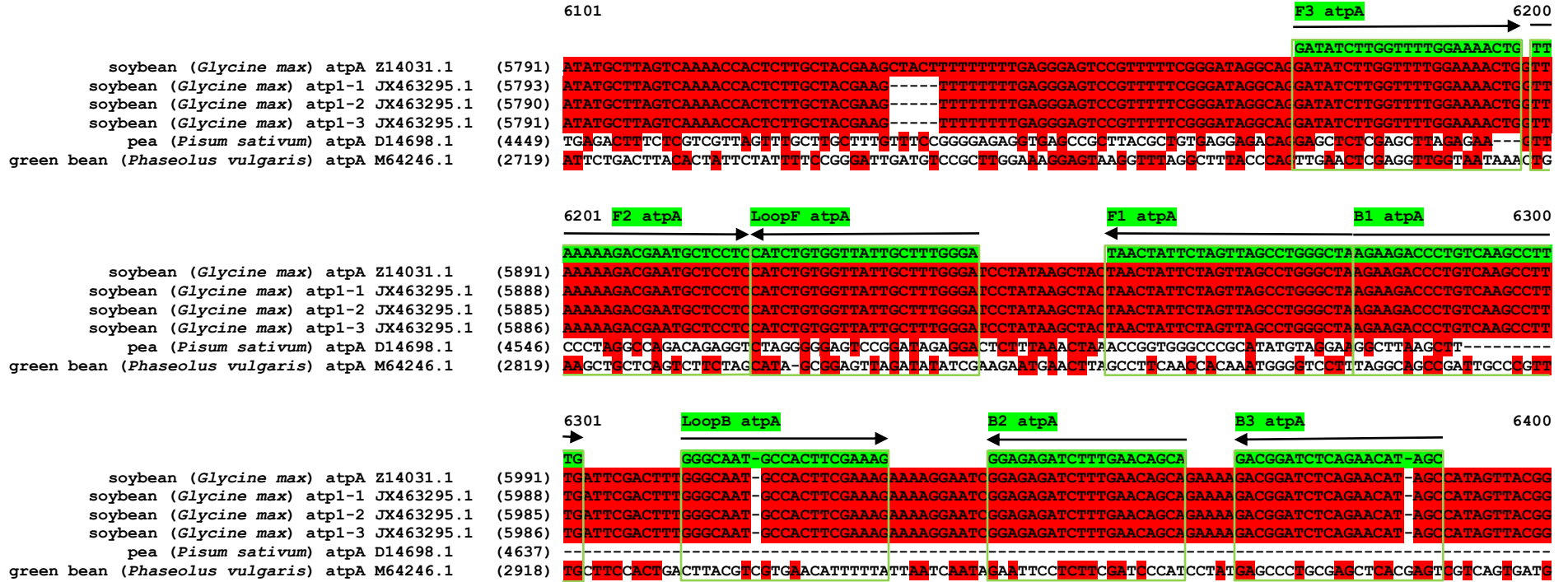


Figure S1. Sequence alignment of the atpA gene. Red: homologous nucleotides in comparison with the reference sequence of soybean (*Glycine max*, GenBank acc. No. Z14031.1); green: newly designed LAMP primers targeting the atpA gene of soybean (*Glycine max*, GenBank acc. No. Z14031.1)



			LoopF ITS1		F1 ITS1		B1 ITS1	
			←		←		→	
			CCAC		CCC GG-CC-----TCCTCGTCC		GC---GACA--AACACAAACCCC	
			CCAC-----GGCG				CGCTTCGTGCGCCAAG	
soybean (<i>Glycine max</i>)	ITS	FJ609734.1 (111)	CCAC-----GGCG	CCCCG	CC-----TCCTCGTCC	GC-----GACA	AACACAAACCCC	GGCGCTTCGTGCGCCAAGGA
soybean (<i>Glycine max</i>)	ITS	AJ009787.1 (85)	CCAC-----GGCG	CCCCG	CC-----TCCTCGTCC	GC-----GACA	AACACAAACCCC	GGCGCTTCGTGCGCCAAGGA
soybean (<i>Glycine max</i>)	ITS	AJ011337.1 (85)	CCAC-----GGCG	CCCCG	CC-----TCCTCGTCC	GC-----GACA	AACACAAACCCC	GGCGCTTCGTGCGCCAAGGA
soybean (<i>Glycine max</i>)	ITS	EF517917.1 (78)	CCAC-----GGCG	CCCCG	CC-----TCCTCGTCC	GC-----GACA	AACACAAACCCC	GGCGCTTCGTGCGCCAAGGA
soybean (<i>Glycine max</i>)	ITS	L36612.1 (91)	CCAC-----GGCG	CCCCG	CC-----TCCTCGTCC	GC-----GACA	AACACAAACCCC	GGCGCTTCGTGCGCCAAGGA
soybean (<i>Glycine max</i>)	ITS	FJ980442.1 (95)	CCAC-----GGCG	CCCCG	CC-----TCCTCGTCC	GC-----GACA	AACACAAACCCC	GGCGCTTCGTGCGCCAAGGA
soybean (<i>Glycine max</i>)	ITS	U60551.1 (85)	CCAC-----GGCG	CCCCG	CC-----TCCTCGTCC	GC-----GACA	AACACAAACCCC	GGCGCTTCGTGCGCCAAGGA
buckwheat (<i>Fagopyrum esculentum</i>)	ITS	EF653685.1 (92)	-----GGTCC	CCCCG	CC-----AGGGC	GC-----GACA	AACACAAACCCC	GGCGCTTCGTGCGCCAAGGA
barley (<i>Hordeum vulgare</i>)	ITS	FJ593180.1 (96)	-----TTTGG	CCCCG	CC-----AGGGC	GC-----GACA	AACACAAACCCC	GGCGCTTCGTGCGCCAAGGA
wheat (<i>Triticum aestivum</i>)	ITS	AF440679.1 (64)	-----GCTGG	CCCCG	CC-----AGGGC	GC-----GACA	AACACAAACCCC	GGCGCTTCGTGCGCCAAGGA
green bean (<i>Phaseolus vulgaris</i>)	ITS	FJ172178.1 (122)	GGCAGCGA-AGTTT	CCCCG	CC-----AGGGC	GC-----GACA	AACACAAACCCC	GGCGCTTCGTGCGCCAAGGA
green bean (<i>Phaseolus vulgaris</i>)	ITS	JQ974390.1 (125)	GGCAGCGA-AGTTT	CCCCG	CC-----AGGGC	GC-----GACA	AACACAAACCCC	GGCGCTTCGTGCGCCAAGGA
mung bean (<i>Vigna radiata</i>)	ITS	EU727150.1 (75)	-----GCTGG	CCCCG	CC-----AGGGC	GC-----GACA	AACACAAACCCC	GGCGCTTCGTGCGCCAAGGA
mung bean (<i>Vigna radiata</i>)	ITS	GQ275377.1 (127)	GGCAGCGA-AGTTT	CCCCG	CC-----AGGGC	GC-----GACA	AACACAAACCCC	GGCGCTTCGTGCGCCAAGGA
peanut (<i>Arachis hypogaea</i>)	ITS	AF156675.2 (297)	-----GCTGG	CCCCG	CC-----AGGGC	GC-----GACA	AACACAAACCCC	GGCGCTTCGTGCGCCAAGGA
peanut (<i>Arachis hypogaea</i>)	ITS	AY615267.1 (72)	-----GCTGG	CCCCG	CC-----AGGGC	GC-----GACA	AACACAAACCCC	GGCGCTTCGTGCGCCAAGGA
hazelnut (<i>Corylus avellana</i>)	ITS	HQ442260.1 (123)	CCCG-----TCC	CCCCG	CC-----AGGGC	GC-----GACA	AACACAAACCCC	GGCGCTTCGTGCGCCAAGGA
hazelnut (<i>Corylus avellana</i>)	ITS	HQ442261.1 (123)	CCCG-----TCC	CCCCG	CC-----AGGGC	GC-----GACA	AACACAAACCCC	GGCGCTTCGTGCGCCAAGGA
broad bean (<i>Vicia faba</i>)	ITS	FJ212318.1 (123)	CACCTCGG-CTGAC	CCCCG	CC-----AGGGC	GC-----GACA	AACACAAACCCC	GGCGCTTCGTGCGCCAAGGA
broad bean (<i>Vicia faba</i>)	ITS	KJ787180.1 (105)	CACCTCGG-CTGAC	CCCCG	CC-----AGGGC	GC-----GACA	AACACAAACCCC	GGCGCTTCGTGCGCCAAGGA
pea (<i>Pisum sativum</i>)	ITS	AY143458.1 (96)	CACCTCGG-CTGAC	CCCCG	CC-----AGGGC	GC-----GACA	AACACAAACCCC	GGCGCTTCGTGCGCCAAGGA
pea (<i>Pisum sativum</i>)	ITS	AY143486.1 (96)	CACCTCGG-CTGAC	CCCCG	CC-----AGGGC	GC-----GACA	AACACAAACCCC	GGCGCTTCGTGCGCCAAGGA
lentil (<i>Lens culinaris</i>)	ITS	AF432169.1 (69)	CACCTCGG-CTTCT	CCCCG	CC-----AGGGC	GC-----GACA	AACACAAACCCC	GGCGCTTCGTGCGCCAAGGA
lentil (<i>Lens culinaris</i>)	ITS	EU224452.1 (76)	CACCTCGG-CTTCT	CCCCG	CC-----AGGGC	GC-----GACA	AACACAAACCCC	GGCGCTTCGTGCGCCAAGGA
chickpea (<i>Cicer arietinum</i>)	ITS	AY594660.1 (207)	CACCTCGG-CCCAAT	CCCCG	CC-----AGGGC	GC-----GACA	AACACAAACCCC	GGCGCTTCGTGCGCCAAGGA
chickpea (<i>Cicer arietinum</i>)	ITS	DQ312219.1 (105)	CACCTCGG-CCCAAT	CCCCG	CC-----AGGGC	GC-----GACA	AACACAAACCCC	GGCGCTTCGTGCGCCAAGGA
chickpea (<i>Cicer arietinum</i>)	ITS	U56003.1 (43)	CACCTCGG-CCCAAT	CCCCG	CC-----AGGGC	GC-----GACA	AACACAAACCCC	GGCGCTTCGTGCGCCAAGGA
peanut (<i>Arachis hypogaea</i>)	ITS1	AJ555556.1 (69)	C-C-----GTT	CCCCG	CC-----AGGGC	GC-----GACA	AACACAAACCCC	GGCGCTTCGTGCGCCAAGGA
chickpea (<i>Cicer arietinum</i>)	ITS2	U56004.1 (1)	-----	CCCCG	CC-----AGGGC	GC-----GACA	AACACAAACCCC	GGCGCTTCGTGCGCCAAGGA
Andean lupine (<i>Lupinus mutabilis</i>)	ITS2	Z72197.1 (1)	-----	CCCCG	CC-----AGGGC	GC-----GACA	AACACAAACCCC	GGCGCTTCGTGCGCCAAGGA
blue lupine (<i>L. angustifolius</i>)	ITS1	Z72202.1 (70)	CACCTCGG-TCCCT	CCCCG	CC-----AGGGC	GC-----GACA	AACACAAACCCC	GGCGCTTCGTGCGCCAAGGA
blue lupine (<i>L. angustifolius</i>)	ITS2	Z72203.1 (1)	-----	CCCCG	CC-----AGGGC	GC-----GACA	AACACAAACCCC	GGCGCTTCGTGCGCCAAGGA
Andean lupine (<i>Lupinus mutabilis</i>)	ITS1	Z72196.1 (70)	CACCTCGG-CCCTC	CCCCG	CC-----AGGGC	GC-----GACA	AACACAAACCCC	GGCGCTTCGTGCGCCAAGGA
yellow lupine (<i>Lupinus luteus</i>)	ITS	AF007478.1 (70)	CACCTCGG-CCCTC	CCCCG	CC-----AGGGC	GC-----GACA	AACACAAACCCC	GGCGCTTCGTGCGCCAAGGA
yellow lupine (<i>Lupinus luteus</i>)	ITS1	Z72206.1 (70)	CACCTCGG-CCCTC	CCCCG	CC-----AGGGC	GC-----GACA	AACACAAACCCC	GGCGCTTCGTGCGCCAAGGA
yellow lupine (<i>Lupinus luteus</i>)	ITS	DQ524249.1 (70)	CACCTCGG-CCCTC	CCCCG	CC-----AGGGC	GC-----GACA	AACACAAACCCC	GGCGCTTCGTGCGCCAAGGA
yellow lupine (<i>Lupinus luteus</i>)	ITS2	Z72207.1 (1)	-----	CCCCG	CC-----AGGGC	GC-----GACA	AACACAAACCCC	GGCGCTTCGTGCGCCAAGGA
blue lupine (<i>L. angustifolius</i>)	ITS	AF007477.1 (70)	CACCTCGG-TCCCT	CCCCG	CC-----AGGGC	GC-----GACA	AACACAAACCCC	GGCGCTTCGTGCGCCAAGGA
blue lupine (<i>L. angustifolius</i>)	ITS	DQ524192.1 (70)	CACCTCGG-TCCCT	CCCCG	CC-----AGGGC	GC-----GACA	AACACAAACCCC	GGCGCTTCGTGCGCCAAGGA
Andean lupine (<i>Lupinus mutabilis</i>)	ITS	AF007484.1 (70)	CACCTCGG-CCCTC	CCCCG	CC-----AGGGC	GC-----GACA	AACACAAACCCC	GGCGCTTCGTGCGCCAAGGA
Andean lupine (<i>Lupinus mutabilis</i>)	ITS	DQ524264.1 (70)	CACCTCGG-CCCTC	CCCCG	CC-----AGGGC	GC-----GACA	AACACAAACCCC	GGCGCTTCGTGCGCCAAGGA
white lupine (<i>Lupinus albus</i>)	ITS	AF007481.1 (70)	CACCTCGG-CCCTC	CCCCG	CC-----AGGGC	GC-----GACA	AACACAAACCCC	GGCGCTTCGTGCGCCAAGGA
white lupine (<i>Lupinus albus</i>)	ITS	AY338946.1 (76)	CACCTCGG-CCCTC	CCCCG	CC-----AGGGC	GC-----GACA	AACACAAACCCC	GGCGCTTCGTGCGCCAAGGA
white lupine (<i>Lupinus albus</i>)	ITS1	Z72198.1 (70)	CACCTCGG-CCCTC	CCCCG	CC-----AGGGC	GC-----GACA	AACACAAACCCC	GGCGCTTCGTGCGCCAAGGA

			LoopB ITS1	LoopF ITS1+2	B2 ITS1	B3	F1 ITS1+2
			CAAATCTGTTAAGTGCGACTC	CAAATCTGTTAAGTGCGACTC	G-----GAGACG---GTGTCCCG-----C	GAGTCGTCACGACACA	CGTCACGACACA
			CAAATCTGTTAAGTGCGACTCCCG				CGTCACGACACA
soybean (<i>Glycine max</i>)	ITS	FJ609734.1 (184)	-----AC1CAAATCTGTTAAGTGCGACTCCCGGGGGCCCCG			GAGACG---GTGTCCCG-----	CGGGAGT---CGTCACGACACA
soybean (<i>Glycine max</i>)	ITS	AJ009787.1 (158)	-----AC1CAAATCTGTTAAGTGCGACTCCCGGGGGCCCCG			GAGACG---GTGTCCCG-----	CGGGAGT---CGTCACGACACA
soybean (<i>Glycine max</i>)	ITS	AJ011337.1 (157)	-----CTCAAATCTGTTAAGTGCGACTCCCGGGGGCCCCG			GAGACG---GTGTCCCG-----	CGGGAGT---CGTCACGACACA
soybean (<i>Glycine max</i>)	ITS	EF517917.1 (151)	-----AC1CAAATCTGTTAAGTGCGACTCCCGGGGGCCCCG			GAGACG---GTGTCCCG-----	CGGGAGT---CGTCACGACACA
soybean (<i>Glycine max</i>)	ITS	L36612.1 (164)	-----AC1CAAATCTGTTAAGTGCGACTCCCGGGGGCCCCG			GAGACG---GTGTCCCG-----	CGGGAGT---CGTCACGACACA
soybean (<i>Glycine max</i>)	ITS	FJ980442.1 (168)	-----AC1CAAATCTGTTAAGTGCGACTCCCGGGGGCCCCG			GAGACG---GTGTCCCG-----	CGGGAGT---CGTCACGACACA
soybean (<i>Glycine max</i>)	ITS	U60551.1 (158)	-----AC1CAAATCTGTTAAGTGCGACTCCCGGGGGCCCCG			GAGACG---GTGTCCCG-----	CGGGAGT---CGTCACGACACA
buckwheat (<i>Fagopyrum esculentum</i>)	ITS	EF653685.1 (163)	-----AACGAAACCCGCGCGGACCGCGCAAGGACACG			AACGAAAGCGCGTCCCGAGCCTCCG	CGTCGCGCGTGCCTGTT
barley (<i>Hordeum vulgare</i>)	ITS	FJ593180.1 (163)	-----GCCGAAGGCGTCAAGGAACACTGTGCTAAACCCG			GGGAGA---TGCCTAGTTTGCTGGTCTC	CCCTGTGTTGCATAT
wheat (<i>Triticum aestivum</i>)	ITS	AF440679.1 (133)	-----GCCGAAGGCGTCAAGGAACACTGTGCTAAACCCG			GGGGA---TGCTTAGTTTGCTAGCCCTCCCT	CGTGTTCATAT
green bean (<i>Phaseolus vulgaris</i>)	ITS	FJ172178.1 (220)	CCCGACAAAAAACCAACCCCGGGCGTTTACGCGGCAAGGAAACGAAGCTGTTAGGT			GAGGCAAAACGGGGGACGTGTCCCGG	CGCGCTTCACGATGAC
green bean (<i>Phaseolus vulgaris</i>)	ITS	JQ974390.1 (219)	AC-----AAAACATAACCCCGCGGTTTTACGCGGCAAGGAAACGAAGCTGTTAGGT			GAGGCAAAACGGGGGACGTGTCCCGG	CGCGCTTCACGATGAC
mung bean (<i>Vigna radiata</i>)	ITS	EU727150.1 (154)	-----CGAAACACAGTTCTGTGTGACTCGAGGACAGC			GTCCGA-----C	GGAATCGTCACGAAACG
mung bean (<i>Vigna radiata</i>)	ITS	GQ275377.1 (209)	-----CGAAACACAGTTCTGTGTGACTCGAGGACAGC			GTCCGAC-----	GGAATCGTCACGAAACG
peanut (<i>Arachis hypogaea</i>)	ITS	AF156675.2 (360)	-----AGCCAAACGTTTCTGCTCTCCCGCGCGGCTTCCGG			AGACG-----GCATCCGGT	CGGGCGAGGAGTGACACA
peanut (<i>Arachis hypogaea</i>)	ITS	AY615267.1 (135)	-----AGCCAAACGTTTCTGCTCTCCCGCGCGGCTTCCGG			AGACG-----GCATCCGGT	CGGGCGAGGAGTGACACA
hazelnut (<i>Corylus avellana</i>)	ITS	HQ442260.1 (199)	-----AACTTCACTAAAGAGTGC-----CTCCGTCGCTTCG			GAAACG-----GCSTGCGT	CGCGGGGCGGAATCTTG
hazelnut (<i>Corylus avellana</i>)	ITS	HQ442261.1 (199)	-----AACTTCACTAAAGAGTGC-----CTCCGTCGCTTCG			GAAACG-----GCSTGCGT	CGCGGGGCGGAATCTTG
broad bean (<i>Vicia faba</i>)	ITS	FJ212318.1 (219)	-----AAATTTTGCTCTGAGCGGACCTGCAI	GGCACCGG		AGACG-----GTTTTCGT	CGGGATGTTTGGACACA
broad bean (<i>Vicia faba</i>)	ITS	KJ787180.1 (201)	-----AAATTTTGCTCTGAGCGGACCTGCAI	GGCACCGG		AGACG-----GTTTTCGT	CGGGATGTTTGGACACA
pea (<i>Pisum sativum</i>)	ITS	AY143458.1 (192)	-----TAACTTTGCTCTGAGCACATCTGCAI	GGCACCGG		AGACG-----GTTTTCGTG	CGGGTGTGTTTGGACACA
pea (<i>Pisum sativum</i>)	ITS	AY143486.1 (192)	-----TAACTTTGCTCTGAGCACATCTGCAI	GGCACCGG		AGACG-----GTTTTCGTG	CGGGTGTGTTTGGACACA
lentil (<i>Lens culinaris</i>)	ITS	AF432169.1 (164)	-----AAATTTTGCTCTGAGCGGACCTGCAI	GGCACCGG		AGACG-----GTTTTCGTG	CGGGTGTGTTTGGACACA
lentil (<i>Lens culinaris</i>)	ITS	EU224452.1 (171)	-----AAATTTTGCTCTGAGCGGACCTGCAI	GGCACCGG		AGACG-----GTTTTCGTG	CGGGTGTGTTTGGACACA
chickpea (<i>Cicer arietinum</i>)	ITS	AY594660.1 (301)	-----AAACTTTGTTATGTGCGGACCTGCAI	GGAACCGG		AGACG-----GTTTTCGTGCG	CGTTGTGTTTGGACACA
chickpea (<i>Cicer arietinum</i>)	ITS	DQ312219.1 (199)	-----AAACTTTGTTATGTGCGGACCTGCAI	GGAACCGG		AGACG-----GTTTTCGTGCG	CGTTGTGTTTGGACACA
chickpea (<i>Cicer arietinum</i>)	ITS1	U56003.1 (138)	-----AAACTTTGTTATGTGCGGACCTGCAI	GGAACCGG		AGACG-----GTTTTCGTGCG	CGTTGTGTTTGGACACA
peanut (<i>Arachis hypogaea</i>)	ITS1	AJ555556.1 (132)	-----AGCCAAACGTTTCTGCTCTCCCGCGCGGCTTCCGG			AGACG-----GCATCCGGT	CGGGCGAGGAGTGACACA
chickpea (<i>Cicer arietinum</i>)	ITS2	U56004.1 (1)					
Andean lupine (<i>Lupinus mutabilis</i>)	ITS2	Z72197.1 (1)					
blue lupine (<i>L. angustifolius</i>)	ITS1	Z72202.1 (162)	-----AAITGAATATCGTTTAGTTTCGCCCGCGTGGGCCGG			AGACG-----GTGTCGTG	CGGGCGCGGTTGGACACG
blue lupine (<i>L. angustifolius</i>)	ITS2	Z72203.1 (1)					
Andean lupine (<i>Lupinus mutabilis</i>)	ITS1	Z72196.1 (162)	-----AAITGAATATCGTTTAGTTTCGCCCGCGTGGGCCGG			AGACG-----GTGTCGTG	CGGGCGCGGTTGGACACG
yellow lupine (<i>Lupinus luteus</i>)	ITS	AF007478.1 (162)	-----AAITGAATATCGTTTAGTTTCGCCCGCGTGGGCCGG			AGACG-----GTGTCGTG	CGGGCGCGGTTGGACACG
yellow lupine (<i>Lupinus luteus</i>)	ITS1	Z72206.1 (162)	-----AAITGAATATCGTTTAGTTTCGCCCGCGTGGGCCGG			AGACG-----GTGTCGTG	CGGGCGCGGTTGGACACG
yellow lupine (<i>Lupinus luteus</i>)	ITS	DQ524249.1 (162)	-----AAITGAATATCGTTTAGTTTCGCCCGCGTGGGCCGG			AGACG-----GTGTCGTG	CGGGCGCGGTTGGACACG
yellow lupine (<i>Lupinus luteus</i>)	ITS2	Z72207.1 (1)					
blue lupine (<i>L. angustifolius</i>)	ITS	AF007477.1 (162)	-----AAITGAATATCGTTTAGTTTCGCCCGCGTGGGCCGG			AGACG-----GTGTCGTG	CGGGCGCGGTTGGACACG
blue lupine (<i>L. angustifolius</i>)	ITS	DQ524192.1 (162)	-----AAITGAATATCGTTTAGTTTCGCCCGCGTGGGCCGG			AGACG-----GTGTCGTG	CGGGCGCGGTTGGACACG
Andean lupine (<i>Lupinus mutabilis</i>)	ITS	AF007484.1 (162)	-----AAITGAATATCGTTTAGTTTCGCCCGCGTGGGCCMG			AGACG-----GTGTCGTG	CGGGCGCGGTTGGACACG
Andean lupine (<i>Lupinus mutabilis</i>)	ITS	DQ524264.1 (162)	-----AAITGAATATCGTTTAGTTTCGCCCGCGTGGGCCMG			AGACG-----GTGTCGTG	CGGGCGCGGTTGGACACG
white lupine (<i>Lupinus albus</i>)	ITS	AF007481.1 (162)	-----AAITGAATATCGTTTAGTTTCGCCCGCGTGGGCCMG			AGACG-----GTGTCGTG	CGGGCGCGGTTGGACACG
white lupine (<i>Lupinus albus</i>)	ITS	AY338946.1 (168)	-----AAITGAATATCGTTTAGTTTCGCCCGCGTGGGCCMG			AGACG-----GTGTCGTG	CGGGCGCGGTTGGACACG
white lupine (<i>Lupinus albus</i>)	ITS1	Z72198.1 (162)	-----AAITGAATATCGTTTAGTTTCGCCCGCGTGGGCCMG			AGACG-----GTGTCGTG	CGGGCGCGGTTGGACACG

A

ACATTT

ACATTTACATACAATG

soybean (<i>Glycine max</i>)	ITS	FJ609734.1	(252)	ACATTTACATACAATGACTCTCGGCAACGGATATCTCGGCTCTTGCATCGATGAAGAACGTAGCGAAATGCGATACTTGGTGTGAATTGCA	GAATCCCG
soybean (<i>Glycine max</i>)	ITS	AJ009787.1	(226)	ACATTTACATACAATGACTCTCGGCAACGGATATCTCGGCTCTTGCATCGATGAAGAACGTAGCGAAATGCGATACTTGGTGTGAATTGCA	GAATCCCG
soybean (<i>Glycine max</i>)	ITS	AJ011337.1	(224)	ACATTTACATACAATGACTCTCGGCAACGGATATCTCGGCTCTTGCATCGATGAAGAACGTAGCGAAATGCGATACTTGGTGTGAATTGCA	GAATCCCG
soybean (<i>Glycine max</i>)	ITS	EF517917.1	(219)	ACATTTACATACAATGACTCTCGGCAACGGATATCTCGGCTCTTGCATCGATGAAGAACGTAGCGAAATGCGATACTTGGTGTGAATTGCA	GAATCCCG
soybean (<i>Glycine max</i>)	ITS	L36612.1	(232)	ACATTTACATACAATGACTCTCGGCAACGGATATCTCGGCTCTTGCATCGATGAAGAACGTAGCGAAATGCGATACTTGGTGTGAATTGCA	GAATCCCG
soybean (<i>Glycine max</i>)	ITS	FJ980442.1	(236)	ACATTTACATACAATGACTCTCGGCAACGGATATCTCGGCTCTTGCATCGATGAAGAACGTAGCGAAATGCGATACTTGGTGTGAATTGCA	GAATCCCG
soybean (<i>Glycine max</i>)	ITS	U60551.1	(226)	ACATTTACATACAATGACTCTCGGCAACGGATATCTCGGCTCTTGCATCGATGAAGAACGTAGCGAAATGCGATACTTGGTGTGAATTGCA	GAATCCCG
buckwheat (<i>Fagopyrum esculentum</i>)	ITS	EF653685.1	(241)	TTTACGAAACGAACTCTCGGCAACGGATATCTCGGCTCTTGCATCGATGAAGAACGTAGCGAAATGCGATACTTGGTGTGAATTGCA	GAATCCCG
barley (<i>Hordeum vulgare</i>)	ITS	FJ593180.1	(238)	ATATTTAATCCACACGACTCTCGGCAACGGATATCTCGGCTCTTGCATCGATGAAGAACGTAGCGAAATGCGATACTTGGTGTGAATTGCA	GAATCCCG
wheat (<i>Triticum aestivum</i>)	ITS	AF440679.1	(208)	CTATTTAATCCACACGACTCTCGGCAACGGATATCTCGGCTCTTGCATCGATGAAGAACGTAGCGAAATGCGATACTTGGTGTGAATTGCA	GAATCCCG
green bean (<i>Phaseolus vulgaris</i>)	ITS	FJ172178.1	(320)	ATGTTT-ATGTAAAAATGACTCTCGGCAACGGATATCTCGGCTCTTGCATCGATGAAGAACGTAGCGAAATGCGATACTTGGTGTGAATTGCA	GAATCCCG
green bean (<i>Phaseolus vulgaris</i>)	ITS	JQ974390.1	(314)	ATGTTT-ATGTAAAAATGACTCTCGGCAACGGATATCTCGGCTCTTGCATCGATGAAGAACGTAGCGAAATGCGATACTTGGTGTGAATTGCA	GAATCCCG
mung bean (<i>Vigna radiata</i>)	ITS	EU727150.1	(212)	AATCA-----AAACGACTCTCGGCAACGGATATCTCGGCTCTTGCATCGATGAAGAACGTAGCGAAATGCGATACTTGGTGTGAATTGCA	GAATCCCG
mung bean (<i>Vigna radiata</i>)	ITS	GQ275377.1	(267)	AATCA-----AAACGACTCTCGGCAACGGATATCTCGGCTCTTGCATCGATGAAGAACGTAGCGAAATGCGATACTTGGTGTGAATTGCA	GAATCCCG
peanut (<i>Arachis hypogaea</i>)	ITS	AF156675.2	(428)	AGAGTTTA--AGAACGACTCTCGGCAACGGATATCTCGGCTCTTGCATCGATGAAGAACGTAGCGAAATGCGATACTTGGTGTGAATTGCA	GAATCCCG
peanut (<i>Arachis hypogaea</i>)	ITS	AY615267.1	(203)	AGAGTTTA--AGAACGACTCTCGGCAACGGATATCTCGGCTCTTGCATCGATGAAGAACGTAGCGAAATGCGATACTTGGTGTGAATTGCA	GAATCCCG
hazelnut (<i>Corylus avellana</i>)	ITS	HQ442260.1	(263)	TGCAA--AACCATTAACGACTCTCGGCAACGGATATCTCGGCTCTTGCATCGATGAAGAACGTAGCGAAATGCGATACTTGGTGTGAATTGCA	GAATCCCG
hazelnut (<i>Corylus avellana</i>)	ITS	HQ442261.1	(263)	TGCAA--AACCATTAACGACTCTCGGCAACGGATATCTCGGCTCTTGCATCGATGAAGAACGTAGCGAAATGCGATACTTGGTGTGAATTGCA	GAATCCCG
broad bean (<i>Vicia faba</i>)	ITS	FJ212318.1	(286)	TGATA---TAGAATGACTCTCGGCAACGGATATCTAGGCTCTTGCATCGATGAAGAACGTAGCGAAATGCGATACTTGGTGTGAATTGCA	GAATCCCG
broad bean (<i>Vicia faba</i>)	ITS	KJ787180.1	(268)	TGATA---TAGAATGACTCTCGGCAACGGATATCTAGGCTCTTGCATCGATGAAGAACGTAGCGAAATGCGATACTTGGTGTGAATTGCA	GAATCCCG
pea (<i>Pisum sativum</i>)	ITS	AY143458.1	(259)	TTTAT---ATAAAATGACTCTCGGCAACGGATATCTAGGCTCTTGCATCGATGAAGAACGTAGCGAAATGCGATACTTGGTGTGAATTGCA	GAATCCCG
pea (<i>Pisum sativum</i>)	ITS	AY143486.1	(259)	TTTAT---ATAAAATGACTCTCGGCAACGGATATCTAGGCTCTTGCATCGATGAAGAACGTAGCGAAATGCGATACTTGGTGTGAATTGCA	GAATCCCG
lentil (<i>Lens culinaris</i>)	ITS	AF432169.1	(230)	TGATA---TAGAATGACTCTCGGCAACGGATATCTAGGCTCTTGCATCGATGAAGAACGTAGCGAAATGCGATACTTGGTGTGAATTGCA	GAATCCCG
lentil (<i>Lens culinaris</i>)	ITS	EU224452.1	(237)	TGATA---TAGAATGACTCTCGGCAACGGATATCTAGGCTCTTGCATCGATGAAGAACGTAGCGAAATGCGATACTTGGTGTGAATTGCA	GAATCCCG
chickpea (<i>Cicer arietinum</i>)	ITS	AY594660.1	(370)	TGAAA--ATATAGAATGACTCTCGGCAACGGATATCTAGGCTCTTGCATCGATGAAGAACGTAGCGAAATGCGATACTTGGTGTGAATTGCA	GAATCCCG
chickpea (<i>Cicer arietinum</i>)	ITS	DQ312219.1	(268)	TGAAA--ATATAGAATGACTCTCGGCAACGGATATCTAGGCTCTTGCATCGATGAAGAACGTAGCGAAATGCGATACTTGGTGTGAATTGCA	GAATCCCG
chickpea (<i>Cicer arietinum</i>)	ITS1	U56003.1	(207)	TGAAA--ATATAGAATGACTCTCGGCAACGGATATCTAGGCTCTTGCATCGATGAAGAACGTAGCGAAATGCGATACTTGGTGTGAATTGCA	GAATCCCG
peanut (<i>Arachis hypogaea</i>)	ITS1	AJ555556.1	(200)	AGA-----	
chickpea (<i>Cicer arietinum</i>)	ITS2	U56004.1	(1)	-----	
Andean lupine (<i>Lupinus mutabilis</i>)	ITS2	Z72197.1	(1)	-----	
blue lupine (<i>L. angustifolius</i>)	ITS1	Z72202.1	(230)	CTTAT---CCTAA-----	
blue lupine (<i>L. angustifolius</i>)	ITS2	Z72203.1	(1)	-----	
Andean lupine (<i>Lupinus mutabilis</i>)	ITS1	Z72196.1	(230)	CTTAT---CCTAA-----	
yellow lupine (<i>Lupinus luteus</i>)	ITS	AF007478.1	(230)	CTTAT---CCTAAAGACTCTCGGCAACGGATATCTCGGCTCTTGCATCGATGAAGAACGTAGCGAAATGCGATACTTGGTGTGAATTGCA	GAATCCCG
yellow lupine (<i>Lupinus luteus</i>)	ITS1	Z72206.1	(230)	CTTAT---CCTAA-----	
yellow lupine (<i>Lupinus luteus</i>)	ITS	DQ524249.1	(231)	CTTAT---CCTAAAGACTCTCGGCAACGGATATCTCGGCTCTTGCATCGATGAAGAACGTAGCGAAATGCGATACTTGGTGTGAATTGCA	GAATCCCG
yellow lupine (<i>Lupinus luteus</i>)	ITS2	Z72207.1	(1)	-----	
blue lupine (<i>L. angustifolius</i>)	ITS	AF007477.1	(230)	CTTAT---CCTAAAGACTCTCGGCAACGGATATCTCGGCTCTTGCATCGATGAAGAACGTAGCGAAATGCGATACTTGGTGTGAATTGCA	GAATCCCG
blue lupine (<i>L. angustifolius</i>)	ITS	DQ524192.1	(230)	CTTAT---CCTAAAGACTCTCGGCAACGGATATCTCGGCTCTTGCATCGATGAAGAACGTAGCGAAATGCGATACTTGGTGTGAATTGCA	GAATCCCG
Andean lupine (<i>Lupinus mutabilis</i>)	ITS	AF007484.1	(231)	CTTAT---CCTAAAGACTCTCGGCAACGGATATCTCGGCTCTTGCATCGATGAAGAACGTAGCGAAATGCGATACTTGGTGTGAATTGCA	GAATCCCG
Andean lupine (<i>Lupinus mutabilis</i>)	ITS	DQ524264.1	(231)	CTTAT---CCTAAAGACTCTCGGCAACGGATATCTCGGCTCTTGCATCGATGAAGAACGTAGCGAAATGCGATACTTGGTGTGAATTGCA	GAATCCCG
white lupine (<i>Lupinus albus</i>)	ITS	AF007481.1	(230)	CTTAT---CCTAAAGACTCTCGGCAACGGATATCTCGGCTCTTGCATCGATGAAGAACGTAGCGAAATGCGATACTTGGTGTGAATTGCA	GAATCCCG
white lupine (<i>Lupinus albus</i>)	ITS	AY338946.1	(236)	CTTAT---CCTAAAGACTCTCGGCAACGGATATCTCGGCTCTTGCATCGATGAAGAACGTAGCGAAATGCGATACTTGGTGTGAATTGCA	GAATCCCG
white lupine (<i>Lupinus albus</i>)	ITS1	Z72198.1	(230)	CTTAT---CCTAA-----	

					GCAAAACATG
	soybean (<i>Glycine max</i>) ITS FJ609734.1 (351)	TGAACCATCGAGTCTTTGAACGCAAGTTGCGCCCGAAGCCATT-AGGCCGAGGGCACGCGCTGCCTGGGTGTACACATCGTTTCCCCAA-	-CGCAAACATG		
	soybean (<i>Glycine max</i>) ITS AJ009787.1 (325)	TAAACCATCGAGTCTTTAAACGCAAGTTGCGCCCGAAGCCATT-AGGCCGAGGGCACGCGCTGCCTGGGTGTACACATCGTTTCCCCAA-	-CGCAAACATG		
	soybean (<i>Glycine max</i>) ITS AJ011337.1 (323)	TAAACCATCGAG-TTTGAACGCAAGTTGCGCCCGAAGCCATT-AGGCCGAGGGCACGCGCTGCCTGGGTGTACACATCGTTTCCCCAA-	-CGCAAACATG		
	soybean (<i>Glycine max</i>) ITS EF517917.1 (318)	TGAACCATCGAGTCTTTGAACGCAAGTTGCGCCCGAAGCCATT-AGGCCGAGGGCACGCGCTGCCTGGGTGTACACATCGTTTCCCCAA-	-CGCAAACATG		
	soybean (<i>Glycine max</i>) ITS L36612.1 (331)	TGAACCATCGAGTCTTTGAACGCAAGTTGCGCCCGAAGCCATT-AGGCCGAGGGCACGCGCTGCCTGGGTGTACACATCGTTTCCCCAA-	-CGCAAACATG		
	soybean (<i>Glycine max</i>) ITS FJ980442.1 (335)	TGAACCATCGAGTCTTTGAACGCAAGTTGCGCCCGAAGCCATT-AGGCCGAGGGCACGCGCTGCCTGGGTGTACACATCGTTTCCCCAA-	-CGCAAACATG		
	soybean (<i>Glycine max</i>) ITS U60551.1 (325)	TGAACCATCGAGTCTTTGAACGCAAGTTGCGCCCGAAGCCATT-AGGCCGAGGGCACGCGCTGCCTGGGTGTACACATCGTTTCCCCAA-	-CGCAAACATG		
buckwheat (<i>Fagopyrum esculentum</i>) ITS EF653685.1 (340)	TGAACCATCGAGTCTTTGAACGCAAGTTGCGCCCGAAGCCATT-CGGCTEAGGGCACGCGCTGTCTGGGCTCAGGCACCGGCTCGGCCCC-CTCCCCCTCC				
barley (<i>Hordeum vulgare</i>) ITS FJ593180.1 (337)	CBAACCATCGAGTCTTTGAACGCAAGTTGCGCCCGAAGCCACT-CGGCCGAGGGCACGCGCTGCCTGGGCTCAGGCACAAAACAGCTTCCCAAGCACCTC				
wheat (<i>Triticum aestivum</i>) ITS AF440679.1 (307)	CGAACCATCGAGTCTTTGAACGCAAGTTGCGCCCGAAGCCACT-CGGCCGAGGGCACGCGCTGCCTGGGCTCAGGCACAAAACAGCTTCCCAAGCACCTC				
green bean (<i>Phaseolus vulgaris</i>) ITS FJ172178.1 (418)	TGAACCATCGAGTCTTTGAACGCAAGTTGCGCCCGAAGCCATT-AGGCTEAGGGCACGCGCTGCCTGGGTGTACACATCGTCAACCCCCTTCTCTCTCACT				
green bean (<i>Phaseolus vulgaris</i>) ITS JQ974390.1 (412)	TGAACCATCGAGTCTTTGAACGCAAGTTGCGCCCGAAGCCATT-AGGCTEAGGGCACGCGCTGCCTGGGTGTACACATCGTCAACCCCCTTCTCTCTCACT				
mung bean (<i>Vigna radiata</i>) ITS EU727150.1 (305)	TGAACCATCGAGTCTTTGAACGCAAGTTGCGCCCGAAGCCATT-AGGCCGAGGGCACGCGCTGCCTGGGTGTACACATCGTCAACCCCCTTCTCTCTCACT				
mung bean (<i>Vigna radiata</i>) ITS GQ275377.1 (360)	TGAACCATCGAGTCTTTGAACGCAAGTTGCGCCCGAAGCCATT-AGGCCGAGGGCACGCGCTGCCTGGGTGTACACATCGTCAACCCCCTTCTCTCTCACT				
peanut (<i>Arachis hypogaea</i>) ITS AF156675.2 (525)	TGAACCATCGAGTCTTTGAACGCAAGTTGCGCCCGAAGCCATT-AGGCCGAGGGCACGCGCTGCCTGGGTGTACACATCGTCAACCCCCTTCTCTCTCACT				
peanut (<i>Arachis hypogaea</i>) ITS AY615267.1 (299)	TGAACCATCGAGTCTTTGAACGCAAGTTGCGCCCGAAGCCATT-AGGCCGAGGGCACGCGCTGCCTGGGTGTACACATCGTCAACCCCCTTCTCTCTCACT				
hazelnut (<i>Corylus avellana</i>) ITS HQ442260.1 (361)	CGAATCATCGAGTCTTTGAACGCAAGTTGCGCCCGAAGCCATC-TGGTGAGGGCACGCTCTGCCTGGGTGTACACATCGTCAACCCCCTTCTCTCTCACT				
hazelnut (<i>Corylus avellana</i>) ITS HQ442261.1 (361)	CGAATCATCGAGTCTTTGAACGCAAGTTGCGCCCGAAGCCATC-TGGTGAGGGCACGCTCTGCCTGGGTGTACACATCGTCAACCCCCTTCTCTCTCACT				
broad bean (<i>Vicia faba</i>) ITS FJ212318.1 (381)	TGAACCATCGAGTCTTTGAACGCAAGTTGCGCCCGATGCCATT-AGGTTGAGGGCACGCTCTGCCTGGGTGTACATATCGAAGCCCTCT-TGCCAATTTC				
broad bean (<i>Vicia faba</i>) ITS KU787180.1 (363)	TGAACCATCGAGTCTTTGAACGCAAGTTGCGCCCGATGCCATT-AGGTTGAGGGCACGCTCTGCCTGGGTGTACATATCGAAGCCCTCT-TGCCAATTTC				
pea (<i>Pisum sativum</i>) ITS AY143458.1 (355)	TGAACCATCGAGTCTTTGAACGCAAGTTGCGCCCGATGCCATT-AGGTTGAGGGCACGCTCTGCCTGGGTGTACATATCGAAGCCCTCT-TGCCAATTTC				
pea (<i>Pisum sativum</i>) ITS AY143486.1 (355)	TGAACCATCGAGTCTTTGAACGCAAGTTGCGCCCGATGCCATT-AGGTTGAGGGCACGCTCTGCCTGGGTGTACATATCGAAGCCCTCT-TGCCAATTTC				
lentil (<i>Lens culinaris</i>) ITS AF432169.1 (325)	TGAACCATCGAGTCTTTGAACGCAAGTTGCGCCCGATGCCATT-AGGTTGAGGGCACGCTCTGCCTGGGTGTACATATCGAAGCCCTCT-TGCCAATTTC				
lentil (<i>Lens culinaris</i>) ITS EU224452.1 (332)	TGAACCATCGAGTCTTTGAACGCAAGTTGCGCCCGATGCCATT-AGGTTGAGGGCACGCTCTGCCTGGGTGTACATATCGAAGCCCTCT-TGCCAATTTC				
chickpea (<i>Cicer arietinum</i>) ITS AY594660.1 (468)	TGAACCATCGAGTCTTTGAACGCAAGTTGCGCCCGATGCCATT-AGGTTGAGGGCACGCTCTGCCTGGGTGTACATATCGAAGCCCTCT-TGCCAATTTC				
chickpea (<i>Cicer arietinum</i>) ITS DQ312219.1 (365)	TGAACCATCGAGTCTTTGAACGCAAGTTGCGCCCGATGCCATT-AGGTTGAGGGCACGCTCTGCCTGGGTGTACATATCGAAGCCCTCT-TGCCAATTTC				
chickpea (<i>Cicer arietinum</i>) ITS1 U56003.1 (215)	-----ATCGAAGCCGATT-GCCGATTTC				
peanut (<i>Arachis hypogaea</i>) ITS1 AJ555556.1 (203)	-----CATCGTTGCCCCCGTGCC-TTGGCCA				
chickpea (<i>Cicer arietinum</i>) ITS2 U56004.1 (1)	-----CATCGTTGCCCCCGTGCC-TTGGCCA				
Andean lupine (<i>Lupinus mutabilis</i>) ITS2 Z72197.1 (1)	-----CATCGTTGCCCCCGTGCC-TTGGCCA				
blue lupine (<i>L. angustifolius</i>) ITS1 Z72202.1 (240)	-----CATCGTTGCCCCCGTGCC-TTGGCCA				
blue lupine (<i>L. angustifolius</i>) ITS2 Z72203.1 (1)	-----CATCGTTGCCCCCGTGCC-TTGGCCA				
Andean lupine (<i>Lupinus mutabilis</i>) ITS1 Z72196.1 (240)	-----CATCGTTGCCCCCGTGCC-TTGGCCA				
yellow lupine (<i>Lupinus luteus</i>) ITS AF007478.1 (325)	TGAACCATCGAGTCTTTGAACGCAAGTTGCGCCCGAAGCCATT-AGGCCGAGGGCACGCGCTGCCTGGGTGTGACATCGTTGCCCGTGCC-TTGGCCA				
yellow lupine (<i>Lupinus luteus</i>) ITS1 Z72206.1 (240)	TGAACCATCGAGTCTTTGAACGCAAGTTGCGCCCGAAGCCATT-AGGCCGAGGGCACGCGCTGCCTGGGTGTGACATCGTTGCCCGTGCC-TTGGCCA				
yellow lupine (<i>Lupinus luteus</i>) ITS DQ524249.1 (326)	TGAACCATCGAGTCTTTGAACGCAAGTTGCGCCCGAAGCCATT-AGGCCGAGGGCACGCGCTGCCTGGGTGTGACATCGTTGCCCGTGCC-TTGGCCA				
yellow lupine (<i>Lupinus luteus</i>) ITS2 Z72207.1 (1)	-----CATCGTTGCCCCCGTGCC-TTGGCCA				
blue lupine (<i>L. angustifolius</i>) ITS AF007477.1 (325)	TGAACCATCGAGTCTTTGAACGCAAGTTGCGCCCGAAGCCATT-AGGCCGAGGGCACGCGCTGCCTGGGTGTGACATCGTTGCCCGTGCC-TTGGCCA				
blue lupine (<i>L. angustifolius</i>) ITS DQ524192.1 (325)	TGAACCATCGAGTCTTTGAACGCAAGTTGCGCCCGAAGCCATT-AGGCCGAGGGCACGCGCTGCCTGGGTGTGACATCGTTGCCCGTGCC-TTGGCCA				
Andean lupine (<i>Lupinus mutabilis</i>) ITS AF007484.1 (326)	TGAACCATCGAGTCTTTGAACGCAAGTTGCGCCCGAAGCCATT-AGGCCGAGGGCACGCGCTGCCTGGGTGTGACATCGTTGCCCGTGCC-TTGGCCA				
Andean lupine (<i>Lupinus mutabilis</i>) ITS DQ524264.1 (326)	TGAACCATCGAGTCTTTGAACGCAAGTTGCGCCCGAAGCCATT-AGGCCGAGGGCACGCGCTGCCTGGGTGTGACATCGTTGCCCGTGCC-TTGGCCA				
white lupine (<i>Lupinus albus</i>) ITS AF007481.1 (325)	TGAACCATCGAGTCTTTGAACGCAAGTTGCGCCCGAAGCCATT-AGGCCGAGGGCACGCGCTGCCTGGGTGTGACATCGTTGCCCGTGCC-TTGGCCA				
white lupine (<i>Lupinus albus</i>) ITS AY338946.1 (331)	TGAACCATCGAGTCTTTGAACGCAAGTTGCGCCCGAAGCCATT-AGGCCGAGGGCACGCGCTGCCTGGGTGTGACATCGTTGCCCGTGCC-TTGGCCA				
white lupine (<i>Lupinus albus</i>) ITS1 Z72198.1 (240)	-----CATCGTTGCCCCCGTGCC-TTGGCCA				

				F3 ITS2		F2 ITS2	
				GCCTCGTGGTTGGTTGAA		TGGG--TTCATGGCCGACTT	
soybean (<i>Glycine max</i>)	ITS	FJ609734.1	(449)	TAACAATG-----TTGCTGCG	TTGCTGCGCGGGGTGATGCTGACCTCCCGCGAGCA	CCCGCCTCGTGGTTGGTTGAAATCTGGG	TTCATGGCCGACTT
soybean (<i>Glycine max</i>)	ITS	AJ009787.1	(423)	TAACAATG-----TTG-TGCG	CGGGGTATGCTGACCTCCCGCGAGCA	CCCGCCTCGTGGTTGGTTGAAATCTGGG	TTCATGGCCGACTT
soybean (<i>Glycine max</i>)	ITS	AJ011337.1	(421)	TAACAATG-----TTG-TGCG	CGGGGTGATGCTGACCTCCCGCGAGCA	CCCGCCTCGTGGTTGGTTGAAATCTGGG	TTCATGGCCGACTT
soybean (<i>Glycine max</i>)	ITS	EF517917.1	(416)	TAACAATG-----TTGCTGCG	CGGGGTGATGCTGACCTCCCGCGAGCA	CCCGCCTCGTGGTTGGTTGAAATCTGGG	TTCATGGCCGACTT
soybean (<i>Glycine max</i>)	ITS	L36612.1	(429)	TAACAATG-----TTGCTGCG	CGGGGTGATGCTGACCTCCCGCGAGCA	CCCGCCTCGTGGTTGGTTGAAATCTGGG	TTCATGGCCGACTT
soybean (<i>Glycine max</i>)	ITS	FJ980442.1	(433)	TAACAATG-----TTGCTGCG	CGGGGTGATGCTGACCTCCCGCGAGCA	CCCGCCTCGTGGTTGGTTGAAATCTGGG	TTCATGGCCGACTT
soybean (<i>Glycine max</i>)	ITS	U60551.1	(423)	TAACAATG-----TTGCTGCG	CGGGGTGATGCTGACCTCCCGCGAGCA	CCCGCCTCGTGGTTGGTTGAAATCTGGG	TTCATGGCCGACTT
buckwheat (<i>Fagopyrum esculentum</i>)	ITS	EF653685.1	(438)	TTCCCAAGGGAAG-GGT	CGGGGTGATGCTGACCTCCCGCGAGCA	CCCGCCTCGTGGTTGGTTGAAATCTGGG	TTCATGGCCGACTT
barley (<i>Hordeum vulgare</i>)	ITS	FJ593180.1	(436)	TTCCGGGAA-----	TTGCGGATCGGCATATGGTCCCTCGTCTCTC	AAGGGCGGTGG--GCCGAACATCGGC	TTCATGGCCGACTT
wheat (<i>Triticum aestivum</i>)	ITS	AF440679.1	(406)	ATCCGGGAAT-----	CGGGATCGGCATATGGTCCCTCGTCTCTC	AAGGGCGGTGG--ACCGAATATCGGC	TTCATGGCCGACTT
green bean (<i>Phaseolus vulgaris</i>)	ITS	FJ172178.1	(517)	TAACCTCGTTAAAT---	GTGAGGCGGTGGGTGAAAGTTGACCTCCCGCGAGCA	GGTTCCTCGTGGTTGGTTGAAATCTGGG	TTCATGGCCGACTT
green bean (<i>Phaseolus vulgaris</i>)	ITS	JQ974390.1	(511)	ATCCAGTTAA-----	TGTGAGGCGAGTGGGTGAAAGTTGACCTCCCGCGAGCA	AGTTCCTCGTGGTTGGTTGAAATCTGGG	TTCATGGCCGACTT
mung bean (<i>Vigna radiata</i>)	ITS	EU727150.1	(404)	ATC-----	GGGGCGAAGGTGGCTCCCGCGAGCA	CACCGTCTCGTGGTTGGTTGAAATCTGGG	TTCATGGCCGACTT
mung bean (<i>Vigna radiata</i>)	ITS	GQ275377.1	(459)	ATC-----	GGGGCGAAGGTGGCTCCCGCGAGCA	CACCGTCTCGTGGTTGGTTGAAATCTGGG	TTCATGGCCGACTT
peanut (<i>Arachis hypogaea</i>)	ITS	AF156675.2	(625)	GTCCCGAGGCA-----	CGGGGTGATGCTGACCTCCCGCGAGCA	CCCGCCTCGTGGTTGGTTGAAATCTGGG	TTCATGGCCGACTT
peanut (<i>Arachis hypogaea</i>)	ITS	AY615267.1	(398)	TCCCGAGGAC-----	GGGAGGGGCGAAGCTTGGCTCCCGCGAGCA	CCCGCCTCGTGGTTGGTTGAAATCTGGG	TTCATGGCCGACTT
hazelnut (<i>Corylus avellana</i>)	ITS	HQ442260.1	(460)	TCTCCAGAGACGAGGGCGGTCTG	CGGGGTGATGCTGACCTCCCGCGAGCA	CCCGCCTCGTGGTTGGTTGAAATCTGGG	TTCATGGCCGACTT
hazelnut (<i>Corylus avellana</i>)	ITS	HQ442261.1	(460)	TCTCCAGAGACGAGGGCGGTCTG	CGGGGTGATGCTGACCTCCCGCGAGCA	CCCGCCTCGTGGTTGGTTGAAATCTGGG	TTCATGGCCGACTT
broad bean (<i>Vicia faba</i>)	ITS	FJ212318.1	(479)	CCTGATAT-----	TGTGAGGCGAGTGGGTGAAAGTTGACCTCCCGCGAGCA	AGTTCCTCGTGGTTGGTTGAAATCTGGG	TTCATGGCCGACTT
broad bean (<i>Vicia faba</i>)	ITS	KJ787180.1	(461)	CCTGATAT-----	TGTGAGGCGAGTGGGTGAAAGTTGACCTCCCGCGAGCA	AGTTCCTCGTGGTTGGTTGAAATCTGGG	TTCATGGCCGACTT
pea (<i>Pisum sativum</i>)	ITS	AY143458.1	(453)	TTTTGACAG-----	GTATTTGTCAGGGTGGATGTTGGCTCCCGCGAGCA	AATGTCTCACGGTTGGTTGAAATCTGGG	TTCATGGCCGACTT
pea (<i>Pisum sativum</i>)	ITS	AY143486.1	(453)	TTTTGACAG-----	GTATTTGTCAGGGTGGATGTTGGCTCCCGCGAGCA	AATGTCTCACGGTTGGTTGAAATCTGGG	TTCATGGCCGACTT
lentil (<i>Lens culinaris</i>)	ITS	AF432169.1	(423)	TTTTGACAG-----	GTATTTGTCAGGGTGGATGTTGGCTCCCGCGAGCA	AATGTCTCACGGTTGGTTGAAATCTGGG	TTCATGGCCGACTT
lentil (<i>Lens culinaris</i>)	ITS	EU224452.1	(430)	TTTTGACAG-----	GTATTTGTCAGGGTGGATGTTGGCTCCCGCGAGCA	AATGTCTCACGGTTGGTTGAAATCTGGG	TTCATGGCCGACTT
chickpea (<i>Cicer arietinum</i>)	ITS	AY594660.1	(566)	TACTCGTAG-----	GTGTTGCTGGTGGTGAATGATGCTTCCCGCGAGCA	TTTGTCTCACGGTTGGTTGAAATCTGGG	TTCATGGCCGACTT
chickpea (<i>Cicer arietinum</i>)	ITS	DQ312219.1	(463)	TACTCGTAG-----	GTGTTGCTGGTGGTGAATGATGCTTCCCGCGAGCA	TTTGTCTCACGGTTGGTTGAAATCTGGG	TTCATGGCCGACTT
chickpea (<i>Cicer arietinum</i>)	ITS1	U56003.1	(215)	-----	-----	-----	-----
peanut (<i>Arachis hypogaea</i>)	ITS1	AJ555556.1	(203)	-----	-----	-----	-----
chickpea (<i>Cicer arietinum</i>)	ITS2	U56004.1	(24)	TACTCGTAG-----	GTGTTGCTGGTGGTGAATGATGCTTCCCGCGAGCA	TTTGTCTCACGGTTGGTTGAAATCTGGG	TTCATGGCCGACTT
Andean lupine (<i>Lupinus mutabilis</i>)	ITS2	Z72197.1	(26)	CGTGCCAGG-----	CACCAAGCGGGGCAATGTTGGCTTCCCGCGAGCA	AATGTCTCACGGTTGGTTGAAATCTGGG	TTCATGGCCGACTT
blue lupine (<i>L. angustifolius</i>)	ITS1	Z72202.1	(240)	-----	-----	-----	-----
blue lupine (<i>L. angustifolius</i>)	ITS2	Z72203.1	(26)	CGTGCTAGG-----	CACCAAGCGGGGCAATGTTGGCTTCCCGCGAGCA	AATGTCTCACGGTTGGTTGAAATCTGGG	TTCATGGCCGACTT
Andean lupine (<i>Lupinus mutabilis</i>)	ITS1	Z72196.1	(240)	-----	-----	-----	-----
yellow lupine (<i>Lupinus luteus</i>)	ITS	AF007478.1	(424)	CGTGCCAGG-----	CACCAAGCGGGGCAATGTTGGCTTCCCGCGAGCA	AATGTCTCACGGTTGGTTGAAATCTGGG	TTCATGGCCGACTT
yellow lupine (<i>Lupinus luteus</i>)	ITS1	Z72206.1	(240)	-----	-----	-----	-----
yellow lupine (<i>Lupinus luteus</i>)	ITS	DQ524249.1	(425)	CGTGCCAGG-----	CACCAAGCGGGGCAATGTTGGCTTCCCGCGAGCA	AATGTCTCACGGTTGGTTGAAATCTGGG	TTCATGGCCGACTT
yellow lupine (<i>Lupinus luteus</i>)	ITS2	Z72207.1	(26)	CGTGCCAGG-----	CACCAAGCGGGGCAATGTTGGCTTCCCGCGAGCA	AATGTCTCACGGTTGGTTGAAATCTGGG	TTCATGGCCGACTT
blue lupine (<i>L. angustifolius</i>)	ITS	AF007477.1	(423)	CGTGCTAGG-----	CACCAAGCGGGGCAATGTTGGCTTCCCGCGAGCA	AATGTCTCACGGTTGGTTGAAATCTGGG	TTCATGGCCGACTT
blue lupine (<i>L. angustifolius</i>)	ITS	DQ524192.1	(423)	CGTGCTAGG-----	CACCAAGCGGGGCAATGTTGGCTTCCCGCGAGCA	AATGTCTCACGGTTGGTTGAAATCTGGG	TTCATGGCCGACTT
Andean lupine (<i>Lupinus mutabilis</i>)	ITS	AF007484.1	(425)	CGTGCCAGG-----	CACCAAGCGGGGCAATGTTGGCTTCCCGCGAGCA	AATGTCTCACGGTTGGTTGAAATCTGGG	TTCATGGCCGACTT
Andean lupine (<i>Lupinus mutabilis</i>)	ITS	DQ524264.1	(425)	CGTGCCAGG-----	CACCAAGCGGGGCAATGTTGGCTTCCCGCGAGCA	AATGTCTCACGGTTGGTTGAAATCTGGG	TTCATGGCCGACTT
white lupine (<i>Lupinus albus</i>)	ITS	AF007481.1	(424)	CGTGCTAGG-----	CACCAAGCGGGGCAATGTTGGCTTCCCGCGAGCA	AATGTCTCACGGTTGGTTGAAATCTGGG	TTCATGGCCGACTT
white lupine (<i>Lupinus albus</i>)	ITS	AY338946.1	(430)	CGTGCTAGG-----	CACCAAGCGGGGCAATGTTGGCTTCCCGCGAGCA	AATGTCTCACGGTTGGTTGAAATCTGGG	TTCATGGCCGACTT
white lupine (<i>Lupinus albus</i>)	ITS1	Z72198.1	(240)	-----	-----	-----	-----

			LoopF ITS2	LoopB ITS2	ITS1+2	F1 ITS2	B1 ITS2	LoopB ITS2
			CGCC--GTGATAAAATGGTGGG	A--GCCACGCTCGAG--ACCAATC	GT----GCGAGCCGGTCA----GT-TCTG	B2	GACGACC----	
			CC--GTGATAAAATGGTGGG	GA--GCC			GACCCATCGACGACC----	
soybean (<i>Glycine max</i>)	ITS	FJ609734.1 (535)	CGCC--GTGATAAAATGGTGGG	GA--GCCACGCTCGAG--ACCAATC	GT----GCGAGCCGGTCA----GT-TCTG	GACCCATCGACGACC----		
soybean (<i>Glycine max</i>)	ITS	AJ009787.1 (508)	CGCC--GTGATAAAATGGTGGG	GA--GCCACGCTCGAG--ACCAATC	GT----GCGAGCCGGTCA----GT-TCTG	GACCCATCGACGACC----		
soybean (<i>Glycine max</i>)	ITS	AJ011337.1 (506)	CGCC--GTGATAAAATGGTGGG	GA--GCCACGCTCGAG--ACCAATC	GT----GCGAGCCGGTCA----GT-TCTG	GACCCATCGACGACC----		
soybean (<i>Glycine max</i>)	ITS	EF517917.1 (502)	CGCC--GTGATAAAATGGTGGG	GA--GCCACGCTCGAG--ACCAATC	GT----GCGAGCCGGTCA----GT-TCTG	GACCCATCGACGACC----		
soybean (<i>Glycine max</i>)	ITS	L36612.1 (515)	CGCC--GTGATAAAATGGTGGG	GA--GCCACGCTCGAG--ACCAATC	GT----GCGAGCCGGTCA----GT-TCTG	GACCCATCGACGACC----		
soybean (<i>Glycine max</i>)	ITS	FJ980442.1 (519)	CGCC--GTGATAAAATGGTGGG	GA--GCCACGCTCGAG--ACCAATC	GT----GCGAGCCGGTCA----GT-TCTG	GACCCATCGACGACC----		
soybean (<i>Glycine max</i>)	ITS	U60551.1 (509)	CGCC--GTGATAAAATGGTGGG	GA--GCCACGCTCGAG--ACCAATC	GT----GCGAGCCGGTCA----GT-TCTG	GACCCATCGACGACC----		
buckwheat (<i>Fagopyrum esculentum</i>)	ITS	EF653685.1 (528)	CGCC--CGCGACGATGGTGGG	GA--CTAAGACT--ACGATCGGGTC	GT----GCGAGCCGGTCA----GT-TCTG	GACCCATCGACGACC----		
barley (<i>Hordeum vulgare</i>)	ITS	FJ593180.1 (517)	CGGA--CACACGCGATGGTGGG	GA--CCTTGCTTTATCA--ATGCGATGATCC	GT----GCGAGCCGGTCA----GT-TCTG	GACCCATCGACGACC----		
wheat (<i>Triticum aestivum</i>)	ITS	AF440679.1 (487)	CGGA--CACACGCGATGGTGGG	GA--CCTTGCTTTATCA--ATGCGATGATCC	GT----GCGAGCCGGTCA----GT-TCTG	GACCCATCGACGACC----		
green bean (<i>Phaseolus vulgaris</i>)	ITS	FJ172178.1 (607)	CGCC--CACGAT--AACGGTGGG	GA--CCCACGCTCGAG--ACCAATC	GT----GCGAGCCGGTCA----GT-TCTG	GACCCATCGACGACC----		
green bean (<i>Phaseolus vulgaris</i>)	ITS	JQ974390.1 (600)	CGCC--CACGAT--AACGGTGGG	GA--CCCACGCTCGAG--ACCAATC	GT----GCGAGCCGGTCA----GT-TCTG	GACCCATCGACGACC----		
mung bean (<i>Vigna radiata</i>)	ITS	EU727150.1 (474)	CGCC--CGCCGCGCAGAACGGTGGG	GA--GCAACGCTCGAGACCA	GT----GCGAGCCGGTCA----GT-TCTG	GACCCATCGACGACC----		
mung bean (<i>Vigna radiata</i>)	ITS	GQ275377.1 (529)	CGCC--CGCCGCGCAGAACGGTGGG	GA--GCAACGCTCGAGACCA	GT----GCGAGCCGGTCA----GT-TCTG	GACCCATCGACGACC----		
peanut (<i>Arachis hypogaea</i>)	ITS	AF156675.2 (715)	CGCC--CGCCGCGCAGAACGGTGGG	GA--GCAACGCTCGAGACCA	GT----GCGAGCCGGTCA----GT-TCTG	GACCCATCGACGACC----		
peanut (<i>Arachis hypogaea</i>)	ITS	AY615267.1 (486)	CGCC--CGCCGCGCAGAACGGTGGG	GA--GCAACGCTCGAGACCA	GT----GCGAGCCGGTCA----GT-TCTG	GACCCATCGACGACC----		
hazelnut (<i>Corylus avellana</i>)	ITS	HQ442260.1 (552)	CGCC--CACGACATCGGTTGGT	GA--CAAACCTCGCTG--TCCGCTCGTGGC	GT----GCGAGCCGGTCA----GT-TCTG	GACCCATCGACGACC----		
hazelnut (<i>Corylus avellana</i>)	ITS	HQ442261.1 (552)	CGCC--CACGACATCGGTTGGT	GA--CAAACCTCGCTG--TCCGCTCGTGGC	GT----GCGAGCCGGTCA----GT-TCTG	GACCCATCGACGACC----		
broad bean (<i>Vicia faba</i>)	ITS	FJ212318.1 (563)	GTGC--CATGATAGATGGTGGT	GT--GTGACCCACGAG--ACCAATC	GT----GCGAGCCGGTCA----GT-TCTG	GACCCATCGACGACC----		
broad bean (<i>Vicia faba</i>)	ITS	KJ787180.1 (545)	GTGC--CATGATAGATGGTGGT	GT--GTGACCCACGAG--ACCAATC	GT----GCGAGCCGGTCA----GT-TCTG	GACCCATCGACGACC----		
pea (<i>Pisum sativum</i>)	ITS	AY143458.1 (543)	GTGC--CATGATAAATGGTGGT	GT--GTGACCCACGAG--ACCAATC	GT----GCGAGCCGGTCA----GT-TCTG	GACCCATCGACGACC----		
pea (<i>Pisum sativum</i>)	ITS	AY143486.1 (543)	GTGC--CATGATAAATGGTGGT	GT--GTGACCCACGAG--ACCAATC	GT----GCGAGCCGGTCA----GT-TCTG	GACCCATCGACGACC----		
lentil (<i>Lens culinaris</i>)	ITS	AF432169.1 (511)	GTGC--CATGATAGATGGTGGT	GT--GTGACCCACGAG--ACCAATC	GT----GCGAGCCGGTCA----GT-TCTG	GACCCATCGACGACC----		
lentil (<i>Lens culinaris</i>)	ITS	EU224452.1 (518)	GTGC--CATGATAGATGGTGGT	GT--GTGACCCACGAG--ACCAATC	GT----GCGAGCCGGTCA----GT-TCTG	GACCCATCGACGACC----		
chickpea (<i>Cicer arietinum</i>)	ITS	AY594660.1 (654)	GTGC--CATGATAGATGGTGGT	GT--GTGACCCACGAG--ACCAATC	GT----GCGAGCCGGTCA----GT-TCTG	GACCCATCGACGACC----		
chickpea (<i>Cicer arietinum</i>)	ITS	DQ312219.1 (551)	GTGC--CATGATAGATGGTGGT	GT--GTGACCCACGAG--ACCAATC	GT----GCGAGCCGGTCA----GT-TCTG	GACCCATCGACGACC----		
chickpea (<i>Cicer arietinum</i>)	ITS1	U56003.1 (215)	GTGC--CATGATAGATGGTGGT	GT--GTGACCCACGAG--ACCAATC	GT----GCGAGCCGGTCA----GT-TCTG	GACCCATCGACGACC----		
peanut (<i>Arachis hypogaea</i>)	ITS1	AJ555556.1 (203)	GTGC--CATGATAGATGGTGGT	GT--GTGACCCACGAG--ACCAATC	GT----GCGAGCCGGTCA----GT-TCTG	GACCCATCGACGACC----		
chickpea (<i>Cicer arietinum</i>)	ITS2	U56004.1 (112)	GTGC--CATGATAGATGGTGGT	GT--GTGACCCACGAG--ACCAATC	GT----GCGAGCCGGTCA----GT-TCTG	GACCCATCGACGACC----		
Andean lupine (<i>Lupinus mutabilis</i>)	ITS2	Z72197.1 (110)	CGCC--CGTGATGGATGGTGGG	CGAG--TTAAGCTCGAG--ACCGATC	GT--GCGTG--TACC	CGCCACCA--GCTTTGCGACTTTT	GACCCAT----	
blue lupine (<i>L. angustifolius</i>)	ITS1	Z72202.1 (240)	CGCC--CGTGATGGATGGTGGG	CGAG--TTAAGCTCGAG--ACCGATC	GT--GCGTG--TACC	CGCCACCA--GCTTTGCGACTTTT	GACCCAT----	
blue lupine (<i>L. angustifolius</i>)	ITS2	Z72203.1 (110)	CGCC--CGTGATGGATGGTGGG	CGAG--TTAAGCTCGAG--ACCGATC	GT--GCGTG--TACC	CGCCACCA--GCTTTGCGACTTTT	GACCCAT----	
Andean lupine (<i>Lupinus mutabilis</i>)	ITS1	Z72196.1 (240)	CGCC--CGTGATGGATGGTGGG	CGAG--TTAAGCTCGAG--ACCGATC	GT--GCGTG--TACC	CGCCACCA--GCTTTGCGACTTTT	GACCCAT----	
yellow lupine (<i>Lupinus luteus</i>)	ITS	AF007478.1 (508)	CGCC--CGTGATGGATGGTGGG	CGAG--TTAAGCTCGAG--ACCGATC	GT--GCGTG--TACC	CGCCACCA--GCTTTGCGACTTTT	GACCCAT----	
yellow lupine (<i>Lupinus luteus</i>)	ITS1	Z72206.1 (240)	CGCC--CGTGATGGATGGTGGG	CGAG--TTAAGCTCGAG--ACCGATC	GT--GCGTG--TACC	CGCCACCA--GCTTTGCGACTTTT	GACCCAT----	
yellow lupine (<i>Lupinus luteus</i>)	ITS	DQ524249.1 (509)	CGCC--CGTGATGGATGGTGGG	CGAG--TTAAGCTCGAG--ACCGATC	GT--GCGTG--TACC	CGCCACCA--GCTTTGCGACTTTT	GACCCAT----	
yellow lupine (<i>Lupinus luteus</i>)	ITS2	Z72207.1 (110)	CGCC--CGTGATGGATGGTGGG	CGAG--TTAAGCTCGAG--ACCGATC	GT--GCGTG--TACC	CGCCACCA--GCTTTGCGACTTTT	GACCCAT----	
blue lupine (<i>L. angustifolius</i>)	ITS	AF007477.1 (507)	CGCC--CGTGATGGATGGTGGG	CGAG--TTAAGCTCGAG--ACCGATC	GT--GCGTG--TACC	CGCCACCA--GCTTTGCGACTTTT	GACCCAT----	
blue lupine (<i>L. angustifolius</i>)	ITS	DQ524192.1 (507)	CGCC--CGTGATGGATGGTGGG	CGAG--TTAAGCTCGAG--ACCGATC	GT--GCGTG--TACC	CGCCACCA--GCTTTGCGACTTTT	GACCCAT----	
Andean lupine (<i>Lupinus mutabilis</i>)	ITS	AF007484.1 (509)	CGCC--CGTGATGGATGGTGGG	CGAG--TTAAGCTCGAG--ACCGATC	GT--GCGTG--TACC	CGCCACCA--GCTTTGCGACTTTT	GACCCAT----	
Andean lupine (<i>Lupinus mutabilis</i>)	ITS	DQ524264.1 (509)	CGCC--CGTGATGGATGGTGGG	CGAG--TTAAGCTCGAG--ACCGATC	GT--GCGTG--TACC	CGCCACCA--GCTTTGCGACTTTT	GACCCAT----	
white lupine (<i>Lupinus albus</i>)	ITS	AF007481.1 (508)	CGCC--CGTGATGGATGGTGGG	CGAG--TTAAGCTCGAG--ACCGATC	GT--GCGTG--TACC	CGCCACCA--GCTTTGCGACTTTT	GACCCAT----	
white lupine (<i>Lupinus albus</i>)	ITS	AY338946.1 (514)	CGCC--CGTGATGGATGGTGGG	CGAG--TTAAGCTCGAG--ACCGATC	GT--GCGTG--TACC	CGCCACCA--GCTTTGCGACTTTT	GACCCAT----	
white lupine (<i>Lupinus albus</i>)	ITS1	Z72198.1 (240)	CGCC--CGTGATGGATGGTGGG	CGAG--TTAAGCTCGAG--ACCGATC	GT--GCGTG--TACC	CGCCACCA--GCTTTGCGACTTTT	GACCCAT----	

			B3 ITS1+2		B2 ITS2		B3 ITS2	
			-CTTTGCG--TGCA		CTCCCAACGAGACCTCAGG		GCTACCCGCTGAGTTTAAGC	
			-CTTTGCG		GCAC-GCACGCTCCCAACG			
soybean (<i>Glycine max</i>)	ITS	FJ609734.1 (614)	-CTTTGCG	TGCAC	GCACGCTCCCAACGAGACCTCAGG	TCAGGCGGG	GCTACCCGCTGAGTTTAAGCATATCAATAAGCGGAGGAAAAG	
soybean (<i>Glycine max</i>)	ITS	AJ009787.1 (587)	-CTTTG	TGCAC	GCACGCTCCCAACGAGACCTCAGG	TCAGGCGGG	GCTACCCGCTGAGTTTAAGCATATCAATAA	
soybean (<i>Glycine max</i>)	ITS	AJ011337.1 (585)	-CTTTG	TGCAC	GCACGCTCCCAACGAGACCTCAGG	TCAGGCGGG	GCTACCCGCTGAGTTTAAGCATATCAATAA	
soybean (<i>Glycine max</i>)	ITS	EF517917.1 (581)	-CTTTGCG	TGCAC	GCACGCTCCCAACGAGACCTCAGG	TCA		
soybean (<i>Glycine max</i>)	ITS	L36612.1 (594)	-CTTTGCG	TGCAC	GCACGCTCCCAACGAGACCTCAGG	TCAGGCGGG	GCTACCCGCTGAG	
soybean (<i>Glycine max</i>)	ITS	FJ980442.1 (598)	-CTTTGCG	TGCAC	GCACGCTCCCAACGAGACCTCAGG	TCAGGCGGG	GCTACCCGCTGAGTTTAA	
soybean (<i>Glycine max</i>)	ITS	U60551.1 (588)	-CTTTGCG	TGCAC	GCACGCTCCCAACGAGACCTCAGG	TCAGGCGGG	GCTACCCGCTGAGTTTAAGCATATCAATAA	
buckwheat (<i>Fagopyrum esculentum</i>)	ITS	EF653685.1 (602)	-ATCGGAG	ASCCG	CGGCTCCCGACCAACCGTT			
barley (<i>Hordeum vulgare</i>)	ITS	FJ593180.1 (601)	-ATCGAACGAA	STGACGTCCG	CTTGACCCGCGACCC	CAGGTCAGGCGGG	ACTACCCGCTGAGTTTAAGCATATCAATAAGCGGAGGA	
wheat (<i>Triticum aestivum</i>)	ITS	AF440679.1 (571)	-AACAAACGA	AGCGACGTCCG	TTTGACCC			
green bean (<i>Phaseolus vulgaris</i>)	ITS	FJ172178.1 (697)	-CTCTGTGCA	AACCGAGTGTG	GCATCTACGAGACCTCAGG	TCAGGCGGG	GCTACCCGCTGAGTTTAAGCATATCAATAAGCGGAGGA	
green bean (<i>Phaseolus vulgaris</i>)	ITS	JQ974390.1 (690)	-CTCTGTGCA	AACCGAGTGTG	GCATCTACGAGACCTCAGG	TCAGGCGGG	GCTACCCGCTGAGTTTAAGCATATCAATAAGCGGAGGA	
mung bean (<i>Vigna radiata</i>)	ITS	EU727150.1 (572)	CAATAATAACA	SGCAAAGACGCTCT	TAAACGAGACCTCAGG	TCAGGCGGG	GCTAC	
mung bean (<i>Vigna radiata</i>)	ITS	GQ275377.1 (627)	CAATAATAACA	SGCAAAGACGCTCT	TAAACGAGACCTCAGG	TCAGGCGGG	GCTAC	
peanut (<i>Arachis hypogaea</i>)	ITS	AF156675.2 (801)	-GGCGA	CGTGGATCGTCCG	AGCGCTCAGG	TCAGGCGGG	GCTACCCGCTGAGTTTAAGCATATCAATAAGCGGAGGAAAAGAACTAAGC	
peanut (<i>Arachis hypogaea</i>)	ITS	AY615267.1 (572)	-GGCGA	CGTGGATCG				
hazelnut (<i>Corylus avellana</i>)	ITS	HQ442260.1 (634)	-AGCGTGG	CGCTGCGGACTCTT	CCAACGCGACCC	CAGGTCAGGCGGG	ACTACCCGCTGAATTTAA	
hazelnut (<i>Corylus avellana</i>)	ITS	HQ442261.1 (634)	-AGCGTGG	CGCTGCGGACTCTT	CCAACGCGACCC	CAGGTCAGGCGGG	ACTACCCGCTGAATTTAA	
broad bean (<i>Vicia faba</i>)	ITS	FJ212318.1 (643)	-TGCGT	TTTCAAACGCTCGTGAT	GAGACCTCAGG	TCAGGCGGG	GCTACCCGCTGAATTTAAGCATATCAATAAGCGGAGGA	
broad bean (<i>Vicia faba</i>)	ITS	KJ787180.1 (625)	-TGCGT	TTTCAAACGCTCGTGAT	GAGACCTCAGG	TCAGGCGGG	GCTACCCGCTGAATTTAAGCATATCAATAAGCGGAGGAAAAGAACTAACA	
pea (<i>Pisum sativum</i>)	ITS	AY143458.1 (623)	-TGCGT	TTTCAAACGCTCGTGAT	GAGACCTCAGG	TCAGGCGGG		
pea (<i>Pisum sativum</i>)	ITS	AY143486.1 (623)	-TGCGT	TTTCAAACGCTCGTGAT	GAGACCTCAGG	TCAGGCGGG		
lentil (<i>Lens culinaris</i>)	ITS	AF432169.1 (591)	-TGCGT	TTTCAAACGCTCGTGAT	GAGACCTCAGG	TCAGGCGGG	CTCCG	
lentil (<i>Lens culinaris</i>)	ITS	EU224452.1 (598)	-TGCGT	TTTCAAACGCTCGTGAT	GAGACCTCAGG	TCAGGCGGG	GCTACCCGCTGAATTTAAGCATATCAATAAGCGGAGGAAAAGAACTAACA	
chickpea (<i>Cicer arietinum</i>)	ITS	AY594660.1 (735)	-TGCGC	TTTCAAACGCTCGTGAT	GAGACCTCAGG	TCAGGCGGG	GCTACCCGCTGAATTTAAGCATATCAATAAGCGGAGGAAAAGAACTAACA	
chickpea (<i>Cicer arietinum</i>)	ITS	DQ312219.1 (632)	-TGCGC	TTTCAAACGCTCGTGAT	GAGACCTCAGG	TCAGGCGGG	GCTACCCGCTGAATTTAAGCATATCAATAAGCGGAGGAAAAGAACTAACA	
chickpea (<i>Cicer arietinum</i>)	ITS1	U56003.1 (215)						
peanut (<i>Arachis hypogaea</i>)	ITS1	AJ555556.1 (203)						
chickpea (<i>Cicer arietinum</i>)	ITS2	U56004.1 (193)	-TGCGC	TTTCAAACGCTCGTG				
Andean lupine (<i>Lupinus mutabilis</i>)	ITS2	Z72197.1 (194)	GGGGTCTGTTGGGCTCTTAATACGGA					
blue lupine (<i>L. angustifolius</i>)	ITS1	Z72202.1 (240)						
blue lupine (<i>L. angustifolius</i>)	ITS2	Z72203.1 (194)	GGGGTCTGTTGGGCTCTTAATACGGA					
Andean lupine (<i>Lupinus mutabilis</i>)	ITS1	Z72196.1 (240)						
yellow lupine (<i>Lupinus luteus</i>)	ITS	AF007478.1 (592)	GGGGTCTGTTGGGCTCTTAATACGGAACCTCAGG					
yellow lupine (<i>Lupinus luteus</i>)	ITS1	Z72206.1 (240)						
yellow lupine (<i>Lupinus luteus</i>)	ITS	DQ524249.1 (593)	GGGGTCTGTTGGGCTCTTAATACGGAACCTCAGG					
yellow lupine (<i>Lupinus luteus</i>)	ITS2	Z72207.1 (194)	GGGGTCTGTTGGGCTCTTAATACGGA					
blue lupine (<i>L. angustifolius</i>)	ITS	AF007477.1 (591)	GGGGTCTGTTGGGCTCTTAATACGGAACCTCAGG					
blue lupine (<i>L. angustifolius</i>)	ITS	DQ524192.1 (591)	GGGGTCTGTTGGGCTCTTAATACGGAACCTCAGG					
Andean lupine (<i>Lupinus mutabilis</i>)	ITS	AF007484.1 (593)	GGGGTCTGTTGGGCTCTTAATACGGAACCTCAGG					
Andean lupine (<i>Lupinus mutabilis</i>)	ITS	DQ524264.1 (593)	GGGGTCTGTTGGGCTCTTAATACGGAACCTCAGG					
white lupine (<i>Lupinus albus</i>)	ITS	AF007481.1 (592)	GGGGTCTGTTGGGCTCTTAATACGGAACCTCAGG					
white lupine (<i>Lupinus albus</i>)	ITS	AY338946.1 (598)	GGGGTCTGTTGGGCTCTTAATACGGAACCTCAGG			TCAGGCGGG	GCTACCCGCTGAGTTTAAGC-TATCAATAAGC	
white lupine (<i>Lupinus albus</i>)	ITS1	Z72198.1 (240)						

Figure S3. Sequence alignment of the mitochondrial genome of soybean (*Glycine max*; nucleotides 205217-205754), sequence of the open reading frame 160b (ORF160b; nucleotides 205230-205712). Red: homologous nucleotides in comparison with the reference sequence of soybean (*Glycine max*, GenBank acc. No. JX463295.1); yellow: start and end of the ORF160b of soybean (*Glycine max*, acc. No. JX463295.1); green: newly designed LAMP primers targeting the ORF160b of soybean (*Glycine max*, GenBank acc. No. JX463295.1)

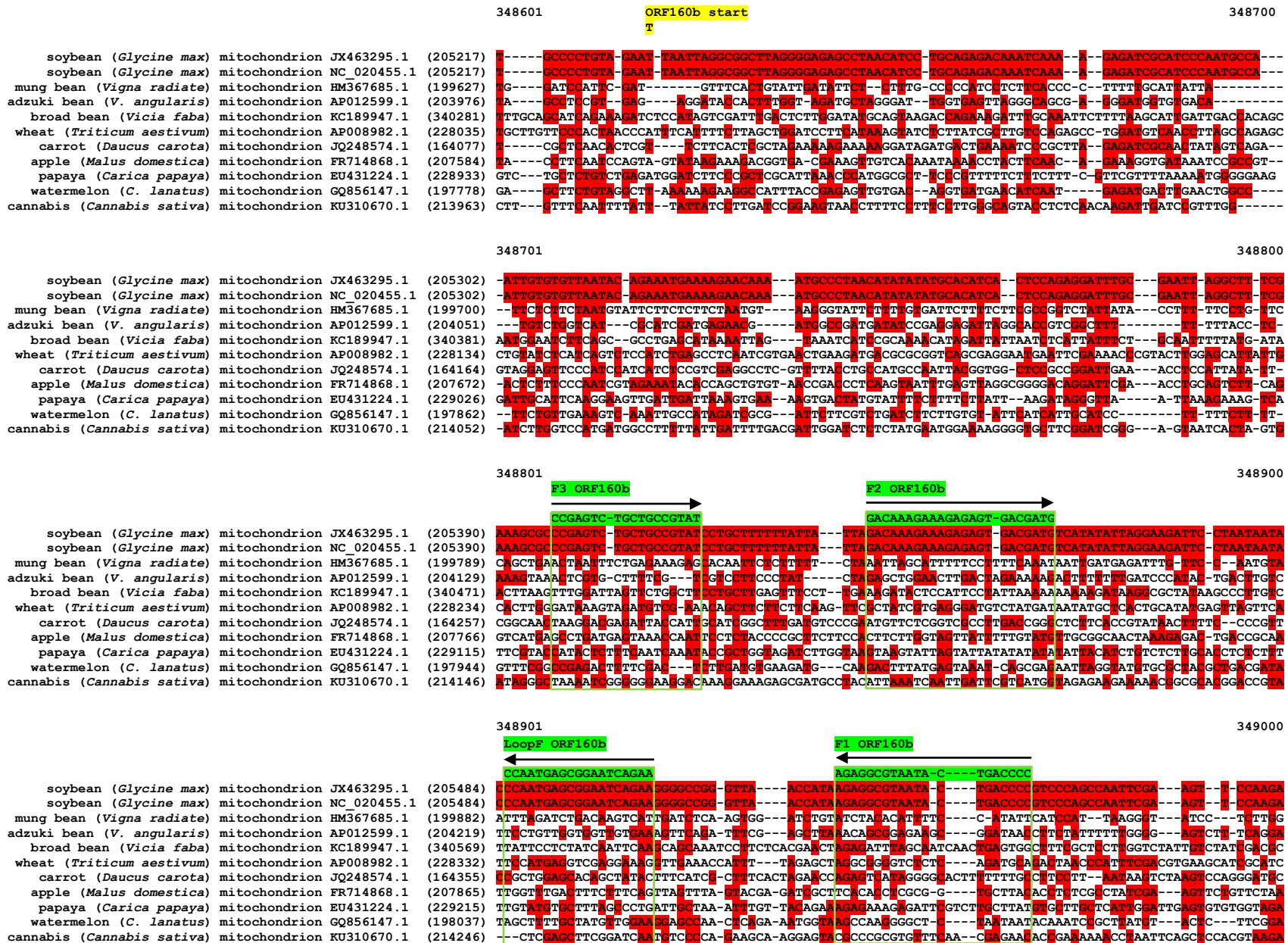


Figure 1 displays two phylogenetic trees based on the deduced amino acid sequences of ORF160b. The left tree is rooted with *Cannabis sativa* (KU310670.1) as the outgroup, and the right tree is rooted with *Cannabis sativa* (KU310670.1) as the outgroup. The scale bar represents 0.1 substitutions per site. The species names are listed on the left, and the accession numbers are listed on the right. The trees are rooted with *Cannabis sativa* (KU310670.1) as the outgroup. The scale bar represents 0.1 substitutions per site. The species names are listed on the left, and the accession numbers are listed on the right. The trees are rooted with *Cannabis sativa* (KU310670.1) as the outgroup. The scale bar represents 0.1 substitutions per site. The species names are listed on the left, and the accession numbers are listed on the right.