

Table S1. Name and origin of the EhV and *Emiliania huxleyi* strains utilized for PCR/sequencing of 6 genes involved in the sphingolipid biosynthesis.

Strains	Year	Area*	PCR amplification*					
			SPT	LAG1	Dsd1	LPP	Aco1	3-KSR
Virus (group)								
EhV-84 (I)	1999	EC	+	+	+	+	+	NA
EhV-86 (I)	1999	EC	+	+	+	+	+	NA
EhV-88 (I)	1999	EC	+	+	+	+	+	NA
EhV-V1 (I)	2003	RN	+	+	+	+	+	NA
EhV-V2 (I)	2003	RN	+	+	+	+	+	NA
EhV-163 (I)	2000	RN	+	+	+	+	+	NA
EhV-201 (II)	2001	EC	+	+	+	+	+	NA
EhV-202 (II)	2001	EC	+	+	+	+	+	NA
EhV-205 (II)	2001	EC	+	+	+	+	+	NA
EhV-207 (II)	2001	EC	+	+	+	+	+	NA
EhV-208 (II)	2001	EC	+	+	+	+	+	NA
<i>E. huxleyi</i>								
RCC1242 (CCMP1516)	1991	Pacific Ocean / Offshore Peru	+	+	+	+	+	+
RCC1215 (TW1)	1998	Mediterranean Sea (Spain)	+	+	+	+	+	+
RCC1259 (CCMP374)	1989	Gulf of Maine	+	+	+	+	+	+
RCC1255 (CCMP370)	1959	Oslo Fjord	+	-	+	+	+	+
RCC1235 (VF20)	2006	Mediterranean Sea (France)	+	+	+	+	+	-
RCC1253 (OS-2)	2006	Sea of Japan	+	+	+	+	-	-

* EC: Western English Channel (off the coast of Plymouth, UK); RN: Raunefjorden (Western Norway during a mesocosm experiment);. See [9] for more detail on the EhV isolates.

† + for positive, and – for negative PCR amplification.