

Designation of certain filamentous fungal genes identified by molecular cloning.

In a recent review entitled "The structure and organization of nuclear genes of filamentous fungi" (Gurr *et al.*, 1987) we gave conventional designations to certain hitherto undesigned genes of filamentous fungi. These are genes which have been cloned and identified by DNA sequencing, not by classical genetics analyses, and consequently, were not given gene symbols.

We contacted the appropriate research groups and their respective workers and agreed upon conventional gene symbols and designations. These are outlined in the table below. - - - Molecular Genetics Unit, University of St. Andrews, St. Andrews, KY16 9TH, United Kingdom.

<u>Species</u>	<u>Gene Designation</u>	<u>System</u>	<u>Reference</u>
<u>Aspergillus awamori</u>	<u>glaA</u>	glucoamylase	Nunberg <i>et al.</i> , 1984. <i>Mol. Cell. Biol</i> 4 : 2306-2315.
<u>Aspergillus nidulans</u>	<u>actA</u> <u>alcC</u> <u>aromA</u> <u>pgkA</u>	actin alcohol dehydrogenase III aromatic amino acid biosynthesis phosphoglycerate kinase	Fidel and Morris, per. comm. McKnight <i>et al.</i> , 1986. <i>Embo. J.</i> 4 : 2093-2099. Charles <i>et al.</i> , 1985. <i>Nucl. Acids Res.</i> 14 : 2201-2213. Clements and Roberts, 1986. <i>Gene</i> 44 : 97-105.
<u>Aspergillus niger</u>	<u>glaA</u>	glucoamylase	Boel <i>et al.</i> , 1984. <i>Embo. J.</i> 3 : 1581-1585
<u>Cephalosporium acremonium</u>	<u>pcbC</u> <u>pcbE/F</u>	isopenicillin-N-synthetase deacetoxycephalosporin C synthetase deacetylcephalosporin C synthetase	Samson <i>et al.</i> , 1985. <i>Nature</i> 318 : 191-194. Harford <i>et al.</i> , per. comm. Samson <i>et al.</i> , 1988. <i>Biotech.</i> (in press)
<u>Colletotrichum gloesporioides</u>	<u>cutA</u>	cutinase	Kolattukudy <i>et al.</i> , per. comm.
<u>Colletotrichum capsici</u>	<u>cutA</u>	cutinase	Kolattukudy <i>et al.</i> , per. comm.
<u>Fusarium solani f.sp. pisi</u>	<u>cutA</u>	cutinase	Kolattukudy <i>et al.</i> , 1985. In, <i>Molecular Genetics of Filamentous Fungi</i> . pp.421-438. Ed. Timberlake Alan R. Liss, N.Y.
<u>Mucor pusillus</u>	<u>mprA</u>	aspartate protease	Tonouchi <i>et al.</i> , 1986. <i>Nucl. Acids Res.</i> 14 : 7557-7568.
<u>Neurospora crassa</u>	<u>act-1</u> <u>acp-1</u> <u>cum-1</u> <u>des-1</u>	actin ATP/ADP carrier protein copper metallothionein ATP synthase delta subunit	Gallwitz, per. comm. Arends and Sebald 1984. <i>Embo. J.</i> 3 : 377-382 Munger <i>et al.</i> , 1985. <i>Embo. J.</i> 4 : 2665-2668. Sebald and Kruse, 1984. In, H^+ -ATPase (ATP synthase) Structure, Function, Biogenesis. The F_1F_0 complex of coupling membranes. pp. 67-75. Ed. Pápa, Altendorf, Ernster and Packer. Adriatica Editrice Bari.
	<u>fes-1</u>	iron sulphur subunit of ubiquinol cytochrome C reductase	Harnish <i>et al.</i> , 1985. <i>Eur. J. Biochem.</i> 149 : 95-99.
	<u>pma-1</u>	plasma membrane H^+ ATPase	Hager <i>et al.</i> , 1986. <i>Proc. Natl. Acad. Sci. U.S.A.</i> 83 : 7693-7697.
<u>Penicillium chrysogenum</u>	<u>pcbC</u>	isopenicillin-N-synthetase	Carr <i>et al.</i> , 1986. <i>Gene</i> 48 : 494-497. Harford <i>et al.</i> , per. comm.
<u>Schizophyllum commune</u>	<u>dikA</u>	unknown function (expressed in the dikaryon)	Dons <i>et al.</i> , 1984. <i>Embo. J.</i> 3 : 2101-2106.
<u>Trichoderma reesei</u>	<u>cbh1</u> <u>cbh2</u> <u>egl1</u> <u>egl3</u>	cellobiohydrolase 1 cellobiohydrolase 2 endoglucanase 1 endoglucanase 3	Teeri <i>et al.</i> , 1983. <i>Biotech.</i> 1 : 696-699; Shoemaker <i>et al.</i> , 1983. <i>Biotech.</i> 1 : 691-696. Teeri <i>et al.</i> , 1987. <i>Gene</i> 51 : 43-52; Chen <i>et al.</i> , 1987. <i>Biotech.</i> 5 : 274-278. Penttila <i>et al.</i> , 1986. <i>Gene</i> 45 : 253-263; van Arsdell <i>et al.</i> , 1987. <i>Biotech.</i> 5 : 60-64. Saloheimo <i>et al.</i> , 1987. <i>Gene</i> (in press).