

Figure S1. Chromosomal distribution according to the Minimum Allele Frequencies (MAF) of the SNPs in the two groups, NL-A and NL-B, of Nero Lucano pigs (0= non-defined chromosome position, 23=X chromosome, 24= Y chromosome, 25= XY ψ -autosomal region).

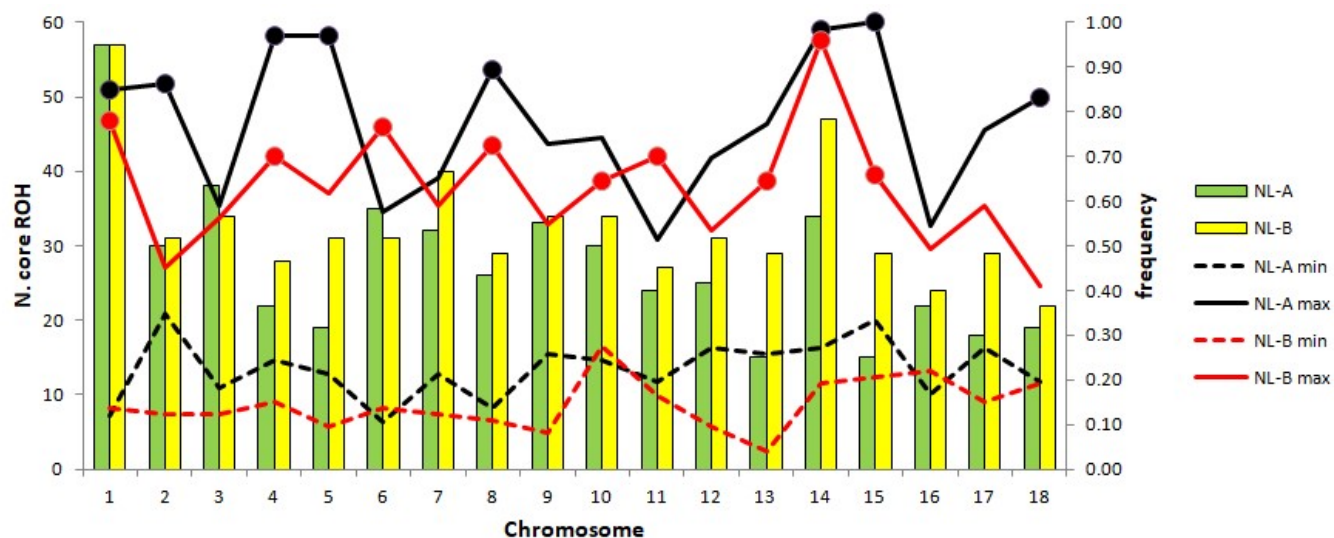


Figure S2. Chromosomal distribution of core ROH (bars), and minimum and maximum frequencies of core ROH (lines) in the two groups, NL-A and NL-B, of Nero Lucano pigs. Dots indicate ROH islands.

Table S1. Chromosomal distribution of the number of core ROH and ROH islands in the two groups, NL-A and NL-B, of Nero Lucano pigs.

SSC	NL-A		NL-B	
	Core ROH	ROHisl	Core ROH	ROHisl
1	57	1	57	1
2	30	1	31	-
3	38	-	34	-
4	22	6	28	6
5	19	3	31	-
6	35	-	31	1
7	32	-	40	-
8	26	1	29	4
9	33	-	34	-
10	30	-	34	2
11	24	-	27	2
12	25	-	31	-
13	15	-	29	1
14	34	2	47	4
15	15	3	29	3
16	22	-	24	-
17	18	-	29	-
18	19	2	22	-
Tot.	494	19	587	24

Table S2. Features of the ROH islands in the two groups, NL-A and NL-B, of Nero Lucano pigs (total overlaps are highlighted in yellow, partial overlaps are in red).

NL-A				
SSC	start	end	MB	NSNP
1	61286411	63123772	1.84	52
2	138165413	140762514	2.60	97
4	96094167	96682751	0.59	19
	103876353	108603753	4.73	163
	117536160	117687859	0.15	7
	118823811	121019333	2.20	81
	129082098	129135482	0.05	3
	129180275	130871839	1.69	54
5	64278949	64500585	0.22	9
	77860263	80009588	2.15	72
	96525916	98941102	2.42	50
8	135852700	136018155	0.17	4
14	1953336	3036987	1.08	35
	46176964	48062822	1.89	60
15	23234745	27699847	4.47	137
	28586239	30855591	2.27	68
	126097384	126642052	0.54	17
	3021252	3772854	0.75	29
18	4207793	4353165	0.15	4
Total			29.94	961

NL-B				
SSC	start	end	MB	NSNP
1	61286411	63012075	1.73	47
4	57618121	57886604	0.27	8
	96094167	96243742	0.15	8
	97190659	97485594	0.29	14
	99623881	100056015	0.43	16
	102060871	103826709	1.77	68
	114814756	116278694	1.46	36
6	129636266	131919402	2.28	64
8	21169328	21827236	0.66	17
	22797483	24709455	1.91	33
	133062402	135665981	2.60	87
	135852700	136018155	0.17	4
10	61554922	61604324	0.05	3
	62611588	63274310	0.66	32
11	3154821	4191013	1.04	25
	39449593	39578555	0.13	7
13	3608413	3850825	0.24	7
14	8461080	9394510	0.93	26
	10546428	10593029	0.05	3
	46176964	47999414	1.82	58
	124728188	125116457	0.39	16
15	17425392	18252281	0.83	24
	123632778	126013489	2.38	72
	126097384	126642052	0.54	17
Total			22.79	692

Table S3. Genes and QTLs mapped in the five ROH islands conserved between NL-A and NL-B pigs.

ROH location	Gene acronym or QTL ID	Gene name	Gene/QTL position
SSC1 61286411-63012075	MANEA	Mannosidase Endo-Alpha	62887689-62945586
SSC4 96094167-96243742	S100A5	S100 Calcium Binding Protein A5	96094167-96096870
	S100A6	S100 Calcium Binding Protein A6	96098264-96099686
	S100A7	S100 Calcium Binding Protein A7	96176718-96178694
	S100A8	S100 Calcium Binding Protein A8	96209670-96210603
	S100A12	S100 Calcium Binding Protein A12	96225691-96227030
	S100A9	S100 Calcium Binding Protein A9	96236114-96238989
	PPGRP-S	Porcine Peptidoglycan Recognition Protein 1	96243174-96247517
SSC8 135852700-136018155	HNRNPD	Heterogeneous Nuclear Ribonucleoprotein D	135852700-135862633
	RASGEF1B	RasGEF Domain Family Member 1B	135896022-136018155
SSC14 46176964-47999414	ZNRF3	Zinc And Ring Finger 3	46176964-46241327
	KREMEN1	Kringle Containing Transmembrane Protein 1	46254248-46323355
	EMID1	EMI Domain Containing 1	46358013-46402078
	RHBDD3	Rhomboid Domain Containing 3	46403146-46411217
	EWSR1	EWS RNA Binding Protein 1	46408636-46439357
	GAS2L1	Growth Arrest Specific 2 Like 1	46449767-46455278
	RASL10A	RAS Like Family 10 Member A	46455441-46457977
	APIB1	Adaptor Related Protein Complex 1 Subunit Beta 1	46469462-46520175
	NEFH	Neurofilament Heavy Chain	46559698-46568686
	THOC5	THO Complex Subunit 5	46578973-46624237
	NIPSNAP1	Nipsnap Homolog 1	46624368-46641453
	NF2	NF2, Moesin-Ezrin-Radixin Like (MERLIN) Tumor Suppressor	46653869-46726421
	CABP7	Calcium Binding Protein 7	46747654-46759312
	ZMAT5	Zinc Finger Matrin-Type 5	46758436-46783055
	UQCR10	Ubiquinol-Cytochrome C Reductase, Complex III Subunit X	46783340-46786140
	ASCC2	Activating Signal Cointegrator 1 Complex Subunit 2	46797307-46842479
	MTMR3	Myotubularin Related Protein 3	46874977-47022581
	QTL #64660		46888572
	QTL #64771		47005710
	LIF	LIF Interleukin 6 Family Cytokine	47221540-47239513
	OSM	Oncostatin M	47242767-47246836
	CASTOR1	Cytosolic Arginine Sensor For MTORC1 Subunit 1	47261905-47266729
	TBC1D10A	TBC1 Domain Family Member 10A	47269087-47301540
	SF3A1	Splicing Factor 3a Subunit 1	47312460-47335448
	CCDC157	Coiled-Coil Domain Containing 157	47335500-47351171
	RNF215	Ring Finger Protein 215	47351296-47357191
	SEC14L2	SEC14 Like Lipid Binding 2	47369663-47391335
	MTFP1	Mitochondrial Fission Process 1	47392578-47396115
	GAL3ST1	Galactose-3-O-Sulfotransferase 1	47455089-47476459
	PES1	Pescadillo Ribosomal Biogenesis Factor 1	47478378-47495983
	TCN2	Transcobalamin 2	47496245-47515966
	SLC35E4	Solute Carrier Family 35 Member E4	47518602-47550157
	DUSP18	Dual Specificity Phosphatase 18	47534152-47550953
	OSBP2	Oxysterol Binding Protein 2	47558088-47737994
	MORC2	MORC Family CW-Type Zinc Finger 2	47755264-47800432
	QTL #126628		47826895
	SMTN	Smoothelin	47879317-47902700
	QTL #173177		47895001
	SELENOM	Selenoprotein M	47902862-47905350
	INPP5J	Inositol Polyphosphate-5-Phosphatase J	47912921-47922632
	PLA2G3	Phospholipase A2 Group III	47923005-47928762
	RNF185	Ring Finger Protein 185	47946370-47979702
	QTL #37844		47971494
	LIMK2	LIM Domain Kinase 2	47983984-48039631
	QTL #22109		47999414
SSC15 126097384-126642052	FAM124B	Family With Sequence Similarity 124 Member B	126112445-126127658
	CUL3	Cullin 3	126191605-126287148
	DOCK10	Dedicator Of Cytokinesis 10	126435577-126642052

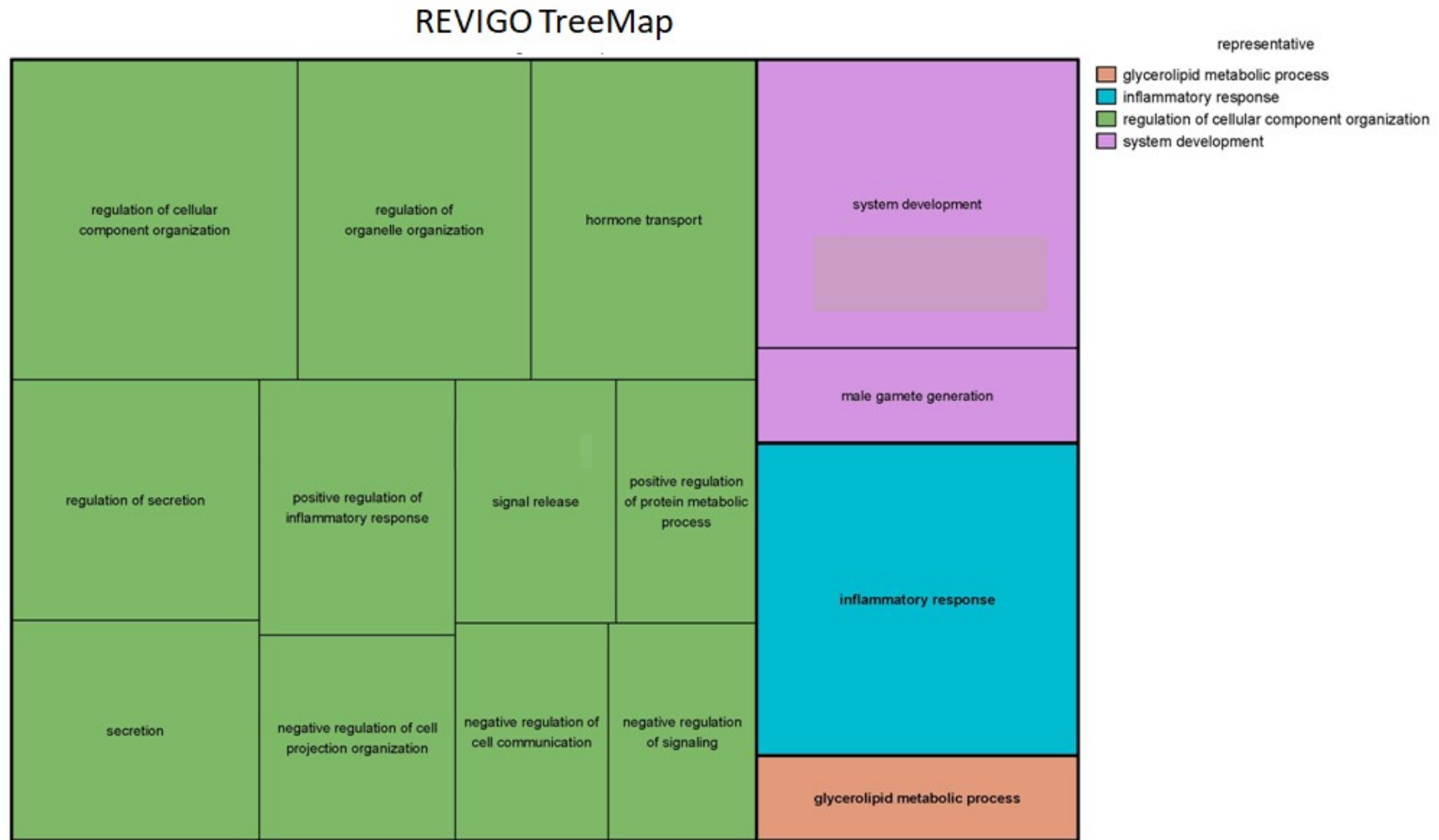


Figure S3. “Revigo Treemap” of Gene Ontology terms for genes located in the five ROH islands conserved between NL-A and NL-B pigs .

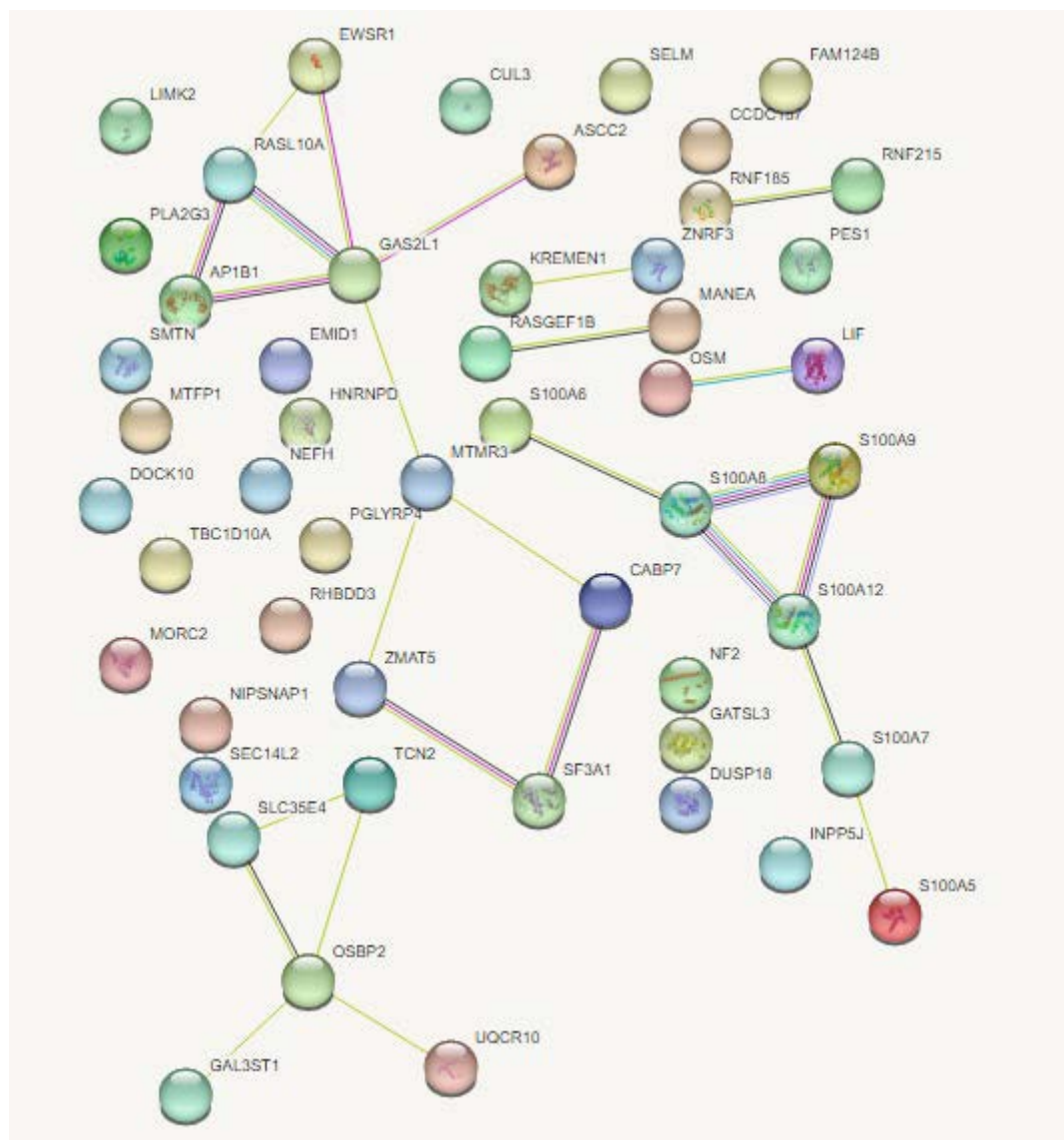


Figure S4. Network of protein–protein interaction (PPI) analysis carried out on genes located in the five ROH islands conserved between NL-A and NL-B pigs (nodes represent proteins).