica</i>	FSI51	Israel
<i>Felis silvestris</i>	FSX360	Portugal
<i>Felis silvestris</i>	FSX392	Scotland
<i>Felis silvestris</i>	FSX405	Scotland
<i>Felis bieti</i>	FB14	China
<i>Felis bieti</i>	FBIP0004	China
<i>Felis bieti</i>	FBIP0008	China
<i>Felis bieti</i>	FBIP0003	China
<i>Felis bieti</i>	FBIP0026	China
<i>Felis lybica ornata</i>	FSIP0006	China
<i>Felis lybica ornata</i>	FSI204	Kazakhstan
<i>Felis lybica ornata</i>	FLI3	Tajikistan
<i>Felis lybica ornata</i>	FLI4	Kazakhstan
<i>Felis silvestris</i>	FA699	Germany
<i>Felis silvestris</i>	FA807	Germany
<i>Felis silvestris</i>	FB139	Germany
<i>Felis silvestris</i>	FB434	Germany
<i>Felis silvestris</i>	FC779	Germany
<i>Felis silvestris</i>	FD582	Germany

<i>Felis silvestris</i>	FE384	Germany
<i>Felis silvestris</i>	FF567	Germany
<i>Felis silvestris</i>	FF975	Germany
<i>Felis silvestris</i>	FG711	Germany
<i>Felis lybica lybica</i>	46_Fsl	Sardinia
<i>Felis lybica lybica</i>	52_Fsl	Sardinia
<i>Felis lybica lybica</i>	53_Fsl	Sardinia
<i>Felis silvestris</i>	78_Fss	Italy
<i>Felis silvestris</i>	79_Fss	Italy
<i>Felis silvestris</i>	99_Fss	Italy
<i>Felis lybica lybica</i>	778_Fsl	Morocco
<i>Felis lybica lybica</i>	779_Fsl	Tunisia
<i>Felis silvestris</i>	997_Fss	Italy
<i>Felis silvestris</i>	1294_Fss	Italy
<i>Felis silvestris</i>	1302_Fss	Italy
<i>Felis silvestris</i>	1611_Fss	Italy
<i>Felis silvestris</i>	BG07	Bulgaria
<i>Felis silvestris</i>	BG5	Bulgaria
<i>Felis silvestris</i>	BG16	Bulgaria

ancient samples

Sample ID	Site	Country
BHHL01	Bernhardsthal	Austria
MTR01B	Mautern - vicus Ost	Austria
PETR06	Petronell-Carnuntum	Austria
PETR08B	Petronell-Carnuntum	Austria
SBR01	Salzburg - Residenz	Austria
TRMR01B	Traismauer	Austria
BRPA24	Parking 58, Brussels	Belgium
BRPA27	Parking 58, Brussels	Belgium
BREM05	Bremen; 201-Altstadt, Marktplatz	Germany
BREM07	Bremen; 253-Altstadt, Am Wall	Germany
HAIS01	Haithabu, settlement area	Germany
HAIS04	Haithabu, settlement area	Germany
HAIS10	Haithabu, settlement area	Germany
LHM02	Lauchheim-Mittelhofen	Germany
LHM03	Lauchheim-Mittelhofen	Germany
AF03	Alba Fucens -Cisterna (Fucino, Abruzzi)	Italy
CAST02	Castiglione in Sabina	Italy
CEC03	Rome, S. Cecilia in Trastevere	Italy
FLUM02	nuraghe Flumenelongu, Sardinia	Italy
GRA01	Graffignano (Viterbo, Latium)	Italy
GSA01	Genoni Santu Antine, Sardinia	Italy
PAD01	Padova Via Cesare Battisti (Veneto)	Italy
PNE02	Palatino North East slope (Rome)	Italy

PNE03	Palatino North East slope (Rome)	Italy
ROC04	Roca vecchia (Melendugno, Lecce)	Italy
SCAT01	Nardò "torre santa Caterina"	Italy
SDUC02B	Sassari, palazzo ducale, Sardinia	Italy
TERT03	Tertenia, Sardinia	Italy
BP01	Bank of Portugal	Portugal
BP02	Bank of Portugal	Portugal
BP03	Bank of Portugal	Portugal
PAL09	Palmela Castle	Portugal
PAL10	Palmela Castle	Portugal
VIA04	Viminacium/Amphitheatre	Serbia
VIA06	Viminacium/Amphitheatre	Serbia
LAB01	Labastida	Spain
DH06	Demircihüyük	Turkey
IRT01	Iznik - Roman theatre	Turkey
MRY07	Yenikapı, Marmaray exc.	Turkey
MRY08	Yenikapı, Marmaray exc.	Turkey
MRY09	Yenikapı, Marmaray exc.	Turkey
MRY10	Yenikapı, Marmaray exc.	Turkey
SA14	Sagalassos	Turkey
BHHL03	Bernhardsthal	Austria
TON03	Tongeren, Industrie Oost	Belgium
DUR01	Durankulak	Bulgaria
DUR02	Durankulak	Bulgaria
DUR03	Durankulak	Bulgaria
DUR07	Durankulak	Bulgaria
KOP04	Koprivec	Bulgaria
BG07	#N/A	Bulgaria
BG5	#N/A	Bulgaria
BG16	#N/A	Bulgaria
ECLY01	Eclý	France
KASP01	Kassope	Greece
KASP02	Kassope	Greece
GLCA01	Glencurran Cave, Co. Clare	Ireland
AC01	Arene Candide (Finale Ligure, Savona, Liguria)	Italy
COC01	Grotta del Cocci (Narni, Umbria)	Italy
DOS01	Galgenbühel/Dos de la Forca-Salorno	Italy
DOS03	Galgenbühel/Dos de la Forca-Salorno	Italy
MUS01	Musarna (Viterbo, Latium)	Italy
PRN02	Partanna C. da Capo d'acqua	Italy
ROC01	Roca vecchia (Melendugno, Lecce)	Italy
ROC02	Roca vecchia (Melendugno, Lecce)	Italy
SAR01	Saracena (Cosenza, Calabria)	Italy
VIN04	Viminacium-Nad Klepačkom	Serbia
CET01	Cova de Els Trocs, Huesca	Spain
TAB02	Tabernas, Spain	Spain

ASK01	Aşıklı Höyük	Turkey
BA02	Bademağacı	Turkey
BA03	Bademağacı	Turkey
MENT01	Menteşe	Turkey
AJ419		Scotland
Fishb2		England

SRA	NCBI_BIOSAMPLE
SRR11392458	SAMN14425477
SRR11392498	SAMN14425584
SRR11392553	SAMN14425422
SRR11392588	SAMN14425449
SRR11392597	SAMN14425547
SRR11392600	SAMN14425597
SRR11392604	SAMN14425544
SRR11392605	SAMN14425590
SRR11392607	SAMN14425454
SRR11392635	SAMN14425452
SRR11392636	SAMN14425593
SRR11392640	SAMN14425505
SRR5055407	SAMN05980362
SRR5040114/SRR5040108	SAMN05980325
SRR5040117/SRR5040124	SAMN05980326
SRR11392568	SAMN14425581
SRR11392572	SAMN14425570
SRR5055383	SAMN05980363
ERR10494332	SAMEA112127403
ERR10494333-ERR10494335	SAMEA112127404
ERR10494336-ERR10494341	SAMEA112127405
ERR10494342, ERR10494344	SAMEA112127406
ERR10494345	SAMEA112127407
ERR10494346-ERR10494349	SAMEA112127408
ERR10494327	SAMEA112127400
SRR7621226	SAMN09509265
SRR7621227	SAMN09509266
SRR7621229	SAMN0950926
SRR7621235	SAMN09509267
SRR7621238	SAMN09509272
ERR10494331	SAMEA112127402
SRR15116526	SAMN20192906
SRR15116525	SAMN20192907
ERR4671936, ERR4777100	SAMEA7324340
ERR4671937, ERR4777101	SAMEA7324341
ERR4671940, ERR4777104	SAMEA7324346
ERR4777106, ERR4671942	SAMEA7324348
ERR4671948, ERR4777112	SAMEA7324355
ERR4671955, ERR4777119	SAMEA7324363

ERR4777121, ERR4671957
ERR4777130, ERR4671966
ERR4671967, ERR4777131
ERR4777135, ERR4671971

SAMEA7324365
SAMEA7324378
SAMEA7324379
SAMEA7324383

Chronology / C14 date

770AD (95.4%) 980AD
50BC (95.4%) 80AD
120AD (87.6%) 260AD / 290AD (7.8%) 320AD
20AD (2.6%) 50AD / 60AD (92.8%) 210AD
15/16th centuries
60AD (95.4%) 220AD
end 14th - 15th cent. AD
end 14th - 15th cent. AD
1440AD (65.0%) 1530AD / 1570AD (30.4%) 1630AD
16th
800-1050 AD
800-1050 AD
800-1050 AD
8th/9th century CE
8th/9th century CE
210-340 AD (cal AMS)
11-12th c AD
12-13th c AD
600AD (2.7%) 620AD / 630AD (86.2%) 690AD / 740AD (6.6%) 780AD
Late 15th-Early 16th cent AD
340BC (3.9%) 320BC / 200BC (91.5%) 50BC
1400AD (95.4%) 1440AD
230AD (95.4%) 370AD

End 4th cent.-beg. 5th cent AD (Roman)

Medieval

17-18th c AD

19th AD

4th-5th c AD

890AD (32.4%) 930AD / 940AD (63.0%) 1020AD

900AD (4.6%) 920AD / 970AD (90.8%) 1040AD

890AD (11.0%) 920AD / 950AD (84.4%) 1030AD

12-13th c

11-12th c

250AD (16.8%) 280AD / 330AD (78.6%) 420AD

20AD (95.4%) 210AD

end 15th-early 16th c.

1302 (74.8%) 1369calAD / 1380 (20.6%) 1401calAD

575AD (95.4%) 650AD

4th-14th cent AD?

4th-14th cent AD?

650AD (48.9%) 710AD / 720AD (46.5%) 780AD (dated twice accidentally)

640AD (75.4%) 690AD / 740AD (20.0%) 780AD

Early Byzantine

Roman

40BC (4.0%) 10BC / AD (91.4%) 130AD

4450BC (95.4%) 4330BC

Aeneolithic 4200-4100 cal BC

Aeneolithic 4200-4100 cal BC

Aeneolithic 4200-4100 cal BC

5480BC (95.4%) 5360BC

historic (museum collection)

historic (museum collection)

historic (museum collection)

20AD (2.1%) 50AD / 60AD (93.3%) 210AD

400BC (33.6%) 340BC / 310BC (61.8%) 200BC

4th-1st cent BC

4778±24 BP (UBA-45133), 3634-3526 cal BC (Neolithic)

10-11 ka (Epigravettian)

5370BC (95.4%) 5210BC

8240BC (95.4%) 7940BC

8,500-7,500 cal BC

360AD (95.4%) 540AD

Early Bronze Age

1499 (84.4%) 1382 calBC / 1341 (11.1%) 1311 calBC

1401 (90.3%) 1256 calBC / 1248 (5.1%) 1227 calBC

Early Neolithic

990AD (49.5%) 1050AD / 1080AD (45.9%) 1160AD

5300BC (9.4%) 5250BC / 5230BC (86.0%) 5040BC (dated twice accidentally)

2,700-2,400 BC (Phase III)

7950BC (95.4%) 7610BC

6430BC (61.9%) 6330BC / 6320BC (33.5%) 6240BC

6390BC (90.0%) 6210BC / 6140BC (5.4%) 6090BC

6073 (95.4%) 5986 calBC

[illegible]

[illegible]

Species determination based on mtDNA

Felis l. lybica / Felis catus clade IV-D
Felis l. lybica / Felis catus clade IV-C
Felis l. lybica / Felis catus clade IV-C
Felis l. lybica / Felis catus clade IV-C
Felis l. lybica / Felis catus clade IV-A2
Felis l. lybica / Felis catus clade IV-C
Felis l. lybica / Felis catus clade IV-C
Felis l. lybica / Felis catus clade IV-C
Felis l. lybica / Felis catus clade IV-C
Felis l. lybica / Felis catus clade IV-C
Felis l. lybica / Felis catus clade IV-C
Felis l. lybica / Felis catus clade IV-C
Felis l. lybica / Felis catus clade IV-C
Felis l. lybica / Felis catus clade IV-C
Felis l. lybica / Felis catus clade IV-A2
Felis l. lybica / Felis catus clade IV-C
Felis l. lybica / Felis catus clade IV-A2
Felis l. lybica / Felis catus clade IV-C
Felis l. lybica / Felis catus clade IV-C
Felis l. lybica / Felis catus clade IV-C
Felis l. lybica / Felis catus clade IV-C
Felis l. lybica / Felis catus clade IV-E
Felis l. lybica / Felis catus clade IV-A2
Felis l. lybica / Felis catus clade IV-C

Species determination based on nDNA

[illegible]

Felis l. lybica /Felis catus clade IV-A0
Felis l. lybica /Felis catus clade IV-A0
Felis l. lybica /Felis catus clade IV-A0
Felis l. lybica /Felis catus clade IV-A2
Felis silvestris clade I
Felis l. lybica /Felis catus

Felis silvestris
Felis silvestris
Felis silvestris
Felis silvestris
Felis silvestris
Felis l. lybica /Felis catus

SHORT ID in ADMIXTURE plots	number of SNPs after LDpruning (total 507,373)
FC_MC	507344
FC_SR	507312
FC_AW	507298
FC_RB5	507312
FC_RB6	507334
FC_DR	507345
FC_RA	507365
FC_TA	506818
FC_PE	507234
FC_SI	507343
FC_EM	507331
FC_DL	507266
FC_SP	507229
FC_OC	507255
FC_RB_2	507320
FC_RB5	506712
FC_RB6	506611
FC_RB3	507186
FLL_IS1	505936
FLL_IS2	507049
FLL_IS3	506773
FS_PT	507131
FS_SCT1	505034
FS_SCT2	505831
Fbieti1	506849
Fbieti2	507081
Fbieti3	506861
Fbieti4	507049
Fbieti5	506985
FLO2	506848
FLO1	503390
FLO4	502818
FLO3	506596
FS_DE1	507094
FS_DE2	507199
FS_DE3	507334
FS_DE4	507130
FS_DE5	507193
FS_DE6	507327

FS_DE7	507332
FS_DE8	506487
FS_DE9	507305
FS_DE10	507324
FLLSar1	479323
FLLSar2	502616
FLLSar3	503905
FS_IT1	485338
FS_IT2	489936
FS_IT3	488549
FLL_MA	500705
FLL_TN	496353
FS_IT4	502799
FS_IT5	503349
FS_IT6	496486
FS_IT7	502402
BG07	269105
BG5	135274
BG16	96878

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BHHL01	234032
MTR01B	417104
PETR06	247549
PETR08B	353041
SBR01	241989
TRMR01B	146607
BRPA24	159470
BRPA27	163503
BREM05	155929
BREM07	141636
HAIS01	172182
HAIS04	129926
HAIS10	129091
LHM02	178189
LHM03	115719
AF03	183417
CAST02	64686
CEC03	161278
FLUM02	153184
GRA01	357401
GSA01	130694
PAD01	121439
PNE02	169407

PNE03	271008
ROC04	129138
SCAT01	304284
SDUC02B	141191
TERT03	74538
BP01	106121
BP02	104026
BP03	101941
PAL09	181172
PAL10	186304
VIA04	253204
VIA06	278301
LAB01	148851
DH06	118107
IRT01	170190
MRY07	275574
MRY08	203777
MRY09	160217
MRY10	277015
SA14	259859
BHHL03	117833
TON03	116601
DUR01	178607
DUR02	258199
DUR03	243795
DUR07	193438
KOP04	120825
BG07	269105
BG5	135274
BG16	96878
ECLY01	221502
KASP01	211545
KASP02	156953
GLCA01	148141
AC01	218403
COC01	132956
DOS01	119056
DOS03	288143
MUS01	131511
PRN02	148409
ROC01	120692
ROC02	106585
SAR01	202884
VIN04	81474
CET01	257544
TAB02	203446

ASK01	13308
BA02	122762
BA03	115020
MENT01	83311
AJ419	103199
Fishb2	498085

Supplementray Table S3. Dstatistics

pop1	pop2	pop3	pop4	est	se	z
FS001	aFS	FLL	FCH	0.120602180	0.012635177	9.544953269
FS001	aFS	779_FII	FCH	0.066892065	0.013045270	5.127686912
FS001	aFS	SRR1139264C	FCH	0.084793325	0.013115779	6.464985764
FS001	aFS	778_FII	FCH	0.070990494	0.014332333	4.953170726
FS002	aFS	FLL	FCH	0.093675079	0.015079237	6.212189564
FS002	aFS	779_FII	FCH	0.053760459	0.015190417	3.539103536
FS002	aFS	SRR1139264C	FCH	0.068875279	0.015541717	4.431638855
FS002	aFS	778_FII	FCH	0.058389729	0.015896146	3.673200189
FS005	aFS	FLL	FCH	0.106902499	0.015837521	6.749951161
FS005	aFS	779_FII	FCH	0.058168119	0.019251110	3.021546162
FS005	aFS	SRR1139264C	FCH	0.070566666	0.019908005	3.544637633
FS005	aFS	778_FII	FCH	0.071682774	0.020212658	3.546429710
FS008	aFS	FLL	FCH	0.113847316	0.010758145	10.58243000
FS008	aFS	779_FII	FCH	0.076029730	0.012205966	6.228898700
FS008	aFS	SRR1139264C	FCH	0.085743201	0.011702309	7.327032430
FS008	aFS	778_FII	FCH	0.080581193	0.012498433	6.447303511
FS105	aFS	FLL	FCH	0.123567239	0.012427443	9.943093925
FS105	aFS	779_FII	FCH	0.088211184	0.013871135	6.359334166
FS105	aFS	SRR1139264C	FCH	0.100736951	0.012789217	7.876709539
FS105	aFS	778_FII	FCH	0.093351700	0.015665987	5.958877514
FS120	aFS	FLL	FCH	0.105192926	0.012871775	8.172370836
FS120	aFS	779_FII	FCH	0.056536737	0.012899577	4.382836554
FS120	aFS	SRR1139264C	FCH	0.067987926	0.013007676	5.226753958
FS120	aFS	778_FII	FCH	0.062732548	0.014173289	4.426110813
FS138	aFS	FLL	FCH	0.076655796	0.015338490	4.997610337
FS138	aFS	779_FII	FCH	0.034634202	0.018870738	1.835339041
FS138	aFS	SRR1139264C	FCH	0.032871419	0.018685935	1.759152991
FS138	aFS	778_FII	FCH	0.027356449	0.019832438	1.379379003
FS172	aFS	FLL	FCH	0.083930656	0.016615532	5.051337297
FS172	aFS	779_FII	FCH	0.006386416	0.019164331	0.333244913
FS172	aFS	SRR1139264C	FCH	0.017338113	0.019409180	0.893294475
FS172	aFS	778_FII	FCH	0.023841128	0.019959521	1.194473960
FS174	aFS	FLL	FCH	0.135603128	0.017315954	7.831108881
FS174	aFS	779_FII	FCH	0.079974581	0.019833750	4.032247045
FS174	aFS	SRR1139264C	FCH	0.074361304	0.020358599	3.652574715
FS174	aFS	778_FII	FCH	0.083284907	0.020199727	4.123070810
FS196	aFS	FLL	FCH	0.102826389	0.014262434	7.209595748
FS196	aFS	779_FII	FCH	0.081009553	0.014857161	5.452559251
FS196	aFS	SRR1139264C	FCH	0.072565238	0.014691306	4.939332029
FS196	aFS	778_FII	FCH	0.069021125	0.015305945	4.509432263
FS220	aFS	FLL	FCH	0.102340942	0.025159265	4.067723748
FS220	aFS	779_FII	FCH	0.050016830	0.027487231	1.819638696
FS220	aFS	SRR1139264C	FCH	0.035593392	0.028221670	1.261207872
FS220	aFS	778_FII	FCH	0.038983083	0.026918347	1.448197483

FS222	aFS	FLL	FCH	0.084995392	0.021476404	3.957617455
FS222	aFS	779_FII	FCH	0.060704467	0.024349109	2.493087823
FS222	aFS	SRR1139264C	FCH	0.036943228	0.023827632	1.550436425
FS222	aFS	778_FII	FCH	0.031045883	0.024523083	1.265986118
FS234	aFS	FLL	FCH	0.123859054	0.014680634	8.436900471
FS234	aFS	779_FII	FCH	0.061227798	0.018510440	3.307743911
FS234	aFS	SRR1139264C	FCH	0.087176324	0.019051822	4.575747225
FS234	aFS	778_FII	FCH	0.070732656	0.019767501	3.578229494
FS240	aFS	FLL	FCH	0.097016533	0.016153117	6.006056227
FS240	aFS	779_FII	FCH	0.048838448	0.016685099	2.927069619
FS240	aFS	SRR1139264C	FCH	0.061530094	0.016193949	3.799573023
FS240	aFS	778_FII	FCH	0.051869655	0.016601446	3.124405778
FS243	aFS	FLL	FCH	0.106348618	0.014840961	7.165884598
FS243	aFS	779_FII	FCH	0.041919830	0.018564406	2.258075392
FS243	aFS	SRR1139264C	FCH	0.061188748	0.018854779	3.245264555
FS243	aFS	778_FII	FCH	0.057163173	0.019392088	2.947757467
FS252	aFS	FLL	FCH	0.097421818	0.013130675	7.419406291
FS252	aFS	779_FII	FCH	0.064668148	0.014633344	4.419232379
FS252	aFS	SRR1139264C	FCH	0.067683596	0.014676918	4.611567315
FS252	aFS	778_FII	FCH	0.064670382	0.014522424	4.453139413
FS259	aFS	FLL	FCH	0.135295207	0.013138322	10.29775339
FS259	aFS	779_FII	FCH	0.100686947	0.014241181	7.070126023
FS259	aFS	SRR1139264C	FCH	0.099296983	0.013275004	7.479996041
FS259	aFS	778_FII	FCH	0.096495174	0.014117768	6.835016213
FS261	aFS	FLL	FCH	0.094660269	0.014288741	6.624815006
FS261	aFS	779_FII	FCH	0.053956177	0.018438560	2.926268501
FS261	aFS	SRR1139264C	FCH	0.061384843	0.018174845	3.377461559
FS261	aFS	778_FII	FCH	0.050741212	0.018787736	2.700762369
FS266	aFS	FLL	FCH	0.102418572	0.013576290	7.543929350
FS266	aFS	779_FII	FCH	0.070677764	0.014791388	4.778304898
FS266	aFS	SRR1139264C	FCH	0.067887634	0.014645317	4.635449997
FS266	aFS	778_FII	FCH	0.053670256	0.014723820	3.645131016

p	nSNPs
1.361689785	271470
2.933237094	265607
1.013083456	271406
7.301386033	267867
5.225133731	182100
0.000401488	178108
9.351955830	182059
0.000239531	179729
1.478949300	288834
0.002514872	282546
0.000393153	288765
0.000390488	285064
3.595111771	359795
4.697253726	352081
2.353048995	359710
1.138576362	355089
2.702989043	247746
2.026301581	242344
3.361150309	247687
2.539763623	244412
3.023873657	262297
1.171439991	256741
1.725118154	262231
9.594724882	258936
5.804512723	320436
0.066455469	313568
0.078551526	320359
0.167777929	316320
4.387275526	140883
0.738949417	137588
0.371699495	140848
0.232292620	138973
4.835856389	135058
5.524606617	132165
0.000259624	135021
3.738547081	133303
5.611822606	192365
4.965002082	188047
7.839063554	192318
6.500134445	189780
4.747461560	53453
0.068814044	52266
0.207233962	53442
0.147561828	52739

aFS = GLCA01, CET01, TAB02B

7.570106595	76883
0.012663751	75226
0.121036801	76865
0.205518052	75888
3.258637203	346307
0.000940507	338637
4.745232192	346219
0.000345929	341691
1.900902922	171959
0.003421722	167914
0.000144945	171914
0.001781645	169538
7.728585873	274582
0.023940959	268627
0.001173415	274523
0.003200880	271036
1.176465028	267029
9.905209621	261238
3.996441941	266969
8.462376848	263528
7.212605614	267774
1.547930548	261781
7.432485006	267715
8.199575440	264168
3.476833257	382264
0.003430547	374017
0.000731581	382174
0.006918074	377280
4.560182492	216027
1.767791781	211618
3.561618140	215975
0.000267255	213302

Supplementary Table S4. f4 ratio results

$$\alpha = f4(pop1, pop2; test, pop4) / f4(pop1, pop2; pop5, pop4)$$

pop1=mFS, pop2=F.chaus, pop3=test, pop4=F.l.lybica from Levant, p

Levant

pop1	pop2	pop3	pop4	pop5
mFS	FCH	FS001	FLL	nFS
mFS	FCH	FS002	FLL	nFS
mFS	FCH	FS005	FLL	nFS
mFS	FCH	FS008	FLL	nFS
mFS	FCH	FS105	FLL	nFS
mFS	FCH	FS120	FLL	nFS
mFS	FCH	FS127	FLL	nFS
mFS	FCH	FS128	FLL	nFS
mFS	FCH	FS138	FLL	nFS
mFS	FCH	FS172	FLL	nFS
mFS	FCH	FS174	FLL	nFS
mFS	FCH	FS180	FLL	nFS
mFS	FCH	FS185	FLL	nFS
mFS	FCH	FS196	FLL	nFS
mFS	FCH	FS220	FLL	nFS
mFS	FCH	FS222	FLL	nFS
mFS	FCH	FS234	FLL	nFS
mFS	FCH	FS240	FLL	nFS
mFS	FCH	FS243	FLL	nFS
mFS	FCH	FS252	FLL	nFS
mFS	FCH	FS259	FLL	nFS
mFS	FCH	FS261	FLL	nFS
mFS	FCH	FS266	FLL	nFS

mFS AC01, AJ419, SAR01
nFS TAB02,CET01,GLCA01

op5=aFS

alpha	se	z
0.9307765	0.003907792	238.1848
0.9278311	0.004273608	217.1072
0.9300819	0.003992955	232.9307
0.9379866	0.003265287	287.2601
0.9276594	0.004351376	213.1876
0.9300182	0.004223639	220.1936
0.1573003	0.008260968	19.04139
0.1984226	0.009886249	20.07056
0.9353428	0.003929595	238.0252
0.8519618	0.005414652	157.3438
0.9120812	0.005521359	165.1914
0.1749994	0.01113792	15.71204
0.1077749	0.009242932	11.66025
0.9376523	0.004391543	213.5132
0.8948614	0.008337924	107.3242
0.9146086	0.006610955	138.3474
0.9364297	0.003715519	252.032
0.9392347	0.004508672	208.3174
0.9336786	0.003849946	242.5173
0.9487956	0.00394575	240.4601
0.9402319	0.00379512	247.7476
0.9316071	0.003763404	247.5438
0.9266363	0.004029754	229.9486

Supplementary Table S4.Results of BETS analysis

ID	Description	logML	mean logML
Model I	Tips; strict clock. CTMC rate prior, constant pop size	-29207,66	-29206,34
		-29205,03	
Model II	Tips; UCLN clock. CTMC rate prior, constant pop size	-29270,9	-29271,13
		-29271,31	
Model III	No tips; strict clock, constant pop size	-29384,57	-29383,57
		-29382,57	
Model IV	No tips; UCLN clock, constant pop size	-29269,31	-29268,86
		-29268,4	

Testing the tree prior model

Model I	Tips; strict clock. CTMC rate prior, constant pop size tree prior	-29207,66	-29206,34
		-29205,03	
Model II	Tips; strict clock. CTMC rate prior, Skygrid tree prior	-29158,8	-29160
		-29161,1	

Age estimates of not directly dated samples.

Sample	median age	95% HPD interval	
FS172	25967	34824	18849
FS234	7256	9955	4985