

Table S1 COOLAIR RT-PCR primers

Species	Target	Round	Forward primer	Reverse primer
<i>A. lyrata</i>	FLC-1 COOLAIR proximal	PCR 1	GCACTGAGAGAGCCACGTTT	ATGTGGGAGCAGAAGCTGAG
		Nest 1	TGCAAAATAGGCCGTAGGCT	TCCGACAATCTTCCGGTGAC
		Nest 2	TAGGCCGTAGGCTTCTTCAC	GTGACTCTCCCGCTGCTTAT
	FLC-1 COOLAIR distal	PCR 1	ACTGAGAGAGCCACGTTTCT	ACCTTCTCCAAACGTGCGAA
		Nest 1	TGCAAAATAGGCCGTAGGCT	GTCGCTCTTCTCGTCTGCTC
		Nest 2	GCCGTAGGCTTCTTCACAGT	CTCCTCCGGCGATAAGTACG
<i>B. rapa</i>	FLC-3 COOLAIR proximal	PCR 1	TAGACGGTAGGCTTCTTCGC	CGCTATGTATTTGAATGGTTGGT
		Nest 1	CGGTAGGCTTCTTCGCCAT	CGGGAGCCGAAGCTGATAAT
		Nest 2	GAACACACAAGCACACTCACT	CACCTGGACAAATCTCCGACA
	FLC-3 COOLAIR distal	PCR 1	GGCCACGTCTCCGTTACAAA	GCCACTTGAACCGAACCTCT
		Nest 1	TAGACGGTAGGCTTCTTCGC	GGCACAGAGACCACCTTGGAG
		Nest 2	AGAACACACAAGCACACTCAC	CGCTTCTCGTTGTCTCCTCC
<i>C. rubella</i>	FLC COOLAIR proximal	PCR 1	ATTGTGCCACGCCTCCATT	TGTTTCCAAACCTTAGAACCCCT
		Nest 1	AGCAGAAAGGCTTCTTCACTGT	ACCTGCTGGACAAATCTCCG
		Nest 2	TCACTGTGAAGGAAACACAAAGA	CTCCGACAATCTTCCGGTGA
	FLC COOLAIR distal	PCR 1	CCACGCCTCCATTGCAAAAT	AATTAGGGCACAGGGGGCTC
		Nest 1	ACACACAACATGTGCATGCAA	CATCCGTGCTCTTCTCGTC
		Nest 2	TGCAAAAACCTCTCCCTCGGA	TCTACAGTTCTCCTCCGGT

Table S2 COOLAIR touchdown RT-PCR conditions

Round	Step	Conditions	Cycles
PCR 1	Initial denaturation	95 °C 2 min	1
	Denaturation	95 °C 30 s	3, 3, 3, 23 (35 total)
	Annealing	68 °C, 65 °C, 62 °C, 59 °C, 56 °C 30 s	
	Elongation	72 °C 1 min	
	Final extension	72 °C 5 min	1
Nest 1	Initial denaturation	95 °C 2 min	1
	Denaturation	95 °C 30 s	5, 5, 20 (30 total)
	Annealing	65 °C, 60 °C, 55 °C 30 s	
	Elongation	72 °C 1 min	
	Final extension	72 °C 5 min	1
Nest 2	Initial denaturation	95 °C 2 min	1
	Denaturation	95 °C 30 s	5, 5, 25 (35 total)
	Annealing	65 °C, 60 °C, 55 °C 30 s	
	Elongation	72 °C 1 min	
	Final extension	72 °C 5 min	1