

Table S1. *C. auris* strains and primers used in this study

Strains used in this study			
Strain	Genotype	Parent	Reference
B8441	Wild-type		(1)
YSBA4	<i>bcy1Δ::NAT</i>	B8441	(2)
YSBA21	<i>cyr1Δ::NAT</i>	B8441	(2)
YSBA24	<i>tpk2Δ::NAT tpk1Δ::HYG</i>	YSBA17	(2)
YSBA39	<i>gpa2Δ::NAT</i>	B8441	This study
YSBA40	<i>gpa2Δ::NAT</i>	B8441	This study
YSBA41	<i>ras1Δ::NAT</i>	B8441	This study
YSBA42	<i>ras1Δ::NAT</i>	B8441	This study
YSBA46	<i>gpr1Δ::NAT</i>	B8441	This study
YSBA47	<i>gpr1Δ::NAT</i>	B8441	This study
YSBA50	<i>ras1Δ+RAS1-HYG</i>	YSBA42	This study
YSBA53	<i>gpa2Δ+GPA2-HYG</i>	YSBA39	This study
YSBA55	<i>pde1Δ::NAT</i>	B8441	This study
YSBA56	<i>pde1Δ::NAT</i>	B8441	This study
YSBA57	<i>gpr1Δ::GPR1-HYG</i>	B8441	This study
YSBA59	<i>pde2Δ::NAT</i>	B8441	This study
YSBA60	<i>pde2Δ::NAT</i>	B8441	This study
YSBA61	<i>cdc25Δ::NAT</i>	B8441	This study
YSBA62	<i>cdc25Δ::NAT</i>	B8441	This study
YSBA63	<i>ira2Δ::NAT</i>	B8441	This study
YSBA64	<i>ira2Δ::NAT</i>	B8441	This study
YSBA66	<i>pde1Δ::PDE1-HYG</i>	B8441	This study
YSBA68	<i>gpa2Δ::NAT ras1Δ::HYG</i>	YSBA39	This study
YSBA69	<i>gpa2Δ::NAT ras1Δ::HYG</i>	YSBA39	This study
YSBA70	<i>pde2Δ::NAT pde1Δ::HYG</i>	YSBA59	This study
YSBA71	<i>pde2Δ::NAT pde1Δ::HYG</i>	YSBA59	This study
YSBA93	<i>cdc25Δ+CDC25-HYG</i>	YSBA61	This study
YSBA95	<i>pde2Δ::PDE2-HYG</i>	YSBA70	This study
YSBA140	<i>ira2Δ::IRA2-HYG</i>	YSBA63	This study
YSBA162	<i>P_{TEF1}:BCY1::NEO pde2Δ::NAT pde1Δ::HYG</i>	YSBA70	This study

Primers used in this study

Name	Primer description	Sequence (5' to 3')
B13593	<i>RAS1</i> 5'-flanking region primer L1	GTGACGAGTGTGGCGAAG
B13594	<i>RAS1</i> 5'-flanking region primer L2	TTCAGATCCACTAGTTCTAGAACTTATACTCTTTAACAT
B13595	<i>RAS1</i> 3'-flanking region primer R1	TTCCAGAAATTCCTTCTTAGGTGTTGTGTGATTGTGTAG
B13596	<i>RAS1</i> 3'-flanking region primer R2	AAATGCGACAAACAAGAAAA
B13597	<i>RAS1</i> 5'-screening primer SO	TGATGGAGATTCGTGTAAGA
B13598	<i>RAS1</i> 3'-screening primer SO2	TCTACCAGAGAAATATTTTT
B13599	<i>RAS1</i> Southern blot probe primer PO	TCATGTAAGTCTCTCATG
B13993	<i>RAS1</i> Internal screening primer LP	GAGGGTCAAAGATTCCGACA
B13994	<i>RAS1</i> Internal screening primer RP	TGTCTTGTGTTGCCACCAT
B13646	<i>GPA2</i> 5'-flanking region primer L1	GTTTTGTCTACTTTCATCAT
B13647	<i>GPA2</i> 5'-flanking region primer L2	TTCAGATCCACTAGTTCTAGCTGGGTTTGAGGGAGGGTCT
B13648	<i>GPA2</i> 3'-flanking region primer R1	TTCCAGAAATTCCTTACCTTGAGAGACAGTGGCATA
B13649	<i>GPA2</i> 3'-flanking region primer R2	GTTCCACTGAGAGCTCTTC
B13650	<i>GPA2</i> 5'-screening primer SO	GTCCTTACGTCCCTCATAT
B13651	<i>GPA2</i> 3'-screening primer SO2	TTAAGATTCAGGATGGGACA
B13652	<i>GPA2</i> Southern blot probe primer PO	CTTTTTCCAGCCAGTGAC
B13988	<i>GPA2</i> Internal screening primer LP	AAATGTGTTGGATTGCGTCA
B13989	<i>GPA2</i> Internal screening primer RP	TTTGAAACGGAAATCGAAG
B13586	<i>GPR1</i> 5'-flanking region primer L1	ATCAATTAAGCGAAAAGTA
B13587	<i>GPR1</i> 5'-flanking region primer L2	TTCAGATCCACTAGTTCTAGTTGTAGTTGGGACGAGACAT
B13588	<i>GPR1</i> 3'-flanking region primer R1	TTCCAGAAATTCCTTATTTTACGAGACGGTCATTGA
B13589	<i>GPR1</i> 3'-flanking region primer R2	TCCCAGCTGAGCCAGCCTA
B13590	<i>GPR1</i> 5'-screening primer SO	TTGCTTTATATACTGGATGT
B13591	<i>GPR1</i> 3'-screening primer SO2	TCTCAAACACTATGATGCC
B13592	<i>GPR1</i> Southern blot probe primer PO	GGTGACGAAACACGAGCCTT
B13991	<i>GPR1</i> Internal screening primer LP	GACTCTAATGGCACCCCTGA
B13992	<i>GPR1</i> Internal screening primer RP	ACGCTCTACCAATGCTACC
B15075	<i>CDC25</i> 5'-flanking region primer L1	CAATTCGATAATGCGGTCTT
B15076	<i>CDC25</i> 5'-flanking region primer L2	TTCAGATCCACTAGTTCTAGCGCAGCATCTCTCCGTTACT
B15077	<i>CDC25</i> 3'-flanking region primer R1	TTCCAGAAATTCCTTAAATCAGTGGACCGCAGTTCT
B15078	<i>CDC25</i> 3'-flanking region primer R2	GGGCATCAATTGACTTTTGG
B15079	<i>CDC25</i> 5'-screening primer SO	CATTACCGTGATGAACCTG
B15080	<i>CDC25</i> 3'-screening primer SO2	ATTCGCCGCCCTTCTTCTTAT
B15083	<i>CDC25</i> Southern blot probe primer PO	GTTCAAGACCGGCTGAACAT
B15081	<i>CDC25</i> Internal screening primer LP	TCAGCTGGTTGACTTGAACG
B15082	<i>CDC25</i> Internal screening primer RP	AATTGAGGTAAGGCCGTGTG
B15084	<i>IRA2</i> 5'-flanking region primer L1	ATCCTATCGGCACCTTCTGA
B15085	<i>IRA2</i> 5'-flanking region primer L2	TTCAGATCCACTAGTTCTAGCAATGTCGAGCCATCTTTGA
B15086	<i>IRA2</i> 3'-flanking region primer R1	TTCCAGAAATTCCTTAGAACGAGTGCACATGAAGA
B15087	<i>IRA2</i> 3'-flanking region primer R2	ATGATCTTGAAGCGGAAACC

B15088	<i>IRA2</i> 5'-screening primer SO	TCAACCCGGGCAAGTATATC
B15089	<i>IRA2</i> 3'-screening primer SO2	AAGTAACGTGGGCAGTCACC
B15092	<i>IRA2</i> Southern blot probe primer PO	TGCGATTCATTGACAATGC
B15090	<i>IRA2</i> Internal screening primer LP	ACGCTTTGCTTGAACGAGAT
B15091	<i>IRA2</i> Internal screening primer RP	GCACGCTGACTCGTGAAATA
B14856	<i>PDE1</i> 5'-flanking region primer L1	CCTAAAGGTGGAGAACCAGA
B14857	<i>PDE1</i> 5'-flanking region primer L2	TTCAGATCCACTAGTTCTAGTGGAGGTTGGAAGAAAATGG
B14858	<i>PDE1</i> 3'-flanking region primer R1	TTCCAGAATTTCACTCTTATGAGATTAGGGCACCTCTCC
B14859	<i>PDE1</i> 3'-flanking region primer R2	ATCTCACGCGAAGGTCTGT
B14860	<i>PDE1</i> 5'-screening primer SO	AATTGGTGCCTTACGACCTG
B14861	<i>PDE1</i> 3'-screening primer SO2	GCAGCCATTGCTCACAATA
B14864	<i>PDE1</i> Southern blot probe primer PO	GGGCTTGATCAACAAAGAGC
B14862	<i>PDE1</i> Internal screening primer LP	GCTCAGGCCATTTACTGCTC
B14863	<i>PDE1</i> Internal screening primer RP	ATAAGGTGTTCTGGGCATGAG
B14865	<i>PDE2</i> 5'-flanking region primer L1	AGCCAGAGGACAGCGATAAA
B14866	<i>PDE2</i> 5'-flanking region primer L2	TTCAGATCCACTAGTTCTAGGGAACGAGGTGAAGAAGGAG
B14867	<i>PDE2</i> 3'-flanking region primer R1	TTCCAGAATTTCACTCTTACGCAAATGGGTATCCTATTG
B14868	<i>PDE2</i> 3'-flanking region primer R2	GGGCAGGAGAGTACAGCAAG
B14869	<i>PDE2</i> 5'-screening primer SO	TGATTCGGCTTCCCTAATTG
B14870	<i>PDE2</i> 3'-screening primer SO2	CTGCAGCAGACTTTGAGCTG
B14873	<i>PDE2</i> Southern blot probe primer PO	ACGGAATTTGACGGACTGAG
B14871	<i>PDE2</i> Internal screening primer LP	GTGTTTCTTTGGCACCTGT
B14872	<i>PDE2</i> Internal screening primer RP	TTGAAGCTCGCCTCTCTCTC
B14736	<i>RAS1</i> 5'-flanking region primer L1 (HYG)	AAGAGGCAAATGCGAGACAT
B14570	<i>RAS1</i> 5'-flanking region primer L2 (HYG)	GCACTTTTCGGGAAATGTGAACTTATACTCTTTTAACAT
B14571	<i>RAS1</i> 3'-flanking region primer R1 (HYG)	CGATGAGGTAGTGCAAGTTAGGTGTTGTGTGATTGTGTAG
B14737	<i>RAS1</i> 3'-flanking region primer R2 (HYG)	AAAAGCTGAACTTGGCAGGA
B13597	<i>RAS1</i> 5'-screening primer SO (HYG)	TGATGGAGATTCTGTGAAGA
B13598	<i>RAS1</i> 3'-screening primer SO2 (HYG)	TCTACCAGAGAAATATTTTT
B13599	<i>RAS1</i> Southern blot probe primer PO (HYG)	TCATGTACTGCTCTCTCATG
B14899	<i>RAS1</i> Internal screening primer LP (HYG)	GGCGGTGGTGTGGTAA
B13994	<i>RAS1</i> Internal screening primer RP (HYG)	TGTCTTGTGTTGCCACCAT
B14856	<i>PDE1</i> 5'-flanking region primer L1 (HYG)	CCTAAAGGTGGAGAACCAGA
B15149	<i>PDE1</i> 5'-flanking region primer L2 (HYG)	GCACTTTTCGGGAAATGTGTGGAGGTTGGAAGAAAATGG
B15150	<i>PDE1</i> 3'-flanking region primer R1 (HYG)	CGATGAGGTAGTGCAAGTTATGAGATTAGGGCACCTCTCC
B14859	<i>PDE1</i> 3'-flanking region primer R2 (HYG)	ATCTCACGCGAAGGTCTGT
B14860	<i>PDE1</i> 5'-screening primer SO (HYG)	AATTGGTGCCTTACGACCTG
B14861	<i>PDE1</i> 3'-screening primer SO2 (HYG)	GCAGCCATTGCTCACAATA
B14864	<i>PDE1</i> Southern blot probe primer PO (HYG)	GGGCTTGATCAACAAAGAGC
B14862	<i>PDE1</i> Internal screening primer LP (HYG)	GCTCAGGCCATTTACTGCTC
B14863	<i>PDE1</i> Internal screening primer RP (HYG)	ATAAGGTGTTCTGGGCATGAG

B17979	<i>BCYI</i> 5' flanking region primer 1 (<i>TEF1</i> promoter replacement)	CTTTCACAAAGTGGTCCAAGG
B17980	<i>BCYI</i> 5' flanking region primer 2 (<i>TEF1</i> promoter replacement)	GTATTCTGGGCCTCCATGTCTGCAAATTAATGATATCG
B17981	<i>BCYI</i> 3' flanking region primer 1 (<i>TEF1</i> promoter replacement)	CTACTTCACATCAATTAACATGGCTCCGTTCCGTACAGA
B17982	<i>BCYI</i> 3' flanking region primer 2 (<i>TEF1</i> promoter replacement)	TCGGCTGAGACAGAGGTCT
B10742	<i>BCYI</i> Screening primer (<i>TEF1</i> promoter replacement)	GGTTTTGCTTCTCTGCG
B11103	pV1025 forward-extended primer	CTAGAACTAGTGGATCTGAA
B11104	pV1025 reverse-extended primer	TAAGAGTGAAATCTGGAAA
B11105	NAT spilt primer 1	CCATTGACTAAGGTTTTCCC
B11106	NAT spilt primer 2	TTCAGTAGCCAAACCCATC
B11107	pV1025 Diagnostic screening primer 1	TCAGTGGCAAATCCTAACC
B11108	pV1025 Diagnostic screening primer 2	AGAGAAAATACCCGTGACG
B12462	pYM70 forward-extended primer	CACATTTCCCCGAAAAGTGC
B12463	pYM70 reverse-extended primer	TAACTTGCACTACCTCATCG
B12464	HYG spilt primer 1	TGCTGATTTGTCTCAAACCTT
B12465	HYG split primer 2	TACCATTATCAGTCAAAAACA
B12486	pYM70 Diagnostic screening primer 1	TGCGGCACAATTGAATAGGG
B12487	pYM70 Diagnostic screening primer 2	CGGTGATGACGGTGAAAACC
B16376	pTO149 forward-extended primer	GACATGGAGGCCAGAAATAC
B16377	pTO149 reverse-extended primer	CAGTATAGCGACCAGCATTC
B16378	NEO spilt primer 1	TGCTCCTGCCGAGAAAGTAT
B16379	NEO spilt primer 2	GCTCTTCGTCGAGATCATCC
B16380	pTO149 Diagnostic screening primer 1	ACATGGGGATGTATGGGCTA
B16381	pTO149 Diagnostic screening primer 2	TTTTCGCCTCGACATCATCT
B16376	pNEO-TEF1 forward-extended primer	GACATGGAGGCCAGAAATAC
B17918	pNEO-TEF1 reverse-extended primer	TTTTGTTAGTTTTTGAGGTG
B14393	CLP for <i>RAS1</i> complementation	ACTAGTAAGCGCGCAGGAACGAAACC
B14394	CRP for <i>RAS1</i> complementation	ACTAGTGAGAACGTCAAGACAATTCC
B14397	Screening primer for <i>RAS1</i> complementation	CGTGGAGGTGCAAGTAACGG
B14395	<i>RAS1</i> sequencing primer 1	TTTGATAGACTAGACAAAACG
B14396	<i>RAS1</i> sequencing primer 2	AGGTGCCGAATTGGCAAAAAG
B14483	CLP for <i>GPA2</i> complementation	ACTAGTACTAATGTCTGAGCAGAGTT
B14484	CRP for <i>GPA2</i> complementation	ACTAGTGCAATGAGCCAAGGACAGA
B14488	Screening primer for <i>GPA2</i> complementation	TGGCAATTTTTCAAGGAACA
B14485	<i>GPA2</i> sequencing primer 1	CTACGTGAGATTCAGTATGA
B14486	<i>GPA2</i> sequencing primer 2	TATTCATTTCTTTTCTTTT
B14487	<i>GPA2</i> sequencing primer 3	TGGTGAATGCAATCATTGAT
B14801	CLP for <i>GPR1</i> complementation	GCATGCTGCAAGCACATTCCGCACTG
B14802	CRP for <i>GPR1</i> complementation	GCATGCGATGATATGAAGATGCAAGA
B14806	Screening primer for <i>GPR1</i> complementation	GGTCTGCGAGGTTCTCTTTG
B14803	<i>GPR1</i> sequencing primer 1	CCCAGTGCCAGGCTACTTTT

B14804	<i>GPR1</i> sequencing primer 2	TAACCTTTCAGTCAAGGTGC
B14805	<i>GPR1</i> sequencing primer 3	GCTTTCATGCAACCATTTAA
B15155	CLP for <i>CDC25</i> complementation	CGTTGACACCAACAACGAAC
B15156	CRP for <i>CDC25</i> complementation	GGGCCCTCTGTTTCATCTCCGCTTCT
B15207	CLP2 for <i>CDC25</i> complementation	TTAATTAAGTTATTTATTCG
B15208	CRP2 for <i>CDC25</i> complementation	TTAATTAAGCCATTCATATT
B15164	Screening primer for <i>CDC25</i> complementation	GGTCATCAAACCCTCCTCAA
B15157	<i>CDC25</i> sequencing primer 1	CTCATTGCAACCGTTTCGG
B15158	<i>CDC25</i> sequencing primer 2	CATTCTAATTCTCTCACATG
B15159	<i>CDC25</i> sequencing primer 3	TTAGTAACGGAGAGATGCTG
B15160	<i>CDC25</i> sequencing primer 4	CAATGTCAACCAGCAGTTCA
B15161	<i>CDC25</i> sequencing primer 5	TCCTAGCAGATGAGTTCAAT
B15162	<i>CDC25</i> sequencing primer 6	TTGTTGAAGAGAGAGAGACA
B15163	<i>CDC25</i> sequencing primer 7	CAGATTAATAAGCTTGCCTG
B16075	CLP for <i>IRA2</i> complementation	TTTACAACATATAAGAACT
B16076	CRP for <i>IRA2</i> complementation	GGGCCCACTTCGAAACCATAAAGGTG
B16077	CLP2 for <i>IRA2</i> complementation	TCTAGAGAAAGCAATGTTCA
B16078	CRP2 for <i>IRA2</i> complementation	TCTAGAGTTCCGCAACATGG
B15175	Screening primer for <i>IRA2</i> complementation	GAAGCCCGTGAACGACGCCG
B15167	<i>IRA2</i> sequencing primer 1	CTTCATTTTCTTGAACAAGT
B15168	<i>IRA2</i> sequencing primer 2	ACTGCAATCAAAAATGATGG
B15169	<i>IRA2</i> sequencing primer 3	AAACTAGTGCATGAAATGGC
B15170	<i>IRA2</i> sequencing primer 4	CCCGTTCCATAGCTTAACGG
B15171	<i>IRA2</i> sequencing primer 5	TGTAATCTACAACGACTGCC
B15172	<i>IRA2</i> sequencing primer 6	CTAGGCAATTTTGTGCGATT
B15173	<i>IRA2</i> sequencing primer 7	GCGATCACTCTTGTGCGGTAC
B15174	<i>IRA2</i> sequencing primer 8	CCTTCGGTTGTACAACCATC
B15069	CLP for <i>PDE1</i> complementation	AGAAGGTGACCAAAGAAGAA
B15070	CRP for <i>PDE1</i> complementation	CTTATTACCATCAATGAGAA
B15074	Screening primer for <i>PDE1</i> complementation	TCAATTGCGATTCCCTCCCA
B15071	<i>PDE1</i> sequencing primer 1	AATAAGTGCAGATCTTCGGT
B15072	<i>PDE1</i> sequencing primer 2	ATTGCATCCCCACAATTCTC
B15073	<i>PDE1</i> sequencing primer 3	GAAGCAACCTACAAGTCAGC
B15241	CLP for <i>PDE2</i> complementation	ATTCAGGTGGATTCTTGAT
B15242	CRP for <i>PDE2</i> complementation	CCACTGGAGGCAGCGAAAGC
B15247	Screening primer for <i>PDE2</i> complementation	CGGTGTTTGACATGCTCAAG
B15243	<i>PDE2</i> sequencing primer 1	AGAGTAAATTTAAAGACAGC
B15244	<i>PDE2</i> sequencing primer 2	CACCGCACACAGTTGATTA
B15245	<i>PDE2</i> sequencing primer 3	AAATCTACAATGAAAGATCG
B15246	<i>PDE2</i> sequencing primer 4	TAGATTTGCTCGTAGTAGTG
B11749	<i>ACT1</i> qRT-PCR primer 1	TTGCTCCTGAAGAACACCTT

B11750	<i>ACT1</i> qRT-PCR primer 2	GCAGGAACGTTGAAGGTCTC
B16935	<i>RAS1</i> qRT-PCR primer 1	ATGGTGGCAACAACAAGACA
B16936	<i>RAS1</i> qRT-PCR primer 2	AACACCCGCTCTTCTCCTTT
B16937	<i>CDC25</i> qRT-PCR primer 1	ACTGGTGAACCCATTCTTC
B16938	<i>CDC25</i> qRT-PCR primer 2	CAGCGCTGTCAATGATGACT
B16941	<i>PDE1</i> qRT-PCR primer 1	GGTGGAGTTGGGTGCTCTAA
B16942	<i>PDE1</i> qRT-PCR primer 2	TATTGCCATGCTGAAGGTCA
B16939	<i>PDE2</i> qRT-PCR primer 1	CGATCCCAGAGAGAAATGAGC
B16940	<i>PDE2</i> qRT-PCR primer 2	ACAGGTGCCAAAGGAAACAC
B17723	<i>HSP21</i> qRT-PCR primer 1	GACGTTGGACCTGAAGGTGT
B17724	<i>HSP21</i> qRT-PCR primer 2	GTCGCCTTCAATCTTCTTGG
B17725	<i>HSP60</i> qRT-PCR primer 1	GTGAGGAGGGTGCTGTCATT
B17726	<i>HSP60</i> qRT-PCR primer 2	CAGCAATCATGTCCGGTGAAC
B14119	<i>HSP70</i> qRT-PCR primer 1	TGGGAACCACGTATTCTCTGT
B14120	<i>HSP70</i> qRT-PCR primer 2	AGGCAACGTATGAGGGTGTC
B14121	<i>HSP78</i> qRT-PCR primer 1	GAACCGTTTGGACGAAGTGT
B14122	<i>HSP78</i> qRT-PCR primer 2	TCGCCAATCTCTCTCAACCT
B12994	<i>HSP90</i> qRT-PCR primer 1	TTCCGCTGGTGCCGATGTCT
B12995	<i>HSP90</i> qRT-PCR primer 2	GGACGTGGTCGGCAACCAAGAA
B14123	<i>HSP104</i> qRT-PCR primer 1	GGATGGTGCCTTTGAAAGAA
B14124	<i>HSP104</i> qRT-PCR primer 2	AGGCTGCAAACCTCTCAAAA
B16784	<i>ALS4</i> qRT-PCR primer 1	GGTGCTATCACGGACCAAGT
B16785	<i>ALS4</i> qRT-PCR primer 2	CAGTGGCTTGATACGACGAA
B16786	<i>PGA7</i> qRT-PCR primer 1	ATTATGGCCACAGCGAAAAC
B16787	<i>PGA7</i> qRT-PCR primer 2	CAACAAAACCACCCAAAAAC
B16788	<i>SIT1</i> qRT-PCR primer 1	GGTGCCGCTACTGGTGTATT
B16789	<i>SIT1</i> qRT-PCR primer 2	GGAAGCTGACGCTACCACTC
B17623	<i>SAP6</i> qRT-PCR primer 1	TTTGCCATGTATCGCTTGAG
B17624	<i>SAP6</i> qRT-PCR primer 2	TCAGAGAGAGGCACCCTGAT
B17633	<i>PGA26</i> qRT-PCR primer 1	GGCTACTCTAACGCCACCAC
B17634	<i>PGA26</i> qRT-PCR primer 2	TGCAAACCTCCTCACACTTG
B11755	<i>BCY1</i> qRT-PCR primer 1	AATGGCACCAAGGTCAACAC
B11756	<i>BCY1</i> qRT-PCR primer 2	ATGCCCAACAAGTCACATCG

References

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