

Table S1. *A. nidulans* strains used for heterologous expression of NR-PKSs from *A. terreus*.

Fungal strain or transformant(s)	<i>alcA</i> promoter replaced gene	genotypes
LO4388, LO4389, LO4390	None	<i>pyrG89; pyroA4; nkuA::argB; riboB2; stcA-WΔ</i>
LO4522, LO4524	ATEG_00145.1	<i>pyrG89; pyroA4; nkuA::argB; riboB2; stcA-WΔ; wA::AfpyrG; alcA(p)-ATEG_00145.1: AfriboB</i>
LO4532, LO4533, LO4534	ATEG_07500.1	<i>pyrG89; pyroA4; nkuA::argB; riboB2; stcA-WΔ; wA::AfpyrG; alcA(p)-ATEG_07500.1: AfriboB</i>
LO5977, LO5978, LO5979	ATEG_07500.1*	<i>pyrG89; pyroA4; nkuA::argB; riboB2; stcA-WΔ; wA::AfpyrG; alcA(p)-ATEG_07500.1*: AfriboB</i>
LO4537, LO4538, LO4539	ATEG_08451.1	<i>pyrG89; pyroA4; nkuA::argB; riboB2; stcA-WΔ; wA::AfpyrG; alcA(p)-ATEG_08451.1: AfriboB</i>
LO4583, LO4587, LO4588, LO4591, LO4593, LO4595, LO4596, LO4597	ATEG_08451.1 ATEG_08450.1	<i>pyrG89; pyroA4; nkuA::argB; riboB2; stcA-WΔ; wA::AfpyrG; alcA(p)-ATEG_08451.1: AlcA(p)-ATEG_08450.1-AfpyroA</i>
LO5088, LO5089, LO5090	ATEG_02434.1	<i>pyrG89; pyroA4; nkuA::argB; riboB2; stcA-WΔ; wA::AfpyrG; alcA(p)-ATEG_02434.1: AfriboB</i>
LO6243, LO6244, LO6249, LO6250, LO6253, LO6254	ATEG_02434.1 ATEG_02438.1	<i>pyrG89; pyroA4; nkuA::argB; riboB2; stcA-WΔ; wA::AfpyrG; alcA(p)-ATEG_02434.1: alcA(p)-ATEG_02438.1: AfpyroA</i>
LO6169, LO6170, LO6171	ATEG_02434.1*	<i>pyrG89; pyroA4; nkuA::argB; riboB2; stcA-WΔ; wA::AfpyrG; alcA(p)-ATEG_02434.1*: AfriboB</i>
LO6214, LO6215, LO6223, LO6229, LO6230	ATEG_02434.1* ATEG_02438.1	<i>pyrG89; pyroA4; nkuA::argB; riboB2; stcA-WΔ; wA::AfpyrG; alcA(p)-ATEG_02434.1*: alcA(p)-ATEG_02438.1: AfpyroA</i>
LO4547, LO4548, LO4549	ATEG_10080.1	<i>pyrG89; pyroA4; nkuA::argB; riboB2; stcA-WΔ; wA::AfpyrG; alcA(p)-ATEG_10080.1: AfriboB</i>
LO5408, LO5483, LO5485	ATEG_10080.1*	<i>pyrG89; pyroA4; nkuA::argB; riboB2; stcA-WΔ; wA::AfpyrG; alcA(p)-ATEG_10080.1*: AfriboB</i>
LO4527, LO4528, LO4529	ATEG_03629.1	<i>pyrG89; pyroA4; nkuA::argB; riboB2; stcA-WΔ; wA::AfpyrG; alcA(p)-ATEG_03629.1: AfriboB</i>
LO5093, LO5094	ATEG_03432.1	<i>pyrG89; pyroA4; nkuA::argB; riboB2; stcA-WΔ; wA::AfpyrG; alcA(p)-ATEG_03432.1: AfriboB</i>
LO5200, LO5201, LO5202	ATEG_07661.1	<i>pyrG89; pyroA4; nkuA::argB; riboB2; stcA-WΔ; wA::AfpyrG; alcA(p)-ATEG_07661.1: AfriboB</i>
LO5283, LO5285	ATEG_07661.1 ATEG_07659.1	<i>pyrG89; pyroA4; nkuA::argB; riboB2; stcA-WΔ; wA::AfpyrG; alcA(p)-ATEG_07659.1: alcA(p)-ATEG_07661.1: AfpyroA</i>
LO5098, LO5099	ATEG_08662.1	<i>pyrG89; pyroA4; nkuA::argB; riboB2; stcA-WΔ; wA::AfpyrG; alcA(p)-ATEG_08662.1: AfriboB</i>
LO5794, LO5795, LO5796, LO5797, LO5798	ATEG_08662.1 ATEG_08667.1 ATEG_08668.1	<i>pyrG89; pyroA4; nkuA::argB; riboB2; stcA-WΔ; wA::AfpyrG; alcA(p)-ATEG_08662.1: alcA(p)-ATEG_08668.1: alcA(p)-ATEG_08667.1: AfriboB</i>
LO6120, LO6121, LO6125, LO6127, LO6130, LO6131, LO6132, LO6135, LO6136, LO6137	ATEG_08662.1 ATEG_08667.1 ATEG_08668.1*	<i>pyrG89; pyroA4; nkuA::argB; riboB2; stcA-WΔ; wA::AfpyrG; alcA(p)-ATEG_08662.1: alcA(p)-ATEG_08667.1: alcA(p)-ATEG_08668.1*: AfriboB</i>

* indicates that the start codon was reannotated.