

## **Description of Additional Supplementary Files**

File Name: Supplementary Data 1

Description: RNAseq results.

File Name: Supplementary Data 2

Description: OrthoMCL gene clusters.

File Name: Supplementary Data 3

Description: GPCR sequence alignment.

File Name: Supplementary Data 4

Description: GPCR phylogeny.

File Name: Supplementary Data 5

Description: Ras sequence alignment.