a

C

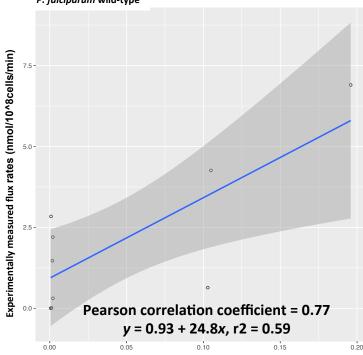
	iAM-Pf480
Genes	480
Reactions	1083
Gene associated (metabolic/transport)	738 (68%)
No gene association (metabolic)	76 (7%)
No gene association (transport)	160 (15%)
Exchange	92
Demand/Sink	16
Biomass	1
Metabolites	
Unique metabolites	617
Cytoplasmic	531
Apicoplast	109
Golgi	45
Mitochondria	82
Endoplasmic reticulum	26
Lysosome	9
Extracellular	107
Content evaluation	
Literature references used	332
Reactions supported by bibliomic evidence	732 (68%)
Blocked	222 (20%)

Experimental

b	iAM-Pf480	essential	non-essential	Accuracy (p value)	мсс
S	essential	7	0	95%	
tion	non-essential	1	13	(6.88e-05)	0.9

Predictions *i*AM-Pf480 Accuracy essential non-essential essential 42 1 71% non-16 essential

P. falciparum wild-type



Predicted sampled flux rates (nmol/10^8cells/min)

P. falciparum pyruvate dehydrogenase knock out

d Experimentally measured flux rates (nmol/10^8cells/min)

0.00

Predicted sampled flux rates (nmol/10^8cells/min)

Pearson correlation coefficient = 0.78

y = 0.62 + 22.7x, r2 = 0.6

0.20