

Table S1. Primers used for quantitative RT-qPCR for meiotic gene targets.

Gene	Accession number	Primers	Position (nucleotide)	Size (nucleotide)
<i>Dmc1</i>	NM_010059.3	5'-GGTGGCATTGAAAGTATGGCAA-3'	521-619	99
		5'-TGGAAGTTGAGCTGTCACACA-3'		
<i>Hormad1</i>	NM_001289534.1	5'-TTCCCTCAGGCGGTGC-3'	36-118	83
		5'-CAATGCACTCAGGGAAGCTG-3'		
<i>Hormad2</i>	NM_029458.1	5'-ACACAAATCCAAGGAACCTGA-3'	563-665	103
		5'-CTTGTGCTGCTGCTGTCAAA-3'		
<i>SCC3</i>	NM_009282.4	5'-CCAGTGTTCCAGGATGTCGAG-3'	797-906	110
		5'-AGTCACCACTGTCCTCATCAAAT-3'		
<i>Spo11</i>	NM_012046.2	5'-TAGTGCCACGGCTACTGCT-3'	640-748	109
		5'-GAGCCGCTGAAATGTTGCAT-3'		
<i>Mei1</i>	NM_028897.3	5'-CAGGACCAGAGAGTCTGCATC-3'	270-379	110
		5'-GTGAGCTGGACAAGGACTTCA-3'		
<i>Msh4</i>	NM_031870.3	5'-CCAGGCCGAGTACGGAAGG-3'	390-485	96
		5'-TGTTTTCAAATGATGAACCTGGC-3'		
<i>Prdm9</i>	NM_144809.3	5'-AGAGTGGACACCTAAGCAACA-3'	321-410	90
		5'-GGCATTCTAGATGATTCCTTCTGC-3'		
<i>Rad21L</i>	NM_001276400.1	5'-TGAATTGGAGTCATCAGGCAG-3'	1386-1495	110
		5'-ACTGCATTCCCATTTTGTGAA-3'		
<i>Rec8</i>	NM_020002.3	5'-TTTCAACAGTGCCAGTACCTT-3'	489-598	110
		5'-AAGCTAGGTAGGTCAGCCTC-3'		
<i>Sycp1</i>	NM_011516.2	5'-GCGGGAGGAGACTCCAATA-3'	211-317	107
		5'-GCAGGATCTTTATCAATGTTTTCCC-3'		
<i>Sycp2</i>	NM_177191.3	5'-GCCACAGCCTAAAGTGTCT-3'	89-179	91
		5'-TCTAACTGTTGGAGGTCTGGTC-3'		
<i>Sycp3</i>	NM_011517.2	5'-TTGCTGATGAAAAGGCTCCAGT-3'	261-357	97
		5'-TCCAGCATATTCTGTACTTCACCT-3'		
<i>Tardbp</i>	NM_145556.4	5'-GTCCGACTGGTGAAGGAAT-3'	490-586	97
		5'-CCATTTTCCTTTGTTATCTTTGGG-3'		

Table S2. Primers used for quantitative RT-qPCR for retinoic acid pathway targets. *Targets were obtained from Gely-Pernot *et al.* 2015 (Reference # 19)

Gene	Accession number	Primers	Position (nucleotide)	Size (nucleotide)
<i>RARgamma*</i>	NM_011244.4	5'-CTCGGGTCTATAAGCCATGC-3' 5'-CCCCATAGTGGTAGCCAGAA-3'	746-805	60
<i>RXRalpha*</i>	NM_001290481.1	5'-GATATCAAGCCGCCACTAGG-3' 5'-TTGCAGCCCTCACAAGTGT-3'	384-534	151
<i>RXRbeta*</i>	NM_001205	5'-GGGCTGCAAGGGTTTCTTCA-3' 5'-CTCCTGAACCGCCTCCCTTT-3'	186-348	163
<i>RBP4</i>	NM_001159487.1	5'-GAGAGTTTGGCTCCACCGAG-3' 5'-CCGGAGTCTGCCTCCTGAAC-3'	271-379	109
<i>Rdh11</i>	NM_021557.6	5'-GTGGTGCTGAGATGTTTCGGA-3' 5'-CCACTGGACAGCATTTCCTGA-3'	55-148	94
<i>Crpb1</i>	NM_013496.3	5'-GGACGCAAATGCAGGAGTTT-3' 5'-AGCTCTCGGGTCCAGTAAGT-3'	389-495	107
<i>Crpb2</i>	NM_007759.2	5'-GATGGAGAGCTGATCCTGACAA-3' 5'-GGAAGTCGTCTCAGGCAGTT-3'	497-602	106
<i>Rarres1</i>	NM_001164763.1	5'-AGCATCAGCATACCTGACAGT-3' 5'-ATACGTATGAGCTGCCGAG-3'	595-683	89
<i>Cyp26a1</i>	NM_007811.2	5'-CAGATGGTGCTTCAGCGGAG-3' 5'-ACATTATCCGCGCCCATCAC-3'	277-392	116
<i>RARbeta*</i>	NM_011243	5'-GCTGGGTGCTGTTTTCTAA-3' 5'-GAAACAGGCCTTCTCAGTGC-3'	1167-1282	135
<i>RXRgamma*</i>	NM_009107	5'-TGTGGTCAACAGTGTCAGCA-3' 5'-AGAAGCCTTTC AACCTTCA-3'	6-190	185
<i>Sall4a*</i>	NM_175303.4	5'-AGTGTCACCTGCCAATAGCC-3' 5'-TGCCAGGCACTTCAACTTT-3'	2560-2726	167
<i>Sall4b*</i>	NM_201395.3	5'-CTCGACCAGTCCAAGAAAGG-3' 5'-TGCCAGGCACTTCAACTTT-3'	1232-1394	163
<i>Stra6</i>	NM_001162476.1	5'-TCTAGGAGCTGAGGAGGTGC-3' 5'-GCAGAACCAGGAACGACAGT-3'	474-583	110