

Supplementary Table S1. PCR oligonucleotides and sequencing conditions for *PAH* gene.

Name of primer	Sequence (5'-3')*	Size of amplicon (bp)**
M13R-pUC-PAH-EX1F	CAGGAAACAGCTATGACGCGAGGTAAACCTTCAGCCC	300
M13F-PAH-EX1R	GTAAAACGACGGCCAGTTGACTTCCTGGATATTCTCATCAGC	
M13R-pUC-PAH-EX2F	CAGGAAACAGCTATGACTGTCCATGGAGGTTAACAGGAAT	303
M13F-PAH-EX2R	GTAAAACGACGGCCAGTTGAGCTCAAATTCAAATCTGCCTG	
M13F-PAH-EX3F	GTAAAACGACGGCCAGTGAACATACTGCCCCACCTCC	614
M13R-pUC-PAH-EX3R	CAGGAAACAGCTATGACGGTCCCCAACCTATGTCCAC	
M13F-PAH-EX4F	GTAAAACGACGGCCAGTTTGGGGGTATCTGGAAGCC	367
M13R-pUC-PAH-EX4R	CAGGAAACAGCTATGACTTTCCCAGCCCTCGTGTAAT	
M13F-PAH-EX5F	GTAAAACGACGGCCAGTAGGAGAGCTAAGTTTAACCGAGAC	417
M13R-pUC-PAH-EX5R	CAGGAAACAGCTATGACCATGTGTTATTAAAGGGAGGGTTT	
M13R-pUC-PAH-EX6F	CAGGAAACAGCTATGACATTCAGTGTAGCAAGTGATGGC	515
M13F-PAH-EX6R	GTAAAACGACGGCCAGTTGATAAACACAGTAGGGGCTG	
M13R-pUC-PAH-EX7F	CAGGAAACAGCTATGACATGTCCCTGGGCAGTTATGT	423
M13F-PAH-EX7R	GTAAAACGACGGCCAGTTGGTCTATCTACTTGGATGGAGCAA	
M13F-PAH-EX8F	GTAAAACGACGGCCAGTTCCCAACCTCTGCATATCACTT	412
M13R-pUC-PAH-EX8R	CAGGAAACAGCTATGACCCCATGCTTGATCTCCGAAA	
M13F-PAH-EX9F	GTAAAACGACGGCCAGTTCTGAAGGCATCTGGCCACC	260
M13R-pUC-PAH-EX9R	CAGGAAACAGCTATGACAGATAACCTGGCTTCCAGGGG	
M13R-pUC-PAH-EX10F	CAGGAAACAGCTATGACACTCACATGCCAATCCCCTC	380
M13F-PAH-EX10R	GTAAAACGACGGCCAGTTGGAGAATGAGTTCCAGGTTG	
M13R-pUC-PAH-EX11F	CAGGAAACAGCTATGACAGCATTTGGGCTGTGATGTAGA	508
M13F-PAH-EX11R	GTAAAACGACGGCCAGTTGTCTTGACTTGGTGGTTGC	
M13F-PAH-EX12F	GTAAAACGACGGCCAGTGCTTCCCAAGAAGACTCATTAAAA	432
M13R-pUC-PAH-EX12R	C	
	CAGGAAACAGCTATGACCATGGCTTACATGGAGGTGCTT	358
M13R-pUC-PAH-EX13F	CAGGAAACAGCTATGACAGCTCCTTGAAAGTTGGGGT	
M13F-PAH-EX13R	GTAAAACGACGGCCAGTTGTAATCATATCCTGTCATTTTCA	

*Universal sequencing primers are highlighted (M13F and M13R-pUC).

**Size without universal sequence.