

Table 6 List of genes encoding carbohydrate active enzymes in *A. fumigatus* and *A. niger*

Pfam ID	Domain	Domain description	<i>A. niger</i>		<i>A. fumigatus</i>	
			Total	AS	Total	AS
pfam04616	Glyco_hydro_43	Glycosyl hydrolases family 43	10	4	16	6
pfam00704	Glyco_hydro_18	Glycosyl hydrolases family 18	9	6	16	9
pfam01915	Glyco_hydro_3_C	Glycosyl hydrolase family 3 C-terminal	13	8	14	4
pfam00128	Alpha-amylase	Alpha amylase	14	7	12	4
pfam00295	Glyco_hydro_28	Glycosyl hydrolases family 28	16	5	11	3
pfam03663	Glyco_hydro_76	Glycosyl hydrolase family 76	11	6	8	2
pfam03659	Glyco_hydro_71	Glycosyl hydrolase family 71	7	2	8	2
pfam00150	Cellulase	Cellulase (glycosyl hydrolase family 5)	4	4	8	4
pfam01055	Glyco_hydro_31	Glycosyl hydrolases family 31	7	3	7	4
pfam03198	Glyco_hydro_72	Glucanotransferase	6	4	7	3
pfam00982	Glyco_transf_20	Glycosyltransferase family 20	6	4	7	4
pfam03443	Glyco_hydro_61	Glycosyl hydrolase family 61	5	0	7	0
pfam01522	Polysacc_deac_1	Polysaccharide deacetylase	7	2	6	1
pfam00722	Glyco_hydro_16	Glycosyl hydrolases family 16	5	1	6	2
pfam04488	Gly_transf_sug	Glycosyltransferase sugar-binding	9	3	5	0
pfam01532	Glyco_hydro_47	Glycosyl hydrolase family 47	5	3	5	2
pfam13641	Glyco_tranf_2_3	Glycosyltransferase like family 2	4	2	5	1
pfam00232	Glyco_hydro_1	Glycosyl hydrolase family 1	3	1	5	1
pfam00723	Glyco_hydro_15	Glycosyl hydrolases family 15	2	1	5	2
pfam07971	Glyco_hydro_92	Glycosyl hydrolase family 92	5	4	4	2
pfam00933	Glyco_hydro_3	Glycosyl hydrolase family 3 N terminal	4	2	4	2
pfam01301	Glyco_hydro_35	Glycosyl hydrolases family 35	4	3	4	2
pfam00251	Glyco_hydro_32N	Glycosyl hydrolases family 32 N-terminal	3	0	4	0
pfam03901	Glyco_transf_22	Alg9-like mannosyltransferase family	3	2	4	3
pfam05686	Glyco_transf_90	Glycosyl transferase family 90	3	0	4	1
pfam00840	Glyco_hydro_7	Glycosyl hydrolase family 7	2	2	4	0
pfam07335	Glyco_hydro_75	Fungal chitosanase of glycosyl hydrolase	2	1	4	1
pfam00331	Glyco_hydro_10	Glycosyl hydrolase family 10	1	1	4	0
pfam03033	Glyco_transf_28	Glycosyltransferase family 28 N-terminal	5	5	3	2
pfam00457	Glyco_hydro_11	Glycosyl hydrolases family 11	3	0	3	0
pfam01670	Glyco_hydro_12	Glycosyl hydrolase family 12	3	2	3	0
pfam01793	Glyco_transf_15	Glycolipid 2-alpha-mannosyltransferase	3	2	3	3
pfam07470	Glyco_hydro_88	Glycosyl Hydrolase Family 88	2	1	3	0
pfam13692	Glyco_trans_1_4	Glycosyl transferases group 1	2	2	3	1
pfam00734	CBM_1	Fungal cellulose binding domain	1	1	3	2
Total	-	-	251	123	267	86

Note: only protein families with 3 or more members in *A. fumigatus* are listed in the table. The full list of all protein families can be found in supplementary files