Table S1. List of oligonucleotides used in this study.

   a. List of oligonucleotides used for the analysis of the mRNA profiles of wild type and mutant plants by RT-qPCR experiments.

gene target	oligo name	sequence (5'-to-3')
AOX1A	aox1aF	AGCATCATGTTCCAACGACGTTTC
	aox1aR	GCTCGACATCCATATCTCCTCTGG
AOX1B	aox1bF	GGACCGTGAAATCTCTTCGATGGC
	aox1bR	TCTAGCATCATTGCTCTGCATCCG
AOX1C	aox1cF	TCTTCCAGAGGAGGTATGGTTGCC
	aox1cR	AGTGCATAAGCATCCCTCCAACC
AOX1D	aox1dF	TTTGCTCGAAGAGGCTGAGAACG
	aox1dR	CTCGTTCGTACCATTTGGGTTGTG
AOX2	aox2F	ACGGTGATTCGTGCTGATGAAGC
	aox2R	TCCTTGATTGCGAATGTCAGAAGC
NDA1	nda1F	GTATCCAACCGGCGATTTCACG
	nda1R	AGTTACAGTCTCACAATGCACCTC
NDA2	nda2F	TGGTGTTGGTCCTTCTCCTTTCG
	nda2R	TCCATTCGTCAATGCCAATCCTTC
NDB1	ndb1F	TAACACATTTGGCACTCCTGGTG
	ndb1R	CTCTGTGCATCCTCTACTTCCTTG
atp1	atp1F	TCACTTCGACACGTCTTTGC
	atp1R	GGAATGGCCTTGAATCTTGA
atp6	atp6-1F	TCTTTTGCGAGTCAATGCAC
	atp6-1R	TCTCGCGTATCTCACATTGC
atp8	atp8F	CCGTCGACTTATTGGGAAAA
	atp8R	TTCCTTGGCCATGTACAACA
atp9	atp9F	CATTCCCTCTGACGTCGAAT
	atp9R	TCGTCGATTCTTACCCTCGT
atp4	atp4F	GGATCAGCTTGCGAATTTGT
	atp4R	GCAAATTGCTTCCCCACTAA
ccmb	ccmBF	TCTTGGAATCACATCCAGCA
	ccmBR	CGAGACCGAAATTGGAAAAA
ccmc	ccmCF	AGCTACGCGCAAATTCTCAT
	ccmCR	GCCGTGGCGATATAAACAAT
ccmfc	ccmFcF	CACATGGAGGAGTGTGCATC
	ccmFcR	GTGGGTCCATGTAAATGATCG
ccmfn-1	ccmFN1F	AGCTCTTGGCATTGCTTTGT
	ccmFN1R	AGTGCCACAATCCCATTCAT
ccmfn-2	ccmFN2F	CGTGTCGTTCGTAATGGAAA
	ccmFN2R	TGATAAGCCCACCAACTTCC
cob	cobF	TGCCGGAATGGTATTTCCTA
	cobR	GCCAAAAGCAACCAAAACAT
cox1	cox1F	GTAGCTGCGGTGAAGTAGGC
	cox1R	CTGCCTGGATTCGGTATCAT
cox2	cox2F	TGATGCTGTACCTGGTCGTT

	cox2R	TGGGGGATTAATTGATTGGA
cox3	cox3F	CCGTAACTTGGGCTCATCAT
	cox3R	AAACCATGAAAGCCTGTTGC
mttb	mttBF	GGGGTCTTTCTTTGGAAACC
	mttBR	TCTCCCTCATTCCACTCGTC
nad1 exons a-b	nad1 1-2F	GACCAATAGATACTTCATAAGAGACCA
	nad1 1-2R	TTGCCATATCTTCGCTAGGTG
nad1 exons b-c	nad1 2-3F	ATTCAGCTTCCGCTTCTGG
	nad1 2-3R	TCTGCAGCTCAAATGGTCTC
nad1 exons c-d	nad1 3-4F	AAAAGAGCAGACCCCATTGA
	nad1 3-4R	TCCGTTTGATCTCCCAGAAG
nad1 exons d-e	nad1 4-5F	AGCCCGGGATCTTCTTGA
	nad1 4-5R	TCTTCAATGGGGTCTGCTC
nad2 exons a-b	nad2 exons a-bF	GCGAGCAGAAGCAAGGTTAT
	nad2 exons a-bR	GGATCCTCCCACACATGTTC
nad2 exons b-c	nad2 exons b-cF	AAAGGAACTGCAGTGATCTTGA
	nad2 exons b-cR	AATATTTGATCTTAGGTGCATTTTC
nad2 exons c-d	nad2 exons c-dF	GCGCAATAGAAAGGAATGCT
	nad2 exons c-dR	CTATGGGTCTACTGGAGCTACCC
nad2 exons d-e	nad2 exons d-eF	CAAAGGAGAGGGGTATAGCAA
	nad2 exons d-eR	TATTTGTTCTTCGCCGCTTT
nad3	nad3F	CGAATGTGGTTTCGATCCTT
	nad3R	GCACCCCTTTTCCATTCATA
nad4 exons a-b	nad4 exons a-bF	ATTCTATGTTTTTCCCGAAAGC
	nad4 exons a-bR	GAAAAACTGATATGCTGCCTTG
nad4 exons b-c	nad4 exons b-cF	AATACCCATGTTTCCCGAAG
	nad4 exons b-cR	TGCTACCTCCAATTCCCTGT
nad4 exons c-d	nad4 exons c-dF	TTCCTCCATAAATTCTCCGATT
	nad4 exons c-dR	TGAAATTTGCCATGTTGCAC
nad4L	nad4L-F	GGGGAATCCTCCTTAATAGACG
	nad4L-R	AACGAAAATGGCTAACCCAATA
nad5 exons a-b	nad5 exons a-bF	TGGACCAAGCTACTTATGGATG
	nad5 exons a-bR	CCATGGATCTCATCGGAAAT
nad5 exons b-c	nad5 exons b-cF	TACCTAAACCAATCATCATATC
	nad5 exons b-cR	CTGGCTCTCGGGAGTCTCTT
nad5 exons c-d	nad5 exons c-dF	AACTCGGATTCGGCAAGAA
	nad5 exons c-dR	GATATGATGATTGGTTTAGGTA
nad5 exons d-e	nad5 exons d-eF	AACATTGCAAAGGCATAATGA
	nad5 exons d-eR	GTTCCTGCGTTTCGGATATG
nad6	nad6F	TATGCCGGAAAGGTACGAAG
	nad6R	GTGAGTGGGTCAGTCGTCCT
nad7 exons a-b	nad7 exons a-bF	ACCTCAACATCCTGCTGCTC
	nad7 exons a-bR	AAGGTAAAGCTTGAAGATAAGTTTTGT
nad7 exons b-c	nad7 exons b-cF	GAGGGACTGAGAAATTAATAGAGTACA
	nad7 exons b-cR	TGGTACCTCGCAATTCAAAA
nad7 exons c-d	nad7 exons c-dF	ACTGTCACTGCACAGCAAGC
	nad7 exons c-dR	CATTGCACAATGATCCGAAG

nad7 exons d-e	*nad7 exons d-eF*	GATCAAAGCCGATGATCGTAA
	nad7 exons d-eR	AGGTGCTTCAACTGCGGTAT
nad9	*nad9F*	GGATGACCCTCGAAACCATA
	nad9R	CACGCATTCGTGTACAAACC
rpl2	*rpl2F*	CCGAAGACGGATCAAGGTAA
	rpl2R	CGCAATTCATCACCATTTTG
rpl5	*rpl5F*	AAGGGGTTCGACAGGAAAGT
	rpl5R	CGTATTTCGACCGGAAAATC
rpl16	*rpl16F*	GAGCATTTGCCAAACTCACA
	rpl16R	CGGACACTTTCATCGTGCTA
rps3	*rps3F*	CCGATTTCGGTAAGACTTGG
	rps3R	AGCCGAAGGTGAGTCTCGTA
rps4	*rps4F*	ACCCATCACAGAGATGCACA
	rps4R	TCACACAAACCCTTCGATGA
rps7	*rps7F*	CTCGAACTGAACGCGATGTA
	rps7R	AAGCTGCTTCAAGGATCCAA
rps12	*rps12F*	AGCCAAAGTACGGTTGAGCA
	rps12R	TTTGGGTTTTTCTGCACCAT
matR	*matR-F*	AATTTTTGCGAGAGCTGGAA
	matR-R	TTGAACCCCGTCCTGTAGAC
rrn18	*rrn18F*	CGTCACCTGGGTCAAAAACT
	rrn18R	GCTTGAAAACCGAAGTGAGC
rrn26	*rrn26F*	GACGAGACTTTCGCCTTTTG
	rrn26R	CTTGGAGCGAATTGGATGAT
rrn5	*rrn5F*	CCGACCTCGATATGTGGAATCGTC
	rrn5R	TGGACCATGTCTCCCGAACAATC
18S rRNA (nuclear)	*18S nucl-F*	AAACGGCTACCACATCCAAG
	18S nucl-R	ACTCGAAAGAGCCCGGTATT
actin2 (At3g18780, nuclear)	*actin2-F*	GGTAACATTGTGCTCAGTGGTGG
	actin2-R	AACGACCTTAATCTTCATGCTGC
GAPDH	*GAPDH-F*	TCTCGATCTCAATTTCGCAAAA
	GAPDH-R	CGAAACCGTTGATTCCGATTC

b. List of oligonucleotides used for the analysis of the splicing profiles of wild type and mutant plants by RT-qPCR experiments.

Gene	Forward primer	Reverse primer
rpl2	CCGAAGACGGATCAAGGTAA	CGCAATTCATCACCATTTTG
rpl2 intron exon2	TTAGGAAGAGCCGTACGAGG	CGCAATTCATCACCATTTTG
rps3	AGCCGAAGGTGAGTCTCGTA	CCGATTTCGGTAAGACTTGG
rps3 intron1 exon2	AGCCGAAGGTGAGTCTCGTA	TCTACGGCGGGGTCACTAT
cox2	TGGGGGATTAATTGATTGGA	TGATGCTGTACCTGGTCGTT
cox2 intron1 exon2	TGGGGGATTAATTGATTGGA	AGCAGTACGAGCTGAAAGGC
ccmFc	GTGGGTCCATGTAAATGATCG	CACATGGAGGAGTGTGCATC
ccmFc intron1 exon1	CCCGGATCGAATCAGAGTT	CACATGGAGGAGTGTGCATC
nad1 exon1-2	GACCAATAGATACTTCATAAGAGACCA	TTGCCATATCTTCGCTAGGTG
nad1 intron1 exon2	GACCAATAGATACTTCATAAGAGACCA	CGTGCTCGTACGGTTCATAG
nad1 exon2-3	ATTCAGCTTCCGCTTCTGG	TCTGCAGCTCAAATGGTCTC

nad1 intron2 exon2	GGTTGGGTTAGGGGAACATC	TCTGCAGCTCAAATGGTCTC
nad1 exon3-4	AAAAGAGCAGACCCCATTGA	TCCGTTTGATCTCCCAGAAG
nad1 intron3 exon4	AAAAGAGCAGACCCCATTGA	GGGAGCTGTATGAGCGGTAA
nad1 exon4-5	AGCCCGGGATCTTCTTGA	TCTTCAATGGGGTCTGCTC
nad1 intron4 exon5	AGCCCGGGATCTTCTTGA	ACGGAGCTGCATCCCTACT
nad2 exon1-2	GCGAGCAGAAGCAAGGTTAT	GGATCCTCCCACACATGTTC
nad2 intron1 exon2	GCGAGCAGAAGCAAGGTTAT	CCCATTCCTAACCAGTGGAG
nad2 exon2-3	AAAGGAACTGCAGTGATCTTGA	AATATTTGATCTTAGGTGCATTTTC
nad2 intron2 exon2	CCCGATCCGATAGTTTACAA	AATATTTGATCTTAGGTGCATTTTC
nad2 exon3-4	GCGCAATAGAAAGGAATGCT	CTATGGGTCTACTGGAGCTACCC
nad2 intron3 exon4	GCGCAATAGAAAGGAATGCT	GGCGAATTTCAAACTTGTGG
nad2 exon4-5	CAAAGGAGAGGGGTATAGCAA	TATTTGTTCTTCGCCGCTTT
nad2 intron4exon4	CTTATTCGTGGCAACCTTCC	TATTTGTTCTTCGCCGCTTT
nad4 exon1-2	ATTCTATGTTTTTCCCGAAAGC	GAAAAACTGATATGCTGCCTTG
nad4 intron1 exon2	CCGTATGATGCGGAAGTCTC	GAAAAACTGATATGCTGCCTTG
nad4 exon2-3	AATACCCATGTTTCCCGAAG	TGCTACCTCCAATTCCCTGT
nad4 intron2 exon3	GCGGAACGACCAGAAAAATA	TGCTACCTCCAATTCCCTGT
nad4 exon3-4	TTCCTCCATAAATTCTCCGATT	TGAAATTTGCCATGTTGCAC
nad4 intron3 exon4	TCTAGCTTGGTTCGGAGAGC	TGAAATTTGCCATGTTGCAC
nad5 exon1-2	TGGACCAAGCTACTTATGGATG	CCATGGATCTCATCGGAAAT
nad5 intron1 exon2	TGGACCAAGCTACTTATGGATG	TTCGCAAATAGGTCCGACT
nad5 exon2-3	TACCTAAACCAATCATCATATC	CTGGCTCTCGGGAGTCTCTT
nad5 intron2-exon2	GTACGATCGTGTCGGGTGA	CTGGCTCTCGGGAGTCTCTT
nad5 exon3-4	AACTCGGATTCGGCAAGAA	GATATGATGATTGGTTTAGGTA
nad5 intron3-exon4	AACTCGGATTCGGCAAGAA	GCCGTGTAATAGGCGACCA
nad5 exon4-5	AACATTGCAAAGGCATAATGA	GTTCCTGCGTTTCGGATATG
nad5 intron4 exon5	AACATTGCAAAGGCATAATGA	CCTGTAAACCCCCATGATGT
nad7 exon1-2	ACCTCAACATCCTGCTGCTC	AAGGTAAAGCTTGAAGATAAGTTTTGT
nad7 intron1 exon2	ACGGTTTTTAGGGGGATCTG	AAGGTAAAGCTTGAAGATAAGTTTTGT
nad7 exon2-3	GAGGGACTGAGAAATTAATAGAGTACA	TGGTACCTCGCAATTCAAAA
nad7 intron2 exon3	AGTGGGAGAGCCGTGTTATG	TGGTACCTCGCAATTCAAAA
nad7 exon3-4	ACTGTCACTGCACAGCAAGC	CATTGCACAATGATCCGAAG
nad7 intron3 exon4	TAAAGTGAAGTGGTGGGCCT	CATTGCACAATGATCCGAAG
nad7 exon4-5	GATCAAAGCCGATGATCGTAA	AGGTGCTTCAACTGCGGTAT
nad7 intron4 exon5	CGGCCAAATGACTACAGGAT	AGGTGCTTCAACTGCGGTAT

c. List of oligonucleotides used for the analysis of the splicing profiles of wild type and mutant plants by RT-qPCR experiments.

Gene	Forward primer	Reverse primer
misf2 (AT3G22670)	ATGCTCACTAAGCTTAGGATTA	ATTATAAGTATGACCTGAATGCA
misf2.1 (SALK_067654)	ATTTTGCCGATTTCGGAAC	ATTATAAGTATGACCTGAATGCA
misf2.2 (SALK_066141)	ATTTTGCCGATTTCGGAAC	ATTATAAGTATGACCTGAATGCA
misf2-GFP *(misf2*-B1+ *misf2*-B2	GGGGACAAGTTTGTACAAAAAAGC AGGCTAAAATGCTCACTAAGCTTAG GATTAGT	GGGGACCACTTTGTACAAGAAAG CTGGGTCAAGCGTAACAAGCTTA GATTCTTC