

# Revised Supplemental Figures for GYCO-2008-00148

G1	SIKSVIRDSQHITHGPIFFSYDRALITLARKHSSKCPISYIDIVNLKSPLRLGVLCDDIN
Dr	---NLCLDKINALHKPAYEHP-----KDLKASSGRLRVGYISSDFG
	. : * . : * * : . : * : . : * : . : * : . : * : . : * : . : * : . :

G1	SIPIGCILESWLRNIDPKVASLSIYSTVASDKSALRTSLEAHCSNFIDFTNYKYQNNPFL
Dr	NHPTSHLMQSIPGMHNSEKFEVFCYALSPDDGTNFRVKVMAEHHFIDLSQLCPCNG---K
	.. * . ::* . : . : * . : .. * . : * . : * . : . : ***:: : . .

G1 CAQRINGDGICIMISM CQHNCGLEGRILAMRPAPIQISYWTHGGTTNSNYLDYI LADQYC  
Dr AADRIHQDGIHILVN MNGYTKGARNELFALRPAPIQAMWLAYPGTSGAPFMDYIVSDKAT  
\* ; \* ; \* \* ; \* ; \* ; \* ; \* ; \* ; \* ; \* ; \* ; \* ; \* ; \* ; \* ; \* ; \* ; \* ; \* ;

G1	IPPGYAHLYSEHVITMPGCFICPSHSMHYSNAILLEEADILKVTVEEVRSLIQDSKPD
Dr	SPIEVAEQYSEKLAYMPNTFFIGDHANMFP-----HLKKKAVI
	* * * * ; * * * ; * ; * ; * ; * *

GAP

G1 KKMEPLLKAIYPLQRIASEAAVPASMEKSENNSDLTSHRVCLPLYRKNIRALYGI PAN  
Dr -----GLATTQINNKAATGEEVPR-----TIVVTTRSQYGLPED  
.....: \* ..: \*\* .. .: : .. .: \*: \*\*: \*: ..

G1 FLSVLECKDLICASQGEAVLLCTRLAVDGSYYFSVRKRILKNRSN--LFNISRWCNDNFVL  
Dr QLTCLGCPELIAQSQRQEYEDVAVKLGTDMEFLKKVRARVWKQRICSPLFNTKQYTMDLEK  
\* ; \* \* ; \*\* \* ; \* ; ; \* ; \* ; \* ; \* ; \* ; \* ; \* ; \* ; \* ; \* ; \* ; \* ;

Supplemental Fig. 1. Alignment of the catalytic “spy” domain of the *Giardia lamblia* (Gl) OGT with that of *Danio rerio* (Dr). Stars indicate identity, while periods and colons indicate similarity. In the alignable portions of the sequences there is a 29% amino acid identity and a 65% amino acid similarity. Note there is a gap in the alignment, because there is a large insert in the “spy” domain of the *Giardia* OGT.

Supplemental Fig. 2. Alignment of the catalytic “spy” domain of the *Cryptosporidium parvum* (Cp) OGT with that of *Petunia hybrida* (Ph). Stars indicate identity, while periods and colons indicate similarity. In the alignable portions of the sequences there is a 39% amino acid identity and a 76% amino acid similarity.