Table S9. Gene-function associations based on the conserved coexpression network CoExp_{Tbr×Lif}. Pathways are defined according to KEGG. Refer to Table S1 for more details.

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		Oxidative phosphorylation			
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	Proteasome	Ω.	ē		
	380	ξį	Ribosome		
	te	g	SO		Notes
	20	õ	음	TriTrypDB annotation (v2.0)	9
TI 007 10 0000 (TI 10 01 17 77 77)	*	Ľ		D. I. LOTPILLE	_
Tb927.10.6800 (Tb10.6k15.3970)	*			Developmentally regulated GTP-binding protein	
Tb927.5.1520	**			Heat shock protein HsIVU, ATPase subunit HsIU	
Tb927.7.4870		*		Hypothetical protein, conserved	
Tb09.160.0740		*		Hypothetical protein, conserved	
Tb927.10.9830 (Tb10.6k15.0480)		*		Hypothetical protein, conserved	а
Tb927.10.8320 (Tb10.6k15.2180)		**		Cytochrome oxidase subunit IX	
Tb11.02.4120		*		Hypothetical protein, conserved	а
Tb09.160.1820		*		Cytochrome oxidase subunit V	1-
Tb927.10.5050 (Tb10.70.2155)		**		Hypothetical protein, conserved	b
Tb927.10.4240 (Tb10.70.3010)		*		Hypothetical protein, conserved	c,d
Tb927.3.1410		*		Cytochrome oxidase subunit VII	-1
Tb927.3.700		*		Hypothetical protein, conserved	d
Tb927.4.3450		*		Hypothetical protein, conserved	b,d
Tb927.8.5120		*		Cytochrome c	
Tb927.10.520 (Tb10.70.7760)		**		Hypothetical protein, conserved	а
Tb927.5.1060		**		Mitochondrial processing peptidase, beta subunit	
Tb927.5.2930		*		Hypothetical protein, conserved	а
Tb927.4.1360		*		Hypothetical protein, conserved	е
Tb11.47.0022		*		Hypothetical protein, conserved	a
Tb927.6.590		*		Hypothetical protein, conserved	b
Tb927.7.3500		*		Glutathione-S-transferase/glutaredoxin	
Tb927.7.840		*		Hypothetical protein, conserved	а
Tb927.5.3090		*		Hypothetical protein, conserved	а
Tb927.10.15960 (Tb10.61.0320)		*		Hypothetical protein, conserved	-
Tb927.4.720		*		Hypothetical protein, conserved	b
Tb927.3.920		-	*	Hypothetical protein, conserved	
Tb927.5.590			*	Protein phosphatase 1, regulatory subunit	f
Tb11.01.5720			*	Ribosomal protein L18	
Tb11.55.0002			*	Protein phosphatase 2C	
Tb927.4.3660	<u> </u>	<u> </u>		Hypothetical protein, conserved	

 $^{1 \}times 10^{-4} < \text{p-value} \le 0.01$ $1 \times 10^{-7} < \text{p-value} \le 1 \times 10^{-4}$ These proteins have been shown to be associated with ATP synthase complex (PLoS Pathog 2009, 5:e1000436). These proteins have been reported to be mitochondrial (Proteomics 2009, 9:434-450).

These proteins have been reported to be associated with mitochondrial membrane (Proteomics 2009, 9:5497-5508). The mRNA of these proteins have the UAG(G)UA(G/U) element, which is also found in the transcripts of many

cytochrome c oxidase subunits (Nucleic Acids Res 2006, 34:5312-5324).

Tb927.4.1360 is suggested as a PF-specific glycosomal protein (Proteomics 2006, 6:3275-3293).

Protein phosphatase 1 is known to regulate the activity of ribosomal protein S6 (J Biol Chem 1987, 262:14389-14393).