

**Table S8.** 15 microsatellites and MHC II exon 2 outlier analyses results from Lositan and Bayescan. Analyses were performed independently considering: all the gradient and southern population, excluding all the German locations. Overall  $F_{ST}$  for the gradient excluding all population from Germany was 0.35.

Loci	Southern cluster		Gradient	
	Lositan	Bayescan	Lositan	Bayescan
<b>RtuP</b>	–	–	<i>Stabilizing selection</i>	<i>Stabilizing selection</i>
<b>WRA_160</b>	–	–	–	<i>Stabilizing selection</i>
<b>RCO8640</b>	<i>Diversifying selection</i>	–	<i>Diversifying selection</i>	<i>Diversifying selection</i>
<b>MHC</b>	<i>Diversifying selection</i>	–	<i>Diversifying selection</i>	–
<b>RtCa25</b>	–	<i>Stabilizing selection</i>	–	–
<b>RtCa18</b>	–	–	–	<i>Stabilizing selection</i>