

Table S2. Presence or absence of mating type/sex specifically coded genes in volvocine *MT* loci. Blanks (-) indicate absence. *V. carteri MTD1* is considered to be a pseudogene (Ferris et al. 2010).

query/gene name	Volvox	Chlamydomonas	Gonium
<i>FSI1f</i>	Female	-	-
<i>HMG1f</i>	Female	-	-
<i>MTF0821</i>	Female	-	-
<i>MTF0991</i>	Female	-	-
<i>MTF2030</i>	Female	-	-
<i>MTM0097</i>	Male	-	-
<i>MTM0441</i>	Male	-	-
<i>MTM0564</i>	Male	-	-
<i>MTM0665</i>	Male	-	-
<i>MTM0761</i>	Male	-	-
<i>MTM0832</i>	Male	-	-
<i>MTM0897</i>	Male	-	-
<i>MTM0946</i>	Male	-	-
<i>MID</i>	Male	<i>minus</i>	<i>minus</i>
<i>MTD1</i>	Male (pseudo)	<i>minus</i>	<i>minus</i>
<i>FUS1</i>	-	<i>plus</i>	<i>plus</i>
<i>MTA1</i>	-	<i>plus</i>	-
<i>EZY2</i>	-	<i>plus</i>	-