

**Table S1 Sample origins and clone names**

Species	Lab name	Sample name	Origin	Note
<i>S. viminalis</i>	V18	78183	Skåne, Sweden	
<i>S. viminalis</i>	V19	78195	Western Sweden	
<i>S. viminalis</i>	V52	81084	Southeast Sweden	
<i>S. viminalis</i>	V8	78054	Western Sweden	
<i>S. viminalis</i>	V14	78115	Southeast Sweden	
<i>S. viminalis</i>	V32	80019	North of malardalen Sweden	
<i>S. viminalis</i>	V40	80069	Denmark	
<i>S. viminalis</i>	V56	81102	Netherland	
<i>S. viminalis</i>	V59	82008	Skåne, Sweden	
<i>S. viminalis</i>	V69	82046	Ireland	
<i>S. viminalis</i>	V76	Bel34	Belgium	
<i>S. viminalis</i>	V85	Bel74	Belgium	
<i>S. viminalis</i>	V94	D161	Germany	
<i>S. viminalis</i>	V100	D252	Germany	
<i>S. viminalis</i>	V117	Linköp2A	Sweden	
<i>S. viminalis</i>	V119	P63	Poland	
<i>S. viminalis</i>	V121	P106	Poland	
<i>S. viminalis</i>	V126	P182	Poland	
<i>S. viminalis</i>	V136	skarp4	Sweden	
<i>S. viminalis</i>	V140	T19	Germany	
<i>S. viminalis</i>	V142	T76	Germany	
<i>S. viminalis</i>	V145	T114	Germany	
<i>S. viminalis</i>	V147	Öland7	Öland, Sweden	
<i>S. viminalis</i>	V208	90040	Sweden	
<i>S. schwerinii</i>	S1	96-1-40	parents: SW910260 + SW910259 collected at river Ingoda at the bridge Tchita	F1 cross
<i>S. schwerinii</i>	S2	96-2-18	parents: SW910261 + SW910267 collected at river Ingoda at the bridge Tchita	F1 cross

<i>S. schwerinii</i>	S3	96-5-6	parents: SW910282 + SW910284 collected at river Mongoi, village Mohov-Kondin	F1 cross
<i>S. schwerinii</i>	S4	96-6-15	parents: SW910287 + SW910285 collected at river Mongoi, village Mohov Kondin	F1 cross
<i>S. schwerinii</i>	S5	96-10-37	parents: SW910301+ SW910300 collected at river Vitim village Romanovka	F1 cross
<i>S. schwerinii</i>	S6	96-11-16	parents: SW910312 + SW910317 collected at the rivers Vitim & Bisjaga, village Bodaibo	F1 cross
<i>S. schwerinii</i>	S7	96-12-3	parents: SW910314 + SW910316 collected at the rivers Vitim & Bisjaga, village Bodaibo	F1 cross
<i>S. schwerinii</i>	S8	96-13-31	parents: SW910323 + SW910324 collected at the rivers Vitim & Bisjaga, village Bodaibo	F1 cross
<i>S. schwerinii</i>	S9	96-14-40	parents: SW910326 + SW910327 collected at river Tchitinka, village Tchita	F1 cross
<i>S. schwerinii</i>	S10	96-16-31	parents: SW910335 + SW910334 collected at river Tchitinka, village Tchita	F1 cross
<i>S. schwerinii</i>	S11	96-19-14	parents: SW910340 + SW910341 collected at rivers Shilka & Nertcha near to Nerchinsk	F1 cross
<i>S. schwerinii</i>	S12	96-20-23	parents: SW910343 + SW910344 collected at rivers Shilka & Nertcha near to Nerchinsk	F1 cross
<i>S. schwerinii</i>	S13	96-21-20	parents: SW910345 + SW910348 collected at rivers Shilka & Nertcha near to Nerchinsk	F1 cross
<i>S. schwerinii</i>	S14	96-22-24	parents: SW910349 + SW910350 collected at rivers Shilka & Nertcha near to Nerchinsk	F1 cross
<i>S. schwerinii</i>	S15	96-24-11	parents: SW910356 + SW910352 collected at rivers Shilka & Nertcha near to Nerchinsk	F1 cross
<i>S. schwerinii</i>	S16	96-25-31	parents: SW910368 + SW910369 collected at river Amur near Pokrova	F1 cross
<i>S. schwerinii</i>	S17	96-26-19	parents: SW910371+ SW910372 collected at river Amur near Pokrova	F1 cross
<i>S. schwerinii</i>	S18	SW911310	collected at Vitim o Bisjaga	
<i>S. schwerinii</i>	S19	SW911295	collected at river Vitim	
<i>S. schwerinii</i>	S20	SW911273	collected at river Mongoi	
<i>S. schwerinii</i>	S21	SW911329	collected at river Tchitinka	
<i>S. schwerinii</i>	S22	SW911283	collected at river Mongoi	
<i>S. schwerinii</i>	S23	SW911347	collected at rivers Shilka o Nertcha	
<i>S. schwerinii</i>	S24	SW911358	collected at river Amur	