

**S1 Table. List of primers used in gene expression studies, GFP localizations analyses and mutant plants screening.**

Target gene	oligo name	oligonucleotide sequence (5'-to-3')
<i>mterf22</i> (At5g64950)	<i>mterf22F</i>	ATCCAGCGTTCGTCGAGTTT
	<i>mterf22R</i>	AGCAAGCTGAGACCCAACAA
<i>mterf22</i> GFP-localization assay	<i>NcoInewF</i>	CAAGATCCATGGTACAATTTCTAGCTTCTCTCGTTT
	<i>BamHInewR</i>	GATATAGGATCCCGAACATCATTTCGAGGATGGA
	<i>Sat6-EcorIF</i>	ACATAGGAATTCTTCCCAGTCACGACGTTGTA
	<i>Sat6-SmaIR</i>	ACATAGCCCAGGCGAGCTATGACCATGATTACTG
T-DNA screening	<i>mterf22.1R</i>	AGCAAGCTGAGACCCAACAA
	<i>mterf22.2F</i>	GTTTGGTCGGAGATGGGAT
	<i>mterf22.3R</i>	GAGAGACGAACTTACCAAGA
	<i>Lbb1.3</i> (SALK)	ATTTTGCCGATTCGGAAC
	<i>LB3</i> (SAIL)	GCCTTTTCAGAAAATGGATAAATAGCCTTGCTTCC
<i>actin2</i> (AT3G18780)	<i>actin2-F</i>	GGTAACATTGTGCTCAGTGGTGG
	<i>actin2-R</i>	AACGACCTTAATCTTCATGCTGC
<i>mTERF7</i> (At5g07900)	<i>mterf7-F</i>	AGGATTATCCCGAGGTGTTCCGG
	<i>mterf7-R</i>	ATCCTCTTTCACAAGCCCGTTTCG
<i>mTERF22</i> (At5g07900)	<i>mterf22-F</i>	TGTCTCTCGTGCTTTGGATCTTGG
	<i>mterf22-R</i>	AACAGCGTGCACAAGCATCCTC
<i>mTERF27</i> (At5g07900)	<i>mterf27-F</i>	ACCATGGCTTCACCAATGACCAG
	<i>mterf27-R</i>	TACATCTTCCGGGCTCAGTGAC
<i>AOX2</i> (At5g64210)	<i>AOX2-F</i>	ACGGTGATTCTGTGCTGATGAAGC
	<i>AOX2-R</i>	TCCTTGATTGCGAATGTCAGAAGC
<i>AOX1A</i> (At3g22370)	<i>AOX1A -F</i>	AGCATCATGTTCCAACGACGTTTC
	<i>AOX1A -R</i>	GCTCGACATCCATATCTCCTCTGG
<i>AOX1B</i> (At3g22360)	<i>AOX1B -F</i>	GGACCGTGAAATCTCTTCGATGGC
	<i>AOX1B -R</i>	TCTAGCATCATTGCTCTGCATCCG
<i>AOX1C</i> (At3g27620)	<i>AOX1C -F</i>	TCTCCAGAGGAGGTATGGTTGCC
	<i>AOX1C -R</i>	AGTGCATAAGCATCCCTCCAACC
<i>AOX1D</i> (At1g32350)	<i>AOX1D -F</i>	TTTGCTCGAAGAGGCTGAGAACG
	<i>AOX1D -R</i>	CTCGTTTCGTACCATTTGGGTTGTG
<i>NDA1</i> (At1g07180)	<i>NDA1 -F</i>	GTATCCAACCGGCGATTCACG
	<i>NDA1 -R</i>	AGTTACAGTCTCAATGCACCTC
<i>NDA2</i> (At2g29990)	<i>NDA2 -F</i>	TGGTGTGGTCCCTCTCCTTTCG
	<i>NDA2 -R</i>	TCCATTCTGCAATGCCAATCCTTC
<i>NDB1</i> (At4g28220)	<i>NDB1 -F</i>	TAACACATTTGGCACTCCTGGTG
	<i>NDB1 -R</i>	CTCTGTGCATCCTCTACTTCCTTG
<i>NDB2</i> (At4g05020)	<i>NDB2 -F</i>	AGGAGGAGAGGTTTCCCTCGATTC
	<i>NDB2 -R</i>	CAGAGCTCGTCTATTACCCTGACC
<i>NDB3</i> (At4g21490)	<i>NDB3 -F</i>	TCCAGGAGACTGGGTTTCGATAGG
	<i>NDB3 -R</i>	GCCAGCTCACTTGCTTACTAGC
<i>NDB4</i> (At2g20800)	<i>NDB4 -F</i>	GTGGTCAACAGGAATTGGTTACAG
	<i>NDB4 -R</i>	AAGACACGTCTCTGTCCCTGAC
<i>NDC1</i> (At5g08740)	<i>NDC1 -F</i>	CGAGAGCAGTGACAAACAACAGTG
	<i>NDC1 -R</i>	AATGCACACCCTTGGCCTCTTG