Table S2. *A. nidulans* strains constructed in reconstituting the *A. terreus* asperfuranone biosynthesis pathway.

Fungal strain or transformant(s)	*A. terreus* gene transferred into *A. nidulans* and placed under control of *alcA*(p)	genotypes
LO7020, LO7021, LO7022	none	*pyrG89; pyroA4; nkuA::argB; riboB2; stcA-W∆; afoA-G∆*
LO6751, LO6754	*AteafoG, AteafoE*	*pyrG89; pyroA4; nkuA::argB; riboB2; stcA-W∆; afoA-G∆; wA::AfpyrG: alcA*(p)-*AteafoG: alcA*(p)-*AteafoE: AfpyroA*
LO6763, LO6764, LO6765, LO6777, LO6778, LO6779	*AteafoG, AteafoE, AteafoF*	*pyrG89; pyroA4; nkuA::argB; riboB2; stcA-W∆; afoA-G∆; wA::AfpyrG: alcA*(p)-*AteafoG: alcA*(p)-*AteafoE: alcA*(p)-*AteafoF: AfriboB*
LO6758, LO6759, LO6760, LO6772, LO6773, LO6774	*AteafoG, AteafoE, AteafoD*	*pyrG89; pyroA4; nkuA::argB; riboB2; stcA-W∆; afoA-G∆; wA::AfpyrG: alcA*(p)-*AteafoG: alcA*(p)-*AfoafoE: alcA*(p)-*AteafoD: AfriboB*
LO6767, LO6768, LO6769, LO6782, LO6783, LO6784	*AteafoG, AteafoE, AteafoC*	*pyrG89; pyroA4; nkuA::argB; riboB2; stcA-W∆; afoA-G∆; wA::AfpyrG: alcA*(p)-*AteafoG: alcA*(p)-*AteafoE: alcA*(p)-*AteafoC: AfriboB*
LO7156, LO7157, LO7158, LO7159	*AteafoG, AteafoC*	*pyrG89; pyroA4; nkuA::argB; riboB2; stcA-W∆; afoA-G∆; wA::AfpyrG: alcA*(p)-*AteafoG: alcA*(p)-*AteafoC: AfpyroA*
LO6817, LO6838	*AteafoG, AteafoE, AteafoC, AteafoD*	*pyrG89; pyroA4; nkuA::argB; riboB2; stcA-W∆; afoA-G∆; wA::AfpyrG: alcA*(p)-*AteafoG: alcA*(p)-*AteafoE: alcA*(p)-*AteafoC: alcA*(p)-*AteafoD: AfpyroA*
LO6853, LO6854	*AteafoG, AteafoE, AteafoC, AteafoD, AteafoC*	*pyrG89; pyroA4; nkuA::argB; riboB2; stcA-W∆; afoA-G∆; wA::AfpyrG: alcA*(p)-*AteafoG: alcA*(p)-*AteafoE: alcA*(p)-*AteafoC: alcA*(p)-*AteafoD: alcA*(p)-*AteafoC: AfriboB*
LO6864, LO6865	*AteafoG, AteafoE, AteafoC, AteafoD, AteafoF*	*pyrG89; pyroA4; nkuA::argB; riboB2; stcA-W∆; afoA-G∆; wA::AfpyrG: alcA*(p)-*AteafoG: alcA*(p)-*AteafoE: alcA*(p)-*AteafoC: alcA*(p)-*AteafoD: alcA*(p)-*AteafoF: AfriboB*
LO6843, LO6844, LO6848, LO6849	*AteafoG, AteafoE, AteafoF, AteafoD, AteafoC*	*pyrG89; pyroA4; nkuA::argB; riboB2; stcA-W∆; afoA-G∆; wA::AfpyrG: alcA*(p)-*AteafoG: alcA*(p)-*AteafoE: alcA*(p)-*AteafoF: alcA*(p)-*AteafoD: alcA*(p)-*AteafoC: AfriboB*
LO6855, LO6856, LO6859, LO6860	*AteafoG, AteafoE, AteafoF, AteafoC, AteafoD*	*pyrG89; pyroA4; nkuA::argB; riboB2; stcA-W∆; afoA-G∆; wA::AfpyrG: alcA*(p)-*AteafoG: alcA*(p)-*AteafoE: alcA*(p)-*AteafoF: alcA*(p)-*AteafoC: alcA*(p)-*AteafoD: AfriboB*
LO 7160, LO7161, LO7162, LO7163, LO7164	*AteafoG, AteafoE, AteafoF, AteafoC, AteafoD, AteafoB*	*pyrG89; pyroA4; nkuA::argB; riboB2; stcA-W∆; afoA-G∆; wA::AfpyrG: alcA*(p)-*AteafoG: alcA*(p)-*AteafoE: alcA*(p)-*AteafoF: alcA*(p)-*AteafoC: alcA*(p)-*AteafoD: alcA*(p)-*AteafoB: AfriboB*