Table S1. Oligonucleotide ISSR primers used for diversity analysis in common reed sites and populations, primer annealing temperature, number of scored and polymorphic bands, percentage of polymorphic loci identified per primer and scored DNA fragments size range

ISSR primer	Sequence	Annealing temperature	All fragments scored	Polymorphic fragments	P, %	Size of DNA fragments (bp)
ISSR-B	$(AG)_8CG$	51	25	23	92	320-1300
ISSR I-50a	$CCA(GTC)_4$	47	33	31	94	440-1750
ISSR I-18	$GTGC(TC)_7$	51	26	25	96	490-1480
ISSR-E	$(CCA)_5$	47	21	20	95	460-1300
UBC 881	$(GGGT)_3GTG$	49	28	26	93	310-1600
UBC 817	$(CA)_8A$	45	28	26	93	340-1500
UBC 825	$(AC)_8T$	45	33	31	94	360-2000
sum			194	182	94	
average			27.71	26		

P – percentage of polymorphic loci.

Table S2. Water hydro-chemical and physical characteristics of common reed sampling sites

Site	pH	DO, mg/l	BOD_7, mg/l O_2	NH_4-N, mg/l	NO_2-N, mg/l	NO_3-N, mg/l	Mineral N, mg/l	Total N, mg/l	PO_4-P, mg/l	Total P, mg/l	SEC, µS/cm
VR2	7.717	8,992	3.417	0.193	0.013	1.503	1.709	2.575	0.029	0.083	460.333
MR1	7.973	10,389	1.938	0.067	0.010	0.860	0.938	1.273	0.044	0.079	405.125
MR2	7.973	10,389	1.938	0.067	0.010	0.860	0.938	1.273	0.044	0.079	405.125
MR3	7.973	10,389	1.938	0.067	0.010	0.860	0.938	1.273	0.044	0.079	405.125
MR4	7.982	9,844	2.064	0.078	0.009	0.847	0.925	1.523	0.039	0.089	434.194
MR5	7.982	9,844	2.064	0.078	0.009	0.847	0.925	1.523	0.039	0.089	434.194
MR6	8.201	10,941	2.175	0.062	0.009	0.866	0.930	1.609	0.041	0.089	425.676
SK	8.033	11,056	1.833	0.056	0.003	0.154	0.207	0.411	0.050	0.088	273.250
GR1	7.675	9,925	3.900	0.183	0.006	0.388	0.576	1.250	0.030	0.113	286.000
GR2	8.100	11,250	1.825	0.068	0.005	0.378	0.450	0.863	0.057	0.096	271.125
VS1	7.713	8,708	2.383	0.112	0.015	1.419	1.546	2.170	0.033	0.100	490.667
VS2	8.050	9,763	2.388	0.082	0.009	0.970	1.060	1.800	0.033	0.081	473.875
SL1	7.773	8,959	2.825	0.154	0.028	1.638	1.820	2.409	0.071	0.132	477.667
SL2	8.025	9,224	2.088	0.042	0.011	1.073	1.125	1.324	0.039	0.106	420.000
SL3	8.025	9,224	2.088	0.042	0.011	1.073	1.125	1.324	0.039	0.106	420.000
SL4	8.025	9,224	2.088	0.042	0.011	1.073	1.125	1.324	0.039	0.106	420.000
BR	7.298	8,695	2.725	0.046	0.016	1.901	1.963	2.493	0.035	0.067	391.500
VN2	8.020	11,120	2.000	0.050	0.009	0.646	0.704	1.017	0.016	0.025	484.750
NV1	7.700	9,063	1.688	0.083	0.014	1.523	1.621	2.578	0.013	0.032	614.750
NV2	7.700	9,063	1.688	0.083	0.014	1.523	1.621	2.578	0.013	0.032	614.750
NV3	7.700	9,063	1.688	0.083	0.014	1.523	1.621	2.578	0.013	0.032	614.750
NV4	7.799	8,359	1.846	0.057	0.021	2.286	2.364	3.579	0.047	0.063	688.810
PN1	7.892	9,592	2.350	0.048	0.010	1.641	1.699	2.615	0.018	0.054	667.167
PN2	7.733	7,450	3.513	0.361	0.024	1.439	1.824	3.238	0.076	0.154	660.500
SR1	8.073	9,085	1.988	0.056	0.014	1.022	1.093	1.743	0.025	0.057	532.125
SR2	7.918	9,278	2.442	0.051	0.023	1.027	1.101	1.541	0.053	0.084	487.875
ST2	8.013	11,486	2.120	0.043	0.010	1.203	1.257	1.897	0.022	0.085	486.917
SP1	8.036	9,079	3.320	0.085	0.010	0.375	0.487	1.005	0.026	0.059	489.912
SP2	7.960	8,045	3.432	0.254	0.022	0.558	0.834	1.552	0.068	0.109	517.625
SP3	7.960	8,045	3.432	0.254	0.022	0.558	0.834	1.552	0.068	0.109	517.625
KN1	7.924	9,987	1.639	0.028	0.004	0.174	0.209	0.489	0.017	0.041	352.729
KN2	7.924	9,987	1.639	0.028	0.004	0.174	0.209	0.489	0.017	0.041	352.729

DO – dissolved oxygen, BOD_7 – biochemical oxygen demand, SEC – specific electrical conductivity.