Tab. 2. Pairwise distances between nucleotide sequences of African wolf individuals. Green are possible dog or Grey wolf individuals. Yellow are sequences from Ethiopia.

	MT108908.1	MT108909.1	MT108910.1	MT108911.1	MT108912.1	MT108913.1	MT108914.1	MT108915.1
MT108908.1								
MT108909.1	0.01381							
MT108910.1	0.07898	0.07901						
MT108911.1	0.10705	0.11232	0.04754					
MT108912.1	0.09006	0.08436	0.03272	0.07298				
MT108913.1	0.06845	0.06848	0.01833	0.06780	0.03272			
MT108914.1	0.07898	0.07901	0.01833	0.06780	0.02316	0.01833		
MT108915.1	0.07967	0.09055	0.02796	0.06837	0.02335	0.02796	0.01847	
MT108916.1	0.07369	0.07372	0.00452	0.05253	0.02792	0.01369	0.01369	0.02319
MT108917.1	0.10144	0.09557	0.04259	0.01369	0.06780	0.05253	0.06266	0.07360
MT108918.1	0.08464	0.09557	0.03261	0.02316	0.06780	0.04230	0.05217	0.05260
MT108919.1	0.07396	0.08467	0.03261	0.07324	0.03769	0.03261	0.02309	0.01375
MT108920.1	0.07898	0.07345	0.02309	0.06244	0.00911	0.02309	0.01373	0.01384
MK659615.1	0.07898	0.07901	0.01833	0.06780	0.02316	0.01833	0.00000	0.01847
MK659616.1	0.07369	0.07372	0.02301	0.07298	0.02792	0.01369	0.00452	0.02319
MK659617.1	0.08464	0.09557	0.03261	0.07324	0.03769	0.03261	0.02309	0.01375
MK659618.1	0.06845	0.07901	0.01833	0.05757	0.02316	0.01833	0.00908	0.00916
MK659619.1	0.07927	0.07930	0.02309	0.07324	0.02801	0.02309	0.01373	0.01375
MK659620.1	0.08464	0.08467	0.02309	0.07324	0.02801	0.02309	0.01373	0.01375
MK659621.1	0.08495	0.07372	0.02792	0.07879	0.03294	0.02792	0.01845	0.01847
MK659622.1	0.06845	0.06848	0.01833	0.06780	0.03272	0.00000	0.01833	0.02796
MK659623.1	0.06870	0.07930	0.01839	0.05778	0.03283	0.01839	0.01839	0.00913
MK659624.1	0.06845	0.06848	0.01833	0.06780	0.02316	0.01833	0.00908	0.01847
JQ088678.1	0.07369	0.07372	0.01369	0.06266	0.01845	0.01369	0.00452	0.01379
JQ088679.1	0.07369	0.06823	0.01839	0.05737	0.01373	0.01839	0.01839	0.01853
JQ088680.1	0.07396	0.08467	0.02309	0.06288	0.02801	0.02309	0.01373	0.00454
JQ088681.1	0.07396	0.07399	0.02309	0.07324	0.03769	0.00454	0.02309	0.03287
JQ088682.1	0.07369	0.07372	0.01369	0.06266	0.02792	0.00452	0.01369	0.02319
JQ088683.1	0.06348	0.06848	0.02792	0.05757	0.03272	0.02792	0.02792	0.01847
JQ088684.1	0.07927	0.07372	0.02316	0.06266	0.01845	0.02316	0.01378	0.02335
MK392560.1_(reversed)	0.08972	0.08405	0.02309	0.06244	0.02783	0.03261	0.02309	0.03287

MK392561.1_(reversed)	0.08972	0.08975	0.01833	0.06780	0.03272	0.02773	0.01833	0.02796
MK392562.1_(reversed)	0.07927	0.09009	0.03743	0.07850	0.04259	0.03743	0.02783	0.01841
MK392563.1_(reversed)	0.07927	0.07930	0.01839	0.06804	0.03283	0.00911	0.01839	0.02805
MK392564.1_(reversed)	0.07927	0.07930	0.02309	0.07324	0.03769	0.01373	0.02309	0.03287
MK392565.1_(reversed)	0.07927	0.06823	0.02783	0.07850	0.04259	0.00911	0.02783	0.03774
MK392566.1_(reversed)	0.07898	0.07901	0.02773	0.07821	0.03272	0.00908	0.01833	0.02796
MK392567.1_(reversed)	0.08432	0.08436	0.02301	0.07298	0.02792	0.01369	0.01369	0.02319
MK392568.1_(reversed)	0.07369	0.07372	0.02301	0.07298	0.02792	0.02301	0.01369	0.02319
MK392569.1_(reversed)	0.08464	0.07345	0.02309	0.06288	0.02801	0.02309	0.01373	0.02327
MK392570.1_(reversed)	0.07898	0.07901	0.01833	0.05757	0.02316	0.01833	0.00908	0.01847
MK392571.1_(reversed)	0.08016	0.07960	0.03782	0.06829	0.05309	0.03782	0.03782	0.02814
MK392572.1_(reversed)	0.08033	0.08037	0.02337	0.06370	0.02836	0.02337	0.01390	0.02356
KM670013.1	0.06870	0.07930	0.01839	0.05778	0.03283	0.01839	0.01839	0.00913
KM670012.1	0.07396	0.08467	0.02309	0.06288	0.02801	0.02309	0.01373	0.00454
KT378607.1	0.08464	0.07345	0.02309	0.06288	0.02801	0.02309	0.01373	0.02327
HQ845259.1	0.08464	0.08975	0.03756	0.01839	0.06244	0.04738	0.05737	0.05785

Orange is smallest distance, blue is the biggest distance. Nucleotide sequences are from GenBank.

MT108916.1	MT108917.1	MT108918.1	MT108919.1	MT108920.1	MK659615.1	MK659616.1	MK659617.1	MK659618.1	MK659619.1
0.04754									
0.03743	0.01845								
0.02783	0.07850	0.05737							
0.01839	0.05737	0.05737	0.02792						
0.01369	0.06266	0.05217	0.02309	0.01373					
0.01833	0.05757	0.04721	0.02783	0.01839	0.00452				
0.02783	0.07850	0.05737	0.00908	0.02792	0.02309	0.02783			
0.01369	0.06266	0.04230	0.01373	0.01373	0.00908	0.01369	0.01373		
0.01839	0.06804	0.05737	0.01833	0.01845	0.01373	0.01839	0.01833	0.01373	
0.01839	0.06804	0.05737	0.00908	0.01845	0.01373	0.01839	0.00908	0.01373	0.00908
0.02316	0.07351	0.06266	0.02309	0.02324	0.01845	0.02316	0.02309	0.01845	0.00454
0.01369	0.05253	0.04230	0.03261	0.02309	0.01833	0.01369	0.03261	0.01833	0.02309
0.01373	0.06288	0.04245	0.01369	0.02316	0.01839	0.02309	0.01369	0.00911	0.01369
0.01369	0.06266	0.05217	0.02309	0.01373	0.00908	0.01369	0.02309	0.00908	0.01373
0.00908	0.05757	0.04721	0.01839	0.00911	0.00452	0.00908	0.01839	0.00452	0.00911
0.01373	0.05235	0.05235	0.03272	0.00452	0.01839	0.02309	0.03272	0.01839	0.02316
0.01839	0.06804	0.04738	0.00908	0.01845	0.01373	0.01839	0.00908	0.00454	0.00908
0.01839	0.05778	0.04738	0.03756	0.02792	0.02309	0.01839	0.03756	0.02309	0.02792
0.00908	0.05757	0.04721	0.02783	0.01839	0.01369	0.01833	0.02783	0.01369	0.01839
0.02316	0.06266	0.05253	0.01373	0.02309	0.02792	0.03272	0.02309	0.01845	0.02309
0.01845	0.05757	0.05757	0.02801	0.00911	0.01378	0.01845	0.02801	0.01378	0.01851
0.02783	0.05737	0.05737	0.03756	0.01833	0.02309	0.02783	0.03756	0.02309	0.02792

0.02301	0.06266	0.05217	0.03261	0.02309	0.01833	0.02301	0.03261	0.01833	0.02309
0.03261	0.08380	0.06244	0.00452	0.03272	0.02783	0.03261	0.01369	0.01839	0.02301
0.01373	0.06288	0.05235	0.03272	0.02316	0.01839	0.02309	0.03272	0.01839	0.02316
0.01839	0.06804	0.05737	0.03756	0.02792	0.02309	0.02783	0.03756	0.02309	0.01845
0.02309	0.06288	0.05235	0.04245	0.03272	0.02783	0.02309	0.04245	0.02783	0.03272
0.02301	0.06266	0.05217	0.03261	0.02309	0.01833	0.01369	0.03261	0.01833	0.02309
0.01833	0.06780	0.05717	0.02783	0.01839	0.01369	0.01833	0.02783	0.01369	0.01839
0.01833	0.06780	0.05717	0.02783	0.01839	0.01369	0.01833	0.02783	0.01369	0.01839
0.01839	0.05778	0.04738	0.02792	0.01845	0.01373	0.01839	0.02792	0.01373	0.01845
0.01369	0.05253	0.04230	0.02309	0.01373	0.00908	0.01369	0.02309	0.00908	0.01373
0.03294	0.07351	0.06311	0.02324	0.04289	0.03782	0.04274	0.03283	0.02811	0.03283
0.01861	0.05852	0.04798	0.02826	0.01867	0.01390	0.01861	0.02826	0.01390	0.01867
0.01373	0.06288	0.04245	0.01369	0.02316	0.01839	0.02309	0.01369	0.00911	0.01369
0.01839	0.06804	0.04738	0.00908	0.01845	0.01373	0.01839	0.00908	0.00454	0.00908
0.01839	0.06804	0.05737	0.02792	0.01845	0.01373	0.01839	0.02792	0.01373	0.01845
0.04245	0.01373	0.00454	0.06266	0.05217	0.05737	0.05235	0.06266	0.04738	0.06266

MK659620.1	MK659621.1	MK659622.1	MK659623.1	MK659624.1	JQ088678.1	JQ088679.1	JQ088680.1	JQ088681.1	JQ088682.1
0.01373									
0.02309	0.02792								
0.01369	0.01839	0.01839							
0.01373	0.01845	0.01833	0.01839						
0.00911	0.01378	0.01369	0.01373	0.00452					
0.02316	0.02801	0.01839	0.01845	0.01839	0.01373				
0.00908	0.01373	0.02309	0.00452	0.01373	0.00911	0.02316			
0.02792	0.03283	0.00454	0.02316	0.02309	0.01839	0.02316	0.02792		
0.01839	0.02316	0.00452	0.01373	0.01369	0.00908	0.01373	0.01839	0.00911	
0.02309	0.02792	0.02792	0.00911	0.02792	0.02316	0.01839	0.01373	0.03283	0.02316
0.01851	0.02332	0.02316	0.02324	0.01378	0.00914	0.01373	0.01851	0.02801	0.01845
0.02792	0.03283	0.03261	0.03272	0.02309	0.01839	0.02301	0.02792	0.03756	0.02783

0.02309	0.02792	0.02773	0.02783	0.01833	0.01369	0.02783	0.02309	0.03261	0.02301
0.01369	0.02783	0.03743	0.01833	0.02783	0.02309	0.03756	0.01369	0.04245	0.03261
0.02316	0.02801	0.00911	0.01845	0.01839	0.01373	0.01845	0.02316	0.00452	0.00454
0.02792	0.02324	0.01373	0.02316	0.02309	0.01839	0.02316	0.02792	0.00908	0.00911
0.03272	0.02783	0.00911	0.02792	0.02783	0.02309	0.02792	0.03272	0.01378	0.01373
0.02309	0.02792	0.00908	0.02783	0.01833	0.01369	0.02783	0.02309	0.01373	0.01369
0.01839	0.02316	0.01369	0.02309	0.01369	0.00908	0.02309	0.01839	0.01839	0.00908
0.01839	0.02316	0.02301	0.02309	0.00452	0.00908	0.02309	0.01839	0.02783	0.01833
0.01845	0.01373	0.02309	0.02316	0.01373	0.00911	0.02316	0.01845	0.02792	0.01839
0.01373	0.01845	0.01833	0.01839	0.00908	0.00452	0.01839	0.01373	0.02309	0.01369
0.03283	0.02792	0.03782	0.01851	0.03782	0.03294	0.03795	0.02324	0.04289	0.03294
0.01867	0.02353	0.02337	0.02345	0.01390	0.00922	0.02345	0.01867	0.02826	0.01861
0.01369	0.01839	0.01839	0.00000	0.01839	0.01373	0.01845	0.00452	0.02316	0.01373
0.00908	0.01373	0.02309	0.00452	0.01373	0.00911	0.02316	0.00000	0.02792	0.01839
0.01845	0.01373	0.02309	0.02316	0.01373	0.00911	0.02316	0.01845	0.02792	0.01839
0.06266	0.06804	0.04738	0.04754	0.05737	0.05235	0.04721	0.05253	0.05253	0.05235

JQ088683.1	JQ088684.1	MK392560.1_(reversed)	MK392561.1_(reversed)	MK392562.1_(reversed)	MK392563.1_(reversed)	MK392564.1_(reversed)
0.02316						
0.03261	0.01839					

0.03756	0.02316	0.00454				
0.01839	0.03283	0.04245	0.03743			
0.02801	0.02324	0.03272	0.02783	0.03756		
0.03283	0.02801	0.03756	0.03261	0.04245	0.00452	
0.03769	0.03283	0.04245	0.03743	0.04738	0.01845	0.02316
0.03756	0.02316	0.03261	0.02773	0.03743	0.01839	0.02309
0.03272	0.01845	0.02783	0.02301	0.03261	0.01373	0.01839
0.03272	0.01845	0.02783	0.02301	0.03261	0.02309	0.02783
0.03283	0.01851	0.02792	0.02309	0.03272	0.02316	0.02792
0.02792	0.01378	0.02309	0.01833	0.02783	0.01839	0.02309
0.01857	0.03294	0.05290	0.04770	0.02801	0.03795	0.04289
0.03324	0.01874	0.02826	0.02337	0.03312	0.02345	0.02826
0.00911	0.02324	0.03272	0.02783	0.01833	0.01845	0.02316
0.01373	0.01851	0.02792	0.02309	0.01369	0.02316	0.02792
0.03283	0.01851	0.02792	0.02309	0.03272	0.02316	0.02792
0.04738	0.05235	0.05217	0.05737	0.06780	0.05757	0.06266

MK392565.1_(reversed)	MK392566.1_(reversed)	MK392567.1_(reversed)	MK392568.1_(reversed)	MK392569.1_(reversed)	MK392570.1_(reversed)

0.00911					
0.01373	0.00452				
0.03261	0.02301	0.01833			
0.02301	0.02309	0.01839	0.01839		
0.02783	0.01833	0.01369	0.01369	0.00454	
0.03769	0.04770	0.04274	0.04274	0.03283	0.03782
0.03312	0.02337	0.01861	0.01861	0.00925	0.00459
0.02792	0.02783	0.02309	0.02309	0.02316	0.01839
0.03272	0.02309	0.01839	0.01839	0.01845	0.01373
0.02301	0.02309	0.01839	0.01839	0.00908	0.01373
0.05757	0.05737	0.06244	0.06244	0.05253	0.04738

MK392571.1_(reversed)	MK392572.1_(reversed)	KM670013.1	KM670012.1	KT378607.1	HQ845259.1

0.04343					
0.01851	0.02345				
0.02324	0.01867	0.00452			
0.03283	0.01867	0.02316	0.01845		
0.06853	0.05321	0.04754	0.05253	0.06266	

Table. Estimates of Evolutionary Divergence between Sequences

using the Maximum Composite Likelihood model [1]. This analysis involved 47 nucleotide sequences. All positions with less than 80% site coverage were eliminated, i.e., fewer than 20% alignment gaps, missing data, and ambiguous bases were allowed at any position (partial deletion option). There were a total of 222 positions in the final dataset. Evolutionary analyses were conducted in MEGA11 [2]

1. Tamura K., Nei M., and Kumar S. (2004). Prospects for inferring very large phylogenies by using the neighbor-joining method. Proceedings of the National Academy of Sciences (USA) 101:11030-11035.

2. Tamura K., Stecher G., and Kumar S. (2021). MEGA 11: Molecular Evolutionary Genetics Analysis Version 11. Molecular Biology and Evolution https://doi.org/10.1093/molbev/msab120.

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