

**Supplementary Table S1.** Single Nucleotide Polymorphism. References: Position in bp; Localization, coding/ non-coding regions.

	Gene	Position (bp)	Localization	Substitution	Type	Aminoacid change	
	<i>P. flexuosa</i>	<i>sHSP</i>	99	Coding	G/T	synonymous	TCG (Ser)
<i>Hak3p</i>		130	Coding	C/T	synonymous	GAC (Asp)	GAT (Asp)
		164	Coding	G/C	non-synonymous	GAT (Asp)	CAT (His)
		182	Coding	T/C	synonymous	TTA (Leu)	CTA (Leu)
		220	Coding	A/R	synonymous	ACA (Thr)	ACG (Thr)
		<i>ERD 15</i>	41	Coding	C/T	synonymous	GCC (Ala)
45			Coding	C/G	non-synonymous	CAT (His)	GAT (Asp)
92			Coding	T/C	synonymous	AAT (Asn)	AAC (Asn)
110			Coding	T/C	synonymous	GAT (Asp)	GAC (Asp)
166			Coding	C/Y	non-synonymous	ACA (Thr)	ATA (Ile)
<i>Rab7 GTP</i>		7	non-coding	G/A			
		11	non-coding	C/G			
		12	non-coding	G/A			
		26	non-coding	G/T			
		91	Coding	C/T	synonymous	CTG (Leu)	TTG (Leu)
		128	non-coding	A/T			
		135	non-coding	A/C			
		145	non-coding	G/T			
		149	non-coding	A/G			
		200	non-coding	G/A			
		229	Coding	T/C	synonymous	AGT (Ser)	AGC (Ser)
		235	Coding	G/A	synonymous	CAG (Gln)	CAA (Gln)
<i>PHD finger</i>		63	non-coding	G/T			
		158	non-coding	T/C			
		167	non-coding	A/G			
		170	non-coding	G/C			
		264	non-coding	G/A			
		275	non-coding	C/T			
	591	non-coding	A/G				
<i>ADH I</i>	26	non-coding	C/G				
	43	non-coding	C/G				

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		86	non-coding	T/C			
		186	Coding	T/C	synonymous	TTC (Phe)	TTT (Phe)
		219	non-coding	A/G			
		228	non-coding	A/C			
		229	non-coding	C/T			
		249	non-coding	T/C			
	<i>ADH II</i>	13	non-coding	A/G			
		187	Coding	A/G	non-synonymous	AAC (Asn)	AGC (Ser)
		245	Coding	C/T	synonymous	ACC (Thr)	ACT (Thr)
		370	non-coding	C/T			

	Gene	Position	Location	Substitution	Type	Aminoacid change	
<i>P. chilensis</i>	<i>sHSP</i>	109	Coding	A/G	non-synonymous	ATC (Ile)	GTC (Val)
	<i>Hak3P</i>	70	Coding	G/A	synonymous	AGG (Arg)	AGA (Arg)
		130	Coding	T/C	Synonymous	GAT (Asp)	GAC (Asp)
		176	Coding	A/R	Synonymous	AAA (Lys)	AAG (Lys)
		<i>ERD 15</i>	45	Coding	G/C	Synonymous	GAT (Asp)
	59		Coding	T/C	Synonymous	GAT (Asp)	GAC (Asp)
	92		Coding	T/C	Synonymous	AAT (Asn)	AAC (Asn)
	191		Coding	G/A	Synonymous	CTG (Leu)	CTA (Leu)
	<i>Rab 7 GTP</i>	11	non-coding	C/G			
		91	Coding	T/C	Synonymous	TTG (Leu)	CTG (Leu)
		128	non-coding	T/A			
		145	non-coding	G/T			
		175	non-coding	A/G			
		229	Coding	T/C	Synonymous	AGT (Ser)	AGC (Ser)
		235	Coding	G/A	Synonymous	CAG (Gln)	CAA (Gln)
		<i>PHD finger</i>	264	non-coding	G/A		
	396		non-coding	T/C			
	525		Coding	T/C	Synonymous	CCT (Pro)	CCC (Pro)
	580		non-coding	G/A			

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		21	non-coding	T/C			
	<i>ADH II</i>	56	Coding	T/C	Synonymous	ACT (Thr)	ACC (Thr)
		245	Coding	C/T	Synonymous	ACC (Thr)	ACT (Thr)
		266	Coding	T/C	Synonymous	ACT (Thr)	ACC (Thr)
		269	Coding	T/G	Synonymous	GTT (val)	GTG (Val)
		302	Coding	T/C	Synonymous	CCT (Pro)	CCC (Pro)

	Gene	Position	Location	Substitution	Type	Aminoacid change	
Hybrids	<i>sHSP</i>	109	Coding	A/C	non-synonymous	ATC (Ile)	CTC (Leu)
	<i>Hak3p</i>	70	Coding	G/A	Synonymous	AGG (Arg)	AGA (Arg)
		130	Coding	T/C	Synonymous	GAT (Asp)	GAC (Asp)
		220	Coding	A/R	Synonymous	ACA (Thr)	ACG (Thr)
		235	Coding	C/T	Synonymous	TTC (phe)	TTT (Phe)
	<i>ERD 15</i>	41	Coding	T/Y	Synonymous	GCT (Ala)	GCC (Ala)
		45	Coding	G/C	non-synonymous	GAT (Asp)	CAT (His)
		92	Coding	T/Y	Synonymous	AAT (Asn)	AAC (Asn)
		105	Coding	C/T	non-synonymous	CGT (Arg)	TGT (Cys)
		110	Coding	C/T	Synonymous	GAC (Asp)	GAT (Asp)
		166	Coding	C/Y	Synonymous	ACA (Thr)	ATA (Ile)
	<i>Rab7 GTP</i>	11	non-coding	C/G			
		26	non-coding	G/T			
		36	non-coding	C/T			
		91	Coding	C/T	Synonymous	TTG (Leu)	CTG (Leu)
		128	non-coding	A/T			
		145	non-coding	G/T			
		200	non-coding	G/A			
		229	Coding	T/C	Synonymous	AGT (Ser)	AGC (Ser)
		232	Coding	T/C	Synonymous	AAT (Asn)	AAC (Asn)
235		Coding	G/A	Synonymous	CAG (Gln)	CAA (Gln)	

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	<i>PHD finger</i>	39	non-coding	G/A				
		63	non-coding	G/T				
		167	non-coding	A/G				
		257	non-coding	C/T				
		359	non-coding	G/A				
		398	non-coding	G/T				
		421	non-coding	C/T				
		495	non-coding	C/G				
		592	non-coding	G/A				
		597	non-coding	A/T				
		598	non-coding	T/G				
		<i>ADH I</i>	24	non-coding	T/C			
			86	non-coding	C/T			
	135		Coding	G/A	Synonymous	GTG (Val)	GTA (Val)	
	141		Coding	C/T	Synonymous	CGC (Arg)	CGT (Arg)	
	156		Coding	G/A	Synonymous	ACG (Thr)	ACA (Thr)	
	186		Coding	C/T	Synonymous	TTC (phe)	TTT (Phe)	
	195		Coding	T/C	Synonymous	GTT (val)	GTC (Val)	
	229		non-coding	T/C				
	249		non-coding	C/T				
	<i>ADH II</i>	21	Coding	T/C	non-coding			
		56	Coding	T/C	Synonymous	ACC (Thr)	ACT (Thr)	
		187	Coding	A/G	non-synonymous	AAC (Asn)	AGC (Ser)	
		245	Coding	T/C	Synonymous	ACT (Thr)	ACC (Thr)	
		254	Coding	C/T	Synonymous	TTC (phe)	TTT (Phe)	
		266	Coding	T/C	Synonymous	ACC (Thr)	ACT (Thr)	
		269	Coding	T/G	Synonymous	GTG (Val)	GTT (Val)	
		302	Coding	T/C	Synonymous	CCC (Pro)	CCT (Pro)	
		370	Coding	C/T	non-coding			

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