

Table S1. Primer sequences to evaluate CpG sites in five different genes.
 *biotinylated primer. Y-location of CpGs (pyrimidine C or T); R-location of CpGs (purine A or G).

Gene	Primer	Sequence	CpG sites analyzed (in bold)
ELOVL2	Forward*	AGGGGAGTA GGGTAAGTG AGG	CCRTAAAC RT TAAAC CRCCRCRCRAA ACCRAC
	Reverse	AACAAAACC ATTTCCCC TAATAT	
	Sequencing	ACAACCAAT AAATATTCC TAAAACT	
NPTX2	Forward	GGTTGTGAG AAGGTAGGA GATTT	TYGYGGTGTAYGYGATTTTYGAGAYGATAGYGYGGTTATTGTTAGTAGYGAAGGYGTTTTTYGYGGAGYGTTTYGA
	Reverse*	ACCAACAAC CCCAACATC CC	
	Sequencing	AGAAGGTAG GAGATTTTT GTT	
FHL2	Forward	TGTTTTTAG GGTTTTGGG AGTATAG	AGTTATYGGGAGYGYGTYYYYYGGYGTGGGTTTTYGGGYGAGTTTTYGG
	Reverse*	ACACCTCCT AAAACCTTCT CCAATCTCC	
	Sequencing	GGTTTTGGG AGTATAGT	
KLF14	Forward	TTTGGTGTA GTTAGGGAA GGGGTATT	TGGYGT TTTGGTAGTAGGTGTGATAGATTTTTT TYGGGGYGT TTTGATTYGYGGYGGGGGYGGGGT TTGTTTTTAGGGTTTTTTTAG
	Reverse*	CACCAACAA CCTCTAATA AATTCTCTA	
	Sequencing	GGGAAGGGG TATTGG	
SCGN	Forward	AAGGAGTTT TTTTTAAAG TTGTTTAGG	TTYGYGTYGGTGT TTTGGTTTTYGTYGTTAATA TTATGGATAGTTTTYGGGAATYGATTTTGGGG YGTTTGGAYGTYGTTGGTTTTTGGTAG
	Reverse*	ACAACCCAA ATCCATAAC TTTTCTAC A	
	Sequencing	TTTTTTTAA AGTTGTTTA GGTTTT	