

Supplementary Table S1: Nucleotide sequences designed and synthesized for the RNAi

cassettes of each target gene and the modified pAN-7 transformation vector. Annealing sites for PCR primers are indicated.

Sequence name and length (bp)	Nucleotide sequence, forward primer annealing site (<u>underline</u>) for target genes and both forward and reverse annealing sites (bold) in the pAN7 transformation vector
CYP52P6 RNAi Cassette (1,011)	ACTAGTATCTCTCTGGCCGGAAGTCATCGGCATCCTCGCCATAGAGATCCTTGCGGCATGCATGGCATACACGCAGTAGCC GACACCCTCGCCTTTGTGTACAAGCACGGGAGACTTGCCATCTGGACCGCCGCCAACAGGCAGGACCGTATCACGCATAGCC TCGCGCGAGTTGACCGGGACGGAGGGGTACAGACGCAGGACTTCTTTGATGACACAGTGAGGTTAGTCATGTTCTTGAGC TGGGTCTTGGTAGGAGGATCGGCAGCGGGACCAACGCCACATACACTCTCGACCTCCTTGCGCAGACGAGCCAGGACGTGT TGGTGGCGTGCAAGAAGACGGAAGGTCCAGCCAAGACAACAGCCGGTGGTATCTCTGCCAGCAAGCAGCACGTTGAGTGC CTGATCGCGCAACACAGTACGGTCTTGTGTCAAACGGGCTAGGATCTTGATAAACACATCGTGATCTTCATCATCGACAGTC GCCTCTGCAATTTTGGCAGAAGCAGCAGCGCTTTGCCAAAGTTGGGGCCGAGCGACTTGTCATAGCCGACTCGACAAACG TATGGCATGTCCGGCACGCATCCCGAAATTCCTTGCTACTCAACGTGCTGCTTGGCAGAGATACCACCGGCTGTTGTCTT GGCTGGACCTTCCGTCTTCTTGACGCCACCAACACGTCCTGGCTCGTCTGCGCAAGGAGGTCGAGAGTGTATGTGGCGTTG GTCCCGCTGCCGATCCTCTACCAAGACCCAGCTCAAGAACATGCACTACCTCCACTGTGTCATCAAAGAAGTCTGCGTCTG TACCCCTCCGTCCCGGTCAACTCGCGCGAGGCTATGCGTGATACGGTCTGCCTGTTGGCGGCGGTCCAGATGGCAAGTCTC CCGTGCTTGTACAAAAGCGAGGGGTGTCGGCTACTGCGTGTATGCCATGCATCGCCGCA <u>AGGATCTCTATGGCGAGGATG</u> <u>CGATGACTTCCGGCCAGAGATGGTACC</u>
AmtA RNAi cassette (1,022)	ACTAGTCCTTCTCTGCGGCCAAAGGCCATGGCCATGCCGATGCCGTGCATGCCGACGACACCGTGTGCACGACGTGGGA GTCGCGCGGGCCAGACCACCGGCTCCGTGGCGATCGGCCGAGTCCATGGAGCCGGTCTCGCCGTGGGCTCGTTGAGCAC CTCGCGCGTCAGCTCGACATAGTCGTAGGCAAACTCGCCAATCTCGCTGTCGTCGATGCCAGGATCTCGGCCTTTCGCTGG CGCGCAGATGCAGGCCGGGATCATGTTTCATCACAACAGGATCAGGGTGGTGCCGACAAACGAGTAGCAGCCGCCGCTG AAGGAATCGGCCAGCTGGATGCCAGCTGGGCCAGTGGTGGTTGAGCCAGCCGCCCTGGATGACCTGGACACCGTCGAG GTGGGCAATGTAGTCGGCCGCAAGAAGGCTGTGCAAAATGTTGCCGACGAGGCCGCCAATGGCGTGACACGGCGAAAATGT CGAGGGCGTCGTCGATGCGCAGCAGGAACCTGAGCTTGGTGATAGTTGGCAAATGAGGCGCCGAGCAGCCATAGGGC ACGGCGGCCAAGCGGGCACGTAGCCAGAACCAGGCGTGATAGCGACGAGGCCGACGGTGTCCAGGTCATCCAGGGCGGC TGGCTCAACCACCACTGGGCCAGCTGGGCATCCAGCTGGCCGATTCTTCAGCGGCGGCTGCTACTCGTTTGTGGCACCA CCCTGATCCTGTTGTGATGAACATGATCCCCGCCTGCATCTGCGCGCAGCGAAGAGGCCGAGATCCTGGGCATCGACGA CAGCGAGATTGGCGAGTTTGCCTACGACTATGTGAGCTGACGCGCAGGTGCTCAACGAGGCCGACGGCGAGACCGGCT CCATGGACTCGGCCGATGCCACGGAGCCGGTGGTCTGGGCCCGCGC <u>ACTCCACGTCGTGCAC</u> CGGTGTCGTCGGGCA TGCACGGCATCGGCATGGCCATGGCCTTTGGCGCGCAGGAGAAGGGGTACC

Mad1 RNAi cassette (1,087)	ACTAGTGGAACCGAGACCGTAGCAGAGCTGGTAGGCACCGAGGCGGGACGGTGGGGACCGACGAGACGACGACGGGAA CCGAGACACTGCCGTAAGGGACCGAGGCGTAGCCAGTGGGGACCGACGAGATGGCAGGGACCGACGAGGACTTGGTGGC GGGGCTGGTAGGGTGGTCTCGACGGTGGTGGCGGTAGAGGTGGAGGAACTGCAGCCGAAAGAAACGGTAGAGACGGA AACGCTGCAGGTAGTGCTCTTGGGGTGCTTGGGCTGCTTAGGGTAGACAATGGTGACGCCTTGGCACCACCGCACTTGTCG TTCTTAATGACGCTGCCCTTGCTGGAGCAGGAGCTGGTCTGCTTGACGGTAGAGCCATGCCCATGTCGTAGTGGAACCTGA GGTCGCAGTCGAACTCGGTGGTGATGTGGAACTCGGTCACGGAGAAGGAGTCGACGCTCTTGGAGTCCTTGAGGAGAAC GAGGGGGACTTGTCGGCATCGACGTGGGAGACACCGGGCGTATTTGCTGCCGTAGCTGCCCGGTAGCTGCCGCCGTAG CTGCCCGCTGCTGCCACCGTAGCTGCCACCGCTGTTGTCATCGCCGTAGCTGCCACCGTAGCTTCCACCGTAGCTGCCGTC TCCGTGACCGAGTTCCACATCACCACCGAGTTCGACTGCGACCTCGAGTTCCTACTACGACATGGGCGATGGCTCTACCTGCA AGCAGACCAGCTCTGCTCCAGCAAGGGCAGCGTCATTAAGAACGACAAGTGGGTGGTCCCAAGGCGTGCAACATTGTCT ACCCTAAGCAGCCCAAGCACCCCAAGAGCACTACCTGCAGCGTTCCGTCTCTACCGTTTCTTTCGGCTGCAGTTCCTCCACCT CTACCGCCACCGTCGAGACCACCCCTACCAGCCCCGCCACCAAGTCTCGTCGGTCCCTGCCATCTCGTCGGTCCCCACT GGGTACGCTCGGTCC <u>TTACGGCAGTGTCTCGGTTCC</u> CGTCGTCTCGTCGGTCCCCACCGTCCCCGCTCGGTGCCTAC CAGCTCTGCTACGGTCTCGGTTCCGGTACC
Hex1 RNAi cassette (1,010)	ACTAGTACGGGATAGTGACAGTGTTGGCGGGAGTCTCAGACTCGCGGCGAAGCCGCGCAAGGGGTGCTGGCGCGGACA GGCTCGCGGTACTCAGCGACCTCGTTGGAGGGCTCGCGGGCATCCTCGTCGTAGTAACCCATCTTGTTGGATTGCGGGAAA TGGTTGAAGGGGCGATGATTTCTTGGGTGACCTTAGTCTTGCTGAAAGTGTGCCCTGGGACGGACAACAGGAATGTCGA TGGTGGTGTCTGGTACGATGACTGTTGCGACTGCTCAGCGAAGCGGCCGGTATCAACAGTGGATTGAAAGAACTAGCTT CCTCACGGTAGTGGGCTTGAAACGTTTGCGGTATTGCGCTCGGCAACGTCAATTGCAGAGTCGTGGCTGGAGCGACGGG ACTCAAAGTCTACAGAGGCCTCAAAGGTCGTGTGAGGACGGTTTTACGAATAAATTCTTGGCGGACACCAGGACGGTAGC GTTCTCTTACGAGTGATGCGAACCTCTTCTCCCGTAAGGGTAGCTGATGATGTTGGACTCGTTGGCAACGTGAGAAGA GTATTGACCTTCCGTCCGGGCCGTTGTTGGTGATGAGGTAGCTGTCCAGCCACGACTCTGCAATTGACGTTGCCGAGCGCG AATACCGCAAACGTTTCAAGCCAGCTACCGTGAGGAAGCTAGTTCTTTCGAATCCACTGTTGATACCGGCCGCTTCGCTGAG CAGTCCGAACAGTCATCGTACCAGGACACCACATCGACATTCCTGTTGTCGTCCCCAGGGCAGCACTTTCAGCAAGACTAA GGTCACCCAAGAAATCATCGCCCTTCAACCATTTCGCGAAATCCAACA <u>AGATGGGTTACTACGACGAGGAT</u> GCCCCGCGAG CCCTCCAACGAGGTCGCTGAGTACCGCGAGCCTGTCCGCGCCAGCAGCCCTTCGCGGGCGTTCCGCCGAGTCTGAGACTC CGCCAACTGTCACTATCCCGTGGTACC
CYP570AA4 RNAi cassette (1,041)	ACTAGTCGCACGTTTCATGTCGCTCTGAATAAAGATGCAGCGTTGAAGGATTTCCACGGGTGGGCAGGGTCGACGAGAACA ATATCAAAGCGGCGCAGCAGCTCGACATAGGCTTTGTTAAGTTCAATCATGGCAATATTCTTCCAAGACACTCGTAGCGGCT ACCACCACCAAAGTCAAGCATGACCGTGTGTCATCAGCTTGATCCGCTCAGTGGGAATGTCCATCCAGCGATCTGGGCGG AACAGGTTGGCATCTTACCAAAGATAGTCTTGTGCGCATAACGGGCCATGGTGCCAGGCGACAGACGTACCAGCAGGC ACGCGGTAGCCACAAATTCGTATCAGTCTTTGAGACCTTAGGAAGAAGACCGGTGGCAGGTGGCCACATGCGGAGACCT TCGCGGATAACAGCTTGAAGAAAGGGGAACTGGCAGCTTCGGCATCGGTAATCGGCGAGCTGATGCGGCCAGCACGGAT

	<p>ACCCTCATCGATTTCCTTTGCAAGGTGCACATAAACGTGTGGGTTTGAATGAGGTAGAGCAAGGTTGAACGTATGGCCGTG</p> <p>GCTGATGTGTCGGAGCCAGCAATAATCTGGACGACGGCCCTTTCTCAAGCTGTTATCCGCGAAGGTCTCCGCATGTGGCCA</p> <p>CCTGCCACCGGTCTTCTTCTAAGGTCTAAAGACTGATGACGAAATTTGTGGCTACCGCGTGCCTGCTGGTACGTCTGTGCG</p> <p>CTGGGCACCATGGCCGTTATGCGCAACAAGACTATCTTTGGTGAAGATGCCAACCTGTTCCGCCAGATCGCTGGATGGAC</p> <p>ATTCCCACTGAGCGGTACAAGCTGATGGACAACACGGTCATGCTTGACTTTGGTGGTGGTAGCCGTACGAGTGTCTTGGA</p> <p>AGAATATTGCCATGATTGAACCTAACAAGACCTATGTCGAGCTGCT<u>GCGCCGCTTTGATATTGTTCTCGTCGACCTGCCAC</u></p> <p>CCGTGGAAATCCTTCAACGCTGCATTCTTTATTAGAGCGACATGAACGTGCGGGTACC</p>
<p>Cox2 RNAi cassette</p> <p>(1,021)</p>	<p>ACTAGTCAAAGACTTTGCGAAGTGCTTGTAGCTTTTATCAATTGCATCTTTGGGATAAAGCTCATCCATGAAGGAAGGACG</p> <p>CTGGACATTTGCATCGTTATGTTGATGGCGTCGTTGAACCTGAGGAATATGTCTACAAGCTCGGGATGGTCGTATGCATCGG</p> <p>CACCGAGCATGCAACGCGCGCTGACAGTCGTGCTGAATTTGTCCATATAGCCGCTCAATGTCTCGTGGGTGGCAGAAGTCAT</p> <p>GCCTGTGCGGAACAGTGGGTTGTTGGCAAGAAAGTGCTTGGCGCGGCTTCCATAGTGTGCCGAAAGCGCGAATGTTGGC</p> <p>TGGGTGCGCGAGGTGTGTCGGAGTAGAGTTGCGTGAAGGTTGGTGGAAATGTTTCTTCCGAGGAAGATGGGTGCTCC</p> <p>GAGAATCTCAAAGAACTGGTCAATGTTAAAGTAGACTTGGTATGGGTTGTATCCTGCATCATCTGGAGATCGTGGGGTG</p> <p>GGACAGAACGTAATGGGTCTGTGGTCCGAGATGAATGCCAAAAGCCCTGGATGGACTGTTGCGGTTTCCAGCAGCTGAAA</p> <p>TCCTTGACAAGAACAGACTTGGCGTCTTGCTGAAAGGCCCGAGCACCCATCTTCTCGGAAAGGAAACATTTCCACCAAC</p> <p>CTTCACGCAACTCTACTCCGACACACCTCGGCGACCCAGCCAACATTCGCGCTTTCGGCAGCACTATGGAAGCCGCCCA</p> <p>AGCACTTTCTGCCAACAACCCACTGGTTCGACAGGCATGACTTCTGCCACCCACGAGACATTGAGCGGTATATGGACAA</p> <p>ATTAGCAGCACTGTGAGCGCGCTTGATGCTCGGTGCCGATGCATACGACCATCCCGAGCTTGTAGACATATTCCTCAAGT</p> <p><u>TCAACGACGCATCAACATAACGATGCAAATGTCCAGCGTCCTTCTTCATGGATGAGCTTTATCCCAAAGATGCAAATTGAT</u></p> <p>AAAAGCTACAAGGCATTCGCAAAGTCTTTGGGTACC</p>
<p>pAN7-1 transformation</p> <p>vector</p> <p>(3,024)</p>	<p>GGATCCGGGGTTTAACGGTCCCATGTCAACAAGAATAAAACGCGTTTTTCGGGTTTACCTCTTCCAGATACAGCTCATCTGCA</p> <p>ATGCATTAATGCATTGACTGCAACCTAGTAACGCCTTCAGGCTCCGGCGAAGAGAAGAATAGCTTAGCAGAGCTATTTTCAT</p> <p>TTTCGGGAGACGAGATCAAGCAGATCAACGGTCGTCAAGAGACCTACGAGACTGAGGAATCCGCTCTTGGCTCCACGCGAC</p> <p>TATATATTTGTCTAATTGTACTTTGACATGCTCCTCTTCTTACTCTGATAGCTTGACTATGAAAATTCGTCACCGCCCTG</p> <p>GGTTCGCAAAGATAATTGCATGTTTCTTCTTGAACCTCAAGCCTACAGATCTGGGGTAAGAAGCGTGAAAGAGAAGAGCA</p> <p>GAAGCGTAGAAGGGTAGAAGAGTGAAAGAGAAGAACAAGAAAGAGTAGAAGAGTAAAAAAGAAGAATA</p> <p>GAAGACAGACACTTGTTATCGAGGCTATCTGATAACTTTGATCATGAGCTTTTCGATGAGATCTAGTCCACAACGGCAGCAA</p> <p>CACCTACTCAGTAGCATAATTTATGATAATTTGGCGAGCAATAGAGCCTGTACAGTCAGTTGTCTCGCGAGCCAAGGTTGCTA</p> <p>TCTTCCACTTTATGCGTAATTTATTTCTCAAATGATCCTCAGTCTTCCCTTTATTCTTGGGCACGGCGAAACCGACAGT</p> <p>CGAAAGAACTGGCATAAGTAAGTAATTATGCAAACGACAAGCAGTGCAAATAGCAGAAACACCAAGGTCGGGGAATT</p> <p>GGAGCATGGCATCTCAGTATCAGGTCAATTCGAACGTGCTCTGGCCGGCCTATTAGAAAAGTGCTGCCACTCAAG</p> <p>CCACTCACAGGGAAGGGCCGCCGACGAGGTGAGATATGAGGGGAATAATTGATGCAGCGCAGGCTAGTATTATCTTATTA</p> <p>TTCTATATTGTGCTCCGCTATGCCTGCATTATTTGCTCCTCCTTCTTGATTGCTGCTATTGACAAAGCCCAAGCAAGACACGT</p>

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