

Additional File 28. Number of flavohemoglobins and protein IDs found in the genome sequences of the *Aspergillus* species.

Name	Strain	# of genes	% Growth Inhibition	Locus tag <sup>1</sup>	Flavo type	Length	Predicted localization
<i>A. glaucus</i>	CBS 516.65	1	17	Aspgl1_0031833	<i>fhbA</i>	415 aa	cytosol; nucleus
<i>A. tubingensis</i>	CBS 134.48	2	40	Asptu1_0052006	<i>fhbA</i>	456 aa	cytosol; nucleus
				Asptu1_0195204	<i>fhbA</i>	417 aa	cytosol; nucleus
<i>A. zonatus</i>	CBS 506.65	2	82	Aspzo1_0148118	<i>fhbA</i>	411 aa	cytosol; nucleus
				Aspzo1_0056900	<i>fhbB</i>	429 aa	cytosol; nucleus
<i>A. brasiliensis</i>	CBS 101740	2	79	Aspbr1_0049986	<i>fhbA</i>	417 aa	cytosol; nucleus
				Aspbr1_0047169	<i>fhbA</i>	455 aa	cytosol; nucleus
<i>A. versicolor</i>	CBS 795.97	2	74	Aspve1_0140313	<i>fhbA</i>	412 aa	cytosol; nucleus
				Aspve1_0056118	<i>fhbB</i>	424 aa	cytosol; nucleus
<i>A. sydowii</i>	CBS 593.65	2	58	Aspsy1_0092771	<i>fhbA</i>	413 aa	cytosol; nucleus
				Aspsy1_0158001	<i>fhbB</i>	426 aa	cytosol; nucleus
<i>A. oryzae</i>	Rib40	2		AO090011000202	<i>fhbA</i>	415 aa	cytosol; mitochondrial; nucleus
				AO090012000171	<i>fhbB</i>	436 aa	mitochondrion
<i>A. niger</i>	ATCC1015	2	11	201503	<i>fhbA</i>	417 aa	cytosol
				54097	<i>fhbA</i>	456 aa	cytosol; nucleus
<i>A. luchuensis</i>	CBS 106.47	2	15	e_gw1.9.1180.1	<i>fhbA</i>	417 aa	cytosol; nucleus
				estExt_Genewise1.C_10_t10326	<i>fhbA</i>	456 aa	extracellular, cytosol;mitochondrion
<i>A. niger</i>	NRRL3	2	-21	NRRL3_00799	<i>fhbA</i>	417 aa	cytosol; nucleus
				NRRL3_10307	<i>fhbA</i>	456 aa	extracellular, cytosol;mitochondrion
<i>A. wentii</i>	DTO 134-E9	1	85	Aspwe1_0174689	<i>fhbA</i>	415 aa	cytosol; nucleus
<i>A. niger</i>	CBS 513.88	2	72	An14g02460	<i>fhbA</i>	417 aa	cytosol
				An18g01780	<i>fhbA</i>	336 aa	cytosol; nucleus

<i>A. fischeri</i>	CBS 544.65	1	72	NFIA_030070	<i>fhbA</i>	413 aa	cytosol; nucleus
<i>A. terreus</i>	NCCB IH2624	2	81	ATEG_02147	<i>fhbA</i>	415 aa	cytosol; nucleus
				ATEG_07899	<i>fhbB</i>	427 aa	cytosol; nucleus
<i>A. flavus</i>	NRRL 3357 (CBS 128202)	2	62	AFL2G_04980	<i>fhbA</i>	416 aa	cytosol; nucleus
				AFL2G_03098	<i>fhbB</i>	431 aa	cytosol; nucleus
<i>A. fumigatus</i>	Af 293	2	73	Afu4g03410	<i>fhbA</i>	412 aa	cytosol
				Afu8g06080	<i>fhbB</i>	432 aa	cytosol; mitochondrial; nucleus
<i>A. clavatus</i>	NRRL1 (CBS 513.65)	2	94	ACLA_055100	<i>fhbA</i>	409 aa	cytosol; nucleus
				ACLA_018040	<i>fhbA</i>	458 aa	cytosol; nucleus
<i>A. nidulans</i>	FGCS A4	2	74	AN7169	<i>fhbA</i>	410 aa	cytosol; nucleus
				AN3522	<i>fhbB</i>	426 aa	cytosol; mitochondrial; nucleus
<i>A. carbonarius</i>	DTO 115-B6	1	45	Acar5010_400189	<i>fhbA</i>	417 aa	cytosol; nucleus
<i>A. aculeatus</i>	CBS 172.66	2	73	Aacu16872_050856	<i>fhbA</i>	418 aa	cytosol; nucleus
				Aacu16872_063347	<i>fhbB</i>	430 aa	cytosol; nucleus

<sup>1</sup> Proteins IDs correspond to: Broad Institute - *Aspergillus* Comparative Database (*A. fischeri*, *A. oryzae*, *A. fumigatus*, *A. terreus*, *A. clavatus*, *A. nidulans*, *A. flavus*) and JGI (*A. aculeatus*, *A. carbonarius*, *A. brasiliensis*, *A. glaucus*, *A. tubingensis*, *A. wentii*, *A. zonatus*, *A. versicolor*, *A. sydowii*).