Fungal Genetics Reports

Volume 35 Article 4

# Designation of certain filamentous fungal genes identified by molecular cloning.

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Recommended Citation

Gurr, S. J., and J.R. Kinghorn (1988) "Designation of certain filamentous fungal genes identified by molecular cloning.," *Fungal Genetics Reports*: Vol. 35, Article 4. https://doi.org/10.4148/1941-4765.1524

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## Abstract

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 undesignated genes of filamentous fungi.

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# 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 undesignated 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.

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| Species | Gene Designation | System | Reference |
|---|---|---|---|
| Aspergillus awamori | glaA | glucoamylase | Nunberg et al., 1984. Mol. Cell. Biol 4: 2306-2315. |
| Aspergillus nidulans | actA | actin | Fidel and Morris, per. comm. |
| | alcC | alcohol dehydrogenase III | McKnight et al., 1986. Embo. J. 4: 2093-2099. |
| | aromA | aromatic amino acid biosynthesis | Charles et al., 1985. Nucl. Acids Res. 14: 2201-2213. |
| | pgkA | phosphoglycerate kinase | Clements and Roberts, 1986. Gene 44: 97-105. |
| Aspergillus niger | glaA | glucoamylase | Boel et al., 1984. Embo. J. 3: 1581-1585 |
| Cephalosporium acremonium | pcbC | isopenicillin-N-synthetase | Samson et al., 1985. Nature 318: 191-194. Harford et al., per. comm. |
| | pcbE/F | deacetoxycephalosporin C synthetase deacetylcephalosporin C synthetase | Samson et al., 1988. Biotech. (in press) |
| Colletotrichum gloesporioides | cutA | cutinase | Kolattukudy et al., per. comm. |
| Colletotrichum capsici | cutA | cutinase | Kolattukudy et al., per. comm. |
| Fusarium solani f.sp. pisi | cutA | cutinase | Kolattukudy et al., 1985. In, Molecular Genetics of Filamentous Fungi. pp.421-438. Ed. Timberlake Alan R. Liss, N.Y. |
| Mucor pusillus | mprA | aspartate protease | Tonouchi et al., 1986. Nucl. Acids Res. 14: 7557-7568. |
| Neurospora crassa | act-1 | actin | Gallwitz, per. comm. |
| | acp-1 | ATP/ADP carrier protein | Arends and Sebald 1984. Embo. J. 3: 377-382 |
| | cum-1 | copper metallothionein | Munger et al., 1985. Embo. J. 4: 2665-2668. |
| | des-1 | ATP synthase delta subunit | Sebald and Kruse, 1984. In, $H^+$-ATPase (ATP synthase) Structure, Function, Biogenesis. The $F_oF_1$ complex of coupling membranes. pp. 67-75. Ed. Papa, Altendorf, Ernster and Packer. Adriatica Edritrice Bari. |
| | fes-1 | iron sulphur subunit of ubiquinol cytochrome C reductase | Harnish et al., 1985. Eur. J. Biochem. 149: 95-99. |
| | pma-1 | plasma membrane $H^+$ATPase | Hager et al., 1986. Proc. Natl. Acad. Sci. U.S.A. 83: 7693-7697. |
| Penicillium chrysogenum | pcbC | isopenicillin-N-synthetase | Carr et al., 1986. Gene 48: 494-497. Harford et al., per. comm. |
| Schizophyllum commune | dikA | unknown function (expressed in the dikaryon) | Dons et al., 1984. Embo. J. 3: 2101-2106. |
| Trichoderma reesei | cbh1 | cellobiohydrolase 1 | Teeri et al., 1983. Biotech. 1: 696-699; Shoemaker et al., 1983. Biotech. 1: 691-696. |
| | cbh2 | cellobiohydrolase 2 | Teeri et al., 1987. Gene 51: 43-52; Chen et al., 1987. Biotech. 5: 274-278. |
| | egl1 | endoglucanase 1 | Penttila et al., 1986. Gene 45: 253-263; van Arsdell et al., 1987. Biotech. 5: 60-64. |
| | egl3 | endoglucanase 3 | Saloheimo et al., 1987. Gene (in press). |

From: Gurr, S.J., Unkles S.E. and Kinghorn, J.R. 1987. In: Gene structure in eucaryotic microbes. pp. 93-139. Ed. J.R. Kinghorn, SGM Special Publications. 22: IRL Press, Oxford, U.K.