

**Table S2.** List of myxozoan species with information on primers used for PCR verification of stefin genes.

Myxozoan species	Host species	Host organ	Locality	Primer name and sequence	Amplified region (bp) from DNA/cDNA	GenBank Acc. nr.
<i>Sphaerospora molnari</i>	<i>Cyprinus carpio</i>	Blood, gills	Malá Outrata, Czech Republic	Sm1_5UTR_F: 5'-CGGACCGAGAGATTACGGTTA-3'	395/359	MT127416
				Sm1_5UTR_R: 5'-TTTTTAGGGACAAAAGTGAAAAGA-3'		
				Sm2_5UTR_F: 5'-GGATGGAAGATCAACGACCT-3'	524/450	MT127417
				Sm2_5UTR_R: 5'-GTTTTATGTGAATTTAGAACGAAAAGC-3'		
<i>Ceratonova shasta</i> (IIR genotype)	<i>Oncorhynchus mykiss</i>	Intestine, ascites	Willamette River, Oregon, USA	Cs_5UTR_F: 5'-CGCATGCCAATATATTATTATCCTA-3'	356/313	MT127418
				Cs_3UTR_R: 5'-TAGAAAGGAAATGTCATAGAAAACCTCT-3'		
<i>Myxidium lieberkuehni</i>	<i>Esox lucius</i>	Urinary bladder	Třeboň pond area, Czech Republic	MLStef1_1F: 5'-CGTAATTCTCGGCGTATATTGATA-3'	584/548	MT127419
				MLStef1_1R: 5'-TCAGATTTCTGTTACATTCATCCAT-3'		
				MLStef1_2F: 5'-GGCGTGTATTTGCTGATGAAATA-3'	384/352	MT127420
				MLStef1_2R: 5'-TATTAATCTATTTGGCTTGCCCTGG-3'		
				MLStef2_4F: 5'-GCGGCGTTAACAGATTATTAAGAAT-3'	432/401	MT127421
				MLStef2_4R: 5'-AGTTTTCTGCATAGTTTAAACAGCT-3'		
				MLStef3_1F: 5'-TTAAACGACAACCTACCTATCACGAC-3'	552/522	MT127422
				MLStef3_1R: 5'-TGTAGTTAAATCAATCAAAGAATAA-3'		
				MLStef4_1F: 5'-AGAAGACTGGAGATTAGCTAATAAA-3'	516/486	MT127423
				MLStef4_1R: 5'-CACGCACTAATATTTTCACATTTAT-3'		
<i>Nephrocystidium pickii</i>	<i>Esox lucius</i>	Kidney	Třeboň pond area, Czech Republic	MLlikeStef1F: 5'-TATAGTAGAGATGGTTCCATTTGCG-3'	409/374	MT127424
				MLlikeStef1R: 5'-CCTCGGCATAGATTGTAACTTAATGT-3'		
<i>Tetracapsuloides bryosalmonae</i>	<i>Oncorhynchus mykiss</i>	Trunk kidney	River Test, Hampshire, England	Tbryosteffout: 5'-TTCTTATATTTAATTGTAATGTTGGGAGG-3'	355/302	MT127425
				TbryostefRout: 5'-AGTGTTTCTTTCTACTCTAACTGA-3'		
<i>Buddenbrockia plumatellae</i>	<i>Leuciscus idus</i>	Kidney	Dyje river, Brno, Czech Republic	BuddStefF: 5'-ATGCTGGGAGGATTCAAGGAAGTTAAA-3'	300/236	MT127426
				BuddStefR: 5'-AGTCCACTTCCATGACATGGTAGTTTTTC-3'		
<i>Enteromyxum leei</i>	<i>Sparus aurata</i>	Posterior intestine	Western Mediterranean, Castellón, Spain	Eleei_Stef3out_F: 5'-CTAAACAAAATTTTCGTAGCGTCTCC-3'	NA/525	MW498387
				Eleei_Stef3out_R: 5'-AAGTAGTGAGTGAATTTATAGTTC-3'		
<i>Enteromyxum scophthalmi</i>	<i>Psetta maxima</i>	Anterior intestine	Galicia, NW Spain	Escop_Stef1out_F: 5'-AGAAACAAAAGAAGTTCTAATCCTCT-3'	543/408	MW498388
				Escop_Stef1out_R: 5'-TTGTGTGTTACGATTACTATTTTC-3'		

				Escop_Stef2out_F: 5'-AGTTTAAGATATGCTGAAGATCGCT-3'	486/427	MW498389
				Escop_Stef2out_R: 5'-TCATAAACAAAGATAAGAGGACTC-3'		
				Escop_Stef3out_F: 5'-ACTCAAGTATAGTAAGAACAAGATGCT-3'	463/400	MW498390
				Escop_Stef3out_R: 5'-TGAACGTGTTAATATTCAGTAAGCA-3'		

NA: not available; sequence amplified only from the cDNA template.