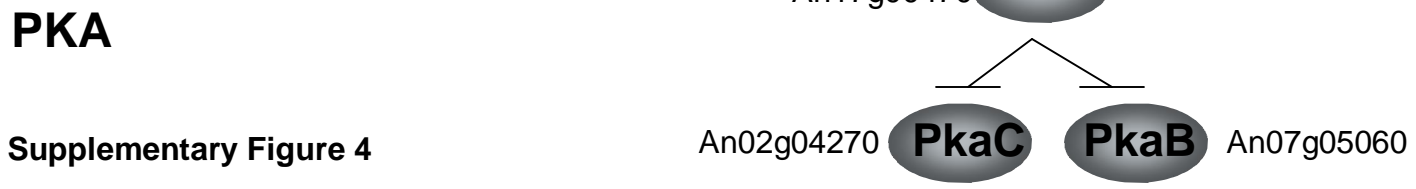
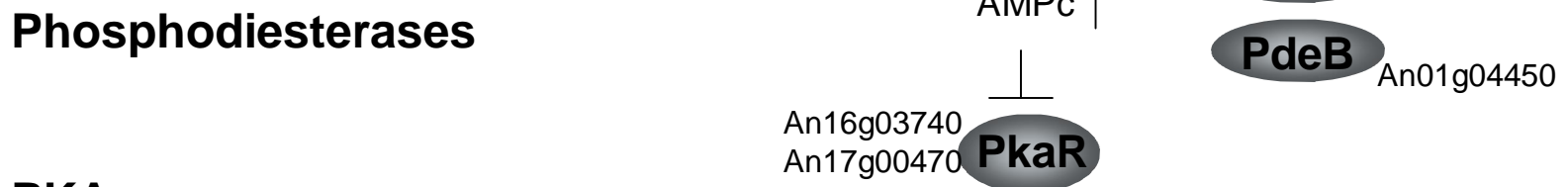
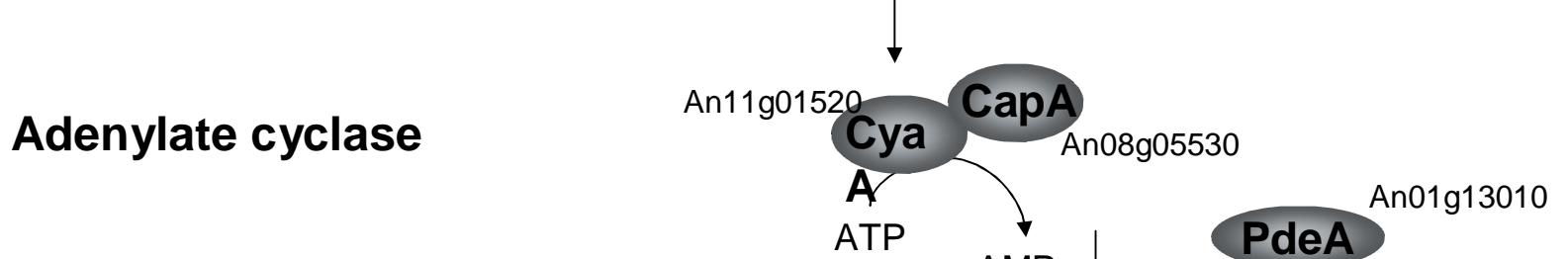
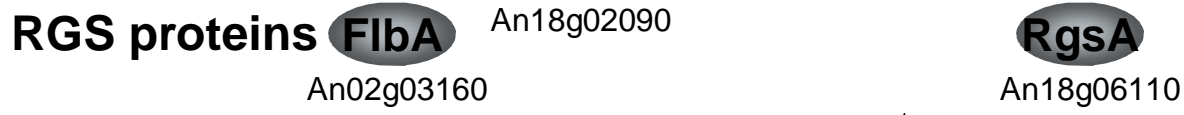
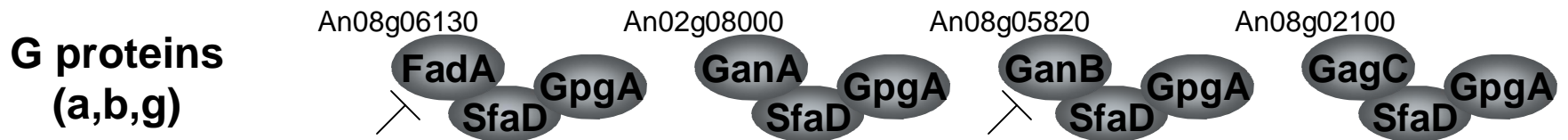
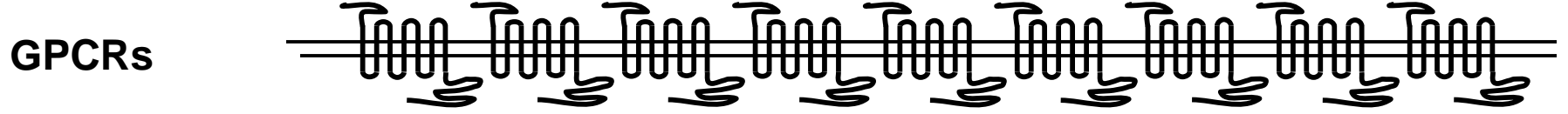


I	II	III	IV	V	VI	VII	VIII	IX
Pheromone (a-like)	Pheromone ( $\alpha$ -like)	Putative carbon or cAMP sensor	Probable nitrogen sensor	Putative carbon or cAMP sensor	GPCRs with RGS domain	MG00532.4-like GPCRs	Izh-like GPCRs	opsin
An03g03890 (PreA/GprB)	An09g04180 (PreB/GprA)	An13g01340 (GprC) An02g01560 (GprD) An18g01290	An09g06510 (GprF) An08g04110 (GprG) An18g05870 (GprJ)	An15g07270	An04g07760 (GprK)	An07g02930 (GprM)	An16g04540 (GprO) An07g09280 (GprP) An01g00400	An12g01460 (NopA) An12g02200



Supplementary Figure 4

**Supplementary Figure 4 G protein and cAMP signaling.** Accession numbers are indicated for all identified components of these signaling pathways. G-protein coupled receptors (GPCRs) are classified according to Lafon *et al.*, 2006. FadA, GanA, GanB, GagC: heterotrimeric G protein alpha subunit. SfaD: heterotrimeric G protein beta subunit. GpgA: heterotrimeric G protein gamma subunit (truncated ORF at 5'end of contig An01c0160). FlbA, RgsA: RGS proteins regulating FadA and GanB, respectively, it is not known whether these proteins may also regulate the GTPase activity of GanA and the *A. niger*-specific GagC heterotrimeric G protein alpha subunits. CyaA: adenylate cyclase. CapA: cyclase associated protein. PdeA: low-affinity phosphodiesterase. PdeB: high affinity phosphodiesterase. PkaR: cAMP-dependent protein kinase regulatory subunit; note that *A. niger* has two genes encoding such regulatory subunits; PkaC, PkaB: cAMP-dependent protein kinase catalytic subunit.