SBML Model Report

Model name: "Teusink2000_Glycolysis"



May 6, 2016

1 General Overview

This is a document in SBML Level 2 Version 1 format. This model was created by the following three authors: Jacky L Snoep¹, Harish Dharuri² and Lukas Endler³ at September 16th 2008 at two o' clock in the afternoon. and last time modified at July 19th 2012 at 6:26 p.m. Table 1 provides an overview of the quantities of all components of this model.

Table 1: Number of components in this model, which are described in the following sections.

Element	Quantity	Element	Quantity
compartment types	0	compartments	2
species types	0	species	26
events	0	constraints	0
reactions	17	function definitions	3
global parameters	15	unit definitions	6
rules	3	initial assignments	0

Model Notes

Can yeast glycolysis be understood in terms of in vitro kinetics of the constituent enzymes? Testing biochemistry.

Teusink, B et al.: Eur J Biochem 2000 Sep; 267(17):5313-29.

The model reproduces the steady-state fluxes and metabolite concentrations of the branched model as given in Table 4 of the paper. It is derived from the model on JWS online, but has

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the ATP consumption in the succinate branch with the same stoichiometrie as in the publication. The model was successfully tested on copasi v.4.4(build 26).

For Vmax values, please note that there is a conversion factor of approx. 270 to convert from U/mg-protein as shown in Table 1 of the paper to mmol/(min*L_cytosol). The equilibrium constant for the ADH reaction in the paper is given for the reverse reaction (Keq = $1.45*10^4$). The value used in this model is for the forward reaction: $1/\text{Keq} = 6.9*10^{-5}$.

Vmax parameters values used (in [mM/min] except VmGLT):

VmGLT	97.264	mmol/min	
VmGLK	226.45		
VmPGI	339.667		
VmPFK	182.903		
VmALD	322.258		
VmGAPDH_f	1184.52		
VmGAPDH_r	6549.68		
VmPGK	1306.45		
VmPGM	2525.81		
VmENO	365.806		
VmPYK	1088.71		
VmPDC	174.194		
VmG3PDH	70.15		

The result of the G6P steady state concentration (marked in red) differs slightly from the one given in table 4. of the publication Results for steady state:

	orig. article	this model	
Fluxes[mM/min]			
Glucose	88	88	
Ethanol	129	129	
Glycogen	6	6	
Trehalose	4.8	4.8	(G6P flux through trehalose branch)
Glycerol	18.2	18.2	
Succinate	3.6	3.6	
Conc.[mM]			
G6P	1.07	1.03	
F6P	0.11	0.11	
F1,6P	0.6	0.6	
DHAP	0.74	0.74	
3PGA	0.36	0.36	
2PGA	0.04	0.04	
PEP	0.07	0.07	

PYR	8.52	8.52
AcAld	0.17	0.17
ATP	2.51	2.51
ADP	1.29	1.29
AMP	0.3	0.3
NAD	1.55	1.55
NADH	0.04	0.04

Authors of the publication also mentioned a few misprints in the original article: in the kinetic law for ADH :

- 1. the species a should denote NAD and bEthanol
- 2. the last term in the equation should read \underline{bpq} /(\underline{K}_{ib} \underline{K}_{iq} \underline{K}_p)

in the kinetic law for PFK:

```
1. R = 1 + {}_{1} + {}_{2} + g_{r-1} {}_{2}
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2. equation L should read: $L = L0*(...)^2*(...)^2*(...)^2$ not $L = L0*(...)^2*(...)^2*(...)^2$

To make the model easier to curate, the species \underline{ATP} , \underline{ADP} and \underline{AMP} were added. These are calculated via assignment rules from the active phosphate species, \underline{P} , and the sum of all \underline{AXP} , $\underline{SUM_P}$.

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To cite BioModels Database, please use: Li C, Donizelli M, Rodriguez N, Dharuri H, Endler L, Chelliah V, Li L, He E, Henry A, Stefan MI, Snoep JL, Hucka M, Le Novre N, Laibe C (2010) BioModels Database: An enhanced, curated and annotated resource for published quantitative kinetic models. BMC Syst Biol., 4:92.

2 Unit Definitions

This is an overview of nine unit definitions of which three are predefined by SBML and not mentioned in the model.

2.1 Unit substance

Name millimole

Definition mmol

2.2 Unit time

Name minute

Definition 60 s

2.3 Unit mM

Name mM

Definition $mmol \cdot l^{-1}$

2.4 Unit mMpermin

Name mMpermin

Definition $mmol \cdot l^{-1} \cdot (60 \text{ s})^{-1}$

2.5 Unit permin

Name permin

Definition $(60 \text{ s})^{-1}$

2.6 Unit mmolepermin

Name mmolepermin

Definition $mmol \cdot (60 \text{ s})^{-1}$

2.7 Unit volume

Notes Litre is the predefined SBML unit for volume.

Definition 1

2.8 Unit area

Notes Square metre is the predefined SBML unit for area since SBML Level 2 Version 1.

Definition m^2

2.9 Unit length

Notes Metre is the predefined SBML unit for length since SBML Level 2 Version 1.

Definition m

3 Compartments

This model contains two compartments.

Table 4: Properties of all compartments.

Id	Name	SBO	Spatial Dimensions	Size	Unit	Constant	Outside
extracellular			3	1	litre	✓	
cytosol			3	1	litre	\square	extracellular

3.1 Compartment extracellular

This is a three dimensional compartment with a constant size of one litre.

3.2 Compartment cytosol

This is a three dimensional compartment with a constant size of one litre, which is surrounded by extracellular.

This model contains 26 species. The boundary condition of seven of these species is set to true so that these species' amount cannot be changed by any reaction. Section 9 provides further details and the derived rates of change of each species.

Table 5: Properties of each species.

Id	Name	Compartment	Derived Unit	Constant	Boundary
					Condi-
					tion
GLCi	Glucose in Cytosol	cytosol	$\operatorname{mmol} \cdot l^{-1}$		
G6P	Glucose 6 Phosphate	cytosol	$\text{mmol} \cdot 1^{-1}$		
F6P	Fructose 6 Phosphate	cytosol	$\text{mmol} \cdot 1^{-1}$		\Box
F16P	Fructose-1,6 bisphosphate	cytosol	$\text{mmol} \cdot 1^{-1}$		
TRIO	Triose-phosphate	cytosol	$\text{mmol} \cdot 1^{-1}$		
BPG	1,3-bisphosphoglycerate	cytosol	$\operatorname{mmol} \cdot 1^{-1}$		
P3G	3-phosphoglycerate	cytosol	$\operatorname{mmol} \cdot 1^{-1}$		\Box
P2G	2-phosphoglycerate	cytosol	$\operatorname{mmol} \cdot 1^{-1}$		
PEP	Phosphoenolpyruvate	cytosol	$mmol \cdot l^{-1}$		
PYR	Pyruvate	cytosol	$mmol \cdot l^{-1}$		
ACE	Acetaldehyde	cytosol	$mmol \cdot l^{-1}$		
P	High energy phosphates	cytosol	$mmol \cdot l^{-1}$		
NAD	NAD	cytosol	$\operatorname{mmol} \cdot 1^{-1}$		
NADH	NADH	cytosol	$\operatorname{mmol} \cdot 1^{-1}$		\Box
Glyc	Glycogen	cytosol	$\mathrm{mmol}\cdot\mathrm{l}^{-1}$		
Trh	Trehalose	cytosol	$\text{mmol} \cdot 1^{-1}$		
C02	CO2	cytosol	$mmol \cdot l^{-1}$		
SUCC	Succinate	cytosol	$mmol \cdot l^{-1}$		
GLCo	Extracellular Glucose	extracellular	$mmol \cdot l^{-1}$		$ \overline{\mathbf{Z}} $
ETOH	Ethanol	cytosol	$\operatorname{mmol} \cdot 1^{-1}$		$ \overline{\mathbf{Z}} $
GLY	Glycerol	cytosol	$\operatorname{mmol} \cdot 1^{-1}$		$\overline{\mathbf{Z}}$

Id	Name	Compartment	Derived Unit	Constant	Boundary Condi- tion
ATP	ATP concentration	cytosol	$\text{mmol} \cdot 1^{-1}$		
ADP	ADP concentration	cytosol	$\operatorname{mmol} \cdot 1^{-1}$		
AMP	AMP concentration	cytosol	$\operatorname{mmol} \cdot 1^{-1}$		
SUM_P	sum of AXP conc	cytosol	$\operatorname{mmol} \cdot 1^{-1}$		
F26BP	F2,6P	cytosol	$\operatorname{mmol} \cdot 1^{-1}$		

5 Parameters

This model contains 15 global parameters.

Table 6: Properties of each parameter.

Id	Name	SBO	Value	Unit	Constant
gR			5.120	dimensionless	
KmPFKF6P			0.100	$\operatorname{mmol} \cdot 1^{-1}$	
KmPFKATP			0.710	$\operatorname{mmol} \cdot 1^{-1}$	
Lzero			0.660	dimensionless	
CiPFKATP			100.000	dimensionless	
KiPFKATP			0.650	$\operatorname{mmol} \cdot 1^{-1}$	
CPFKAMP			0.085	dimensionless	
KPFKAMP			0.100	$\operatorname{mmol} \cdot 1^{-1}$	
CPFKF26BP			0.017	dimensionless	
KPFKF26BP			$6.82 \cdot 10^{-4}$	$\operatorname{mmol} \cdot 1^{-1}$	
CPFKF16BP			0.397	dimensionless	
KPFKF16BP			0.111	$\operatorname{mmol} \cdot 1^{-1}$	
CPFKATP			3.000	dimensionless	
KeqAK	AK eq constant		0.450	dimensionless	$\overline{\mathscr{L}}$
KeqTPI	TPI eq constant		0.045	dimensionless	$\overline{\checkmark}$

6 Function definitions

This is an overview of three function definitions.

6.1 Function definition L_PFK

Name L_PFK

Arguments L, CiATP, KiATP, CAMP, KAMP, CF26BP, KF26BP, CF16BP, KF16BP, AT, AM, F16, F26

Mathematical Expression

$$L \cdot \left(\frac{1 + \text{CiATP} \cdot \frac{\text{AT}}{\text{KiATP}}}{1 + \frac{\text{AT}}{\text{KiATP}}}\right)^2 \cdot \left(\frac{1 + \text{CAMP} \cdot \frac{\text{AM}}{\text{KAMP}}}{1 + \frac{\text{AM}}{\text{KAMP}}}\right)^2 \cdot \left(\frac{1 + \frac{\text{CF26BP} \cdot \text{F26}}{\text{KF26BP}} + \frac{\text{CF16BP} \cdot \text{F16}}{\text{KF16BP}}}{1 + \frac{\text{F26}}{\text{KF26BP}} + \frac{\text{F16}}{\text{KF16BP}}}\right)^2 \tag{1}$$

6.2 Function definition R_PFK

Name R_PFK

Arguments KmF6P, KmATP, g, AT, F6

Mathematical Expression

$$1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (2)

6.3 Function definition T_PFK

Name T_PFK

Arguments CATP, KmATP, AT

Mathematical Expression

$$1 + CATP \cdot \frac{AT}{KmATP} \tag{3}$$

7 Rules

This is an overview of three rules.

7.1 Rule ADP

Rule ADP is an assignment rule for species ADP:

$$ADP = \frac{[SUM_P] - \left([P]^2 \cdot (1 - 4 \cdot KeqAK) + 2 \cdot [SUM_P] \cdot [P] \cdot (4 \cdot KeqAK - 1) + [SUM_P]^2\right)^{0.5}}{1 - 4 \cdot KeqAK}$$

7.2 Rule ATP

Rule ATP is an assignment rule for species ATP:

$$ATP = \frac{[P] - [ADP]}{2} \tag{5}$$

7.3 Rule AMP

Rule AMP is an assignment rule for species AMP:

$$AMP = [SUM_P] - [ATP] - [ADP]$$
(6)

Derived unit $mmol \cdot l^{-1}$

8 Reactions

This model contains 17 reactions. All reactions are listed in the following table and are subsequently described in detail. If a reaction is affected by a modifier, the identifier of this species is written above the reaction arrow.

Table 7: Overview of all reactions

N⁰	Id	Name	Reaction Equation	SBO
1	vGLK	Hexokinase	$GLCi + P \xrightarrow{ATP, ADP} G6P$	
2	vPGI	Glucose-6-phosphate isomerase	$GEP \rightleftharpoons F6P$	
3	vGLYCO	Glycogen synthesis	$G6P + P \longrightarrow Glyc$	
4	vGLTCU vTreha	Trehalose 6-phosphate synthase	$2 G6P + P \longrightarrow Trh$	
5	vPFK	Phosphofructokinase	$F6P + P \xrightarrow{AMP, ATP, F26BP} F16P$	
6	vALD	Aldolase	$F16P \rightleftharpoons 2 TRIO$	
7	vGAPDH	Glyceraldehyde 3-phosphate dehydrogenase	$TRIO + NAD \Longrightarrow BPG + NADH$	
8	vPGK	Phosphoglycerate kinase	$BPG \xrightarrow{ATP, ADP} P3G + P$	
9	vPGM	Phosphoglycerate mutase	$P3G \Longrightarrow P2G$	
10	vENO	Enolase	$P2G \Longrightarrow PEP$	
11	vPYK	Pyruvate kinase	$PEP \xrightarrow{ATP, ADP} PYR + P$	
12	vPDC	Pyruvate decarboxylase	$PYR \longrightarrow ACE + CO2$	
13	vSUC	Succinate synthesis	$2 ACE + 3 NAD + 4 P \longrightarrow 3 NADH + SUCC$	
14	vGLT	Glucose transport	GLCo === GLCi	
15	vADH	Alcohol dehydrogenase	$ACE + NADH \Longrightarrow NAD + ETOH$	
16	vG3PDH	Glycerol 3-phosphate dehydrogenase	$TRIO + NADH \longrightarrow NAD + GLY$	
17	vATP	ATPase activity	$P \stackrel{ATP}{\longleftarrow} \emptyset$	

8.1 Reaction vGLK

This is a reversible reaction of two reactants forming one product influenced by two modifiers.

Name Hexokinase

Reaction equation

$$GLCi + P \xrightarrow{ATP, ADP} G6P$$
 (7)

Reactants

Table 8: Properties of each reactant.

Id	Name	SBO
GLCi	Glucose in Cytosol	
P	High energy phosphates	

Modifiers

Table 9: Properties of each modifier.

Id	Name	SBO
ATP	ATP concentration	
ADP	ADP concentration	

Product

Table 10: Properties of each product.

Id	Name	SBO
G6P	Glucose 6 Phosphate	

Kinetic Law

Derived unit contains undeclared units

$$v_{1} = \frac{\frac{\text{vol(cytosol)} \cdot \text{VmGLK}}{\text{KmGLKGLCi} \cdot \text{KmGLKATP}} \cdot \left([\text{GLCi}] \cdot [\text{ATP}] - \frac{[\text{G6P}] \cdot [\text{ADP}]}{\text{KeqGLK}} \right)}{\left(1 + \frac{[\text{GLCi}]}{\text{KmGLKGLCi}} + \frac{[\text{G6P}]}{\text{KmGLKG6P}} \right) \cdot \left(1 + \frac{[\text{ATP}]}{\text{KmGLKATP}} + \frac{[\text{ADP}]}{\text{KmGLKADP}} \right)}$$
(8)

Table 11: Properties of each parameter.

Id	Name	SBO	Value	Unit	Constant
VmGLK			226.452	$\begin{array}{ccc} mmol & \cdot & 1^{-1} \\ (60 \text{ s})^{-1} & & \end{array}$	· 🗹
KmGLKGLCi			0.080	$\text{mmol} \cdot l^{-1}$	\square
KmGLKATP			0.150	$\operatorname{mmol} \cdot 1^{-1}$	
${\tt KeqGLK}$			3800.000	dimensionless	
KmGLKG6P			30.000	$\text{mmol} \cdot l^{-1}$	
KmGLKADP			0.230	$\text{mmol} \cdot l^{-1}$	\square

8.2 Reaction vPGI

This is a reversible reaction of one reactant forming one product.

Name Glucose-6-phosphate isomerase

Reaction equation

$$G6P \rightleftharpoons F6P$$
 (9)

Reactant

Table 12: Properties of each reactant.

Id	Name	SBO
G6P	Glucose 6 Phosphate	

Product

Table 13: Properties of each product.

	- I	
Id	Name	SBO
F6P	Fructose 6 Phosphate	

Kinetic Law

Derived unit contains undeclared units

$$v_{2} = \frac{\frac{\text{vol(cytosol)} \cdot \text{VmPGI}.2}{\text{KmPGIG6P}.2} \cdot \left([\text{G6P}] - \frac{[\text{F6P}]}{\text{KeqPGI}.2} \right)}{1 + \frac{[\text{G6P}]}{\text{KmPGIG6P}.2} + \frac{[\text{F6P}]}{\text{KmPGIF6P}.2}}$$
(10)

Table 14: Properties of each parameter.

Id	Name	SBO	Value	Unit	Constant
VmPGI_2			339.677	$\begin{array}{ccc} mmol & \cdot & 1^{-1} & \cdot \\ (60 \text{ s})^{-1} & & \end{array}$	
${\tt KmPGIG6P_2}$			1.400	$\text{mmol} \cdot 1^{-1}$	
${\tt KeqPGI_2}$			0.314	dimensionless	
${\tt KmPGIF6P_2}$			0.300	$\operatorname{mmol} \cdot 1^{-1}$	

8.3 Reaction vGLYCO

This is an irreversible reaction of two reactants forming one product.

Name Glycogen synthesis

Reaction equation

$$G6P + P \longrightarrow Glyc$$
 (11)

Reactants

Table 15: Properties of each reactant.

Table 13. I Toperties of each reactant.				
Id	Name	SBO		
G6P P	Glucose 6 Phosphate High energy phosphates			

Product

Table 16: Properties of each product.

Id	Name	SBO
Glyc	Glycogen	

Kinetic Law

Derived unit $mmol \cdot (60 \text{ s})^{-1}$

$$v_3 = \text{vol}(\text{cytosol}) \cdot \text{KGLYCOGEN}_3$$
 (12)

Table 17: Properties of each parameter.

Id	Name	SBO	Value	Unit	Constant
KGLYCOGEN_3			6.0	$\begin{array}{ccc} \text{mmol} & \cdot & 1^{-1} & \cdot \\ (60 \text{ s})^{-1} & \cdot & \cdot \end{array}$	

8.4 Reaction vTreha

This is an irreversible reaction of two reactants forming one product.

Name Trehalose 6-phosphate synthase

Reaction equation

$$2G6P + P \longrightarrow Trh$$
 (13)

Reactants

Table 18: Properties of each reactant.

	rable 10: 110 perties of each reactant.				
Id	Name	SBO			
G6P P	Glucose 6 Phosphate High energy phosphates				

Product

Table 19: Properties of each product.

Id	Name	SBO
Trh	Trehalose	

Kinetic Law

Derived unit $mmol \cdot (60 \text{ s})^{-1}$

$$v_4 = \text{vol}\left(\text{cytosol}\right) \cdot \text{KTREHALOSE}$$
 (14)

Table 20: Properties of each parameter.

Id	Name	SBO	Value	Unit	Constant
KTREHALOSE			2.4	$\begin{array}{ccc} \operatorname{mmol} & \cdot & l^{-1} & \cdot \\ (60 \mathrm{s})^{-1} & & \end{array}$	Ø

8.5 Reaction vPFK

This is an irreversible reaction of two reactants forming one product influenced by three modifiers.

Name Phosphofructokinase

Reaction equation

$$F6P + P \xrightarrow{AMP, ATP, F26BP} F16P$$
 (15)

Reactants

Table 21: Properties of each reactant.

Id	Name	SBO
F6P	Fructose 6 Phosphate	
P	High energy phosphates	

Modifiers

Table 22: Properties of each modifier.

Id	Name	SBO
AMP ATP F26BP	AMP concentration ATP concentration F2,6P	

Product

Table 23: Properties of each product.

Id	Name	SBO
F16P	Fructose-1,6 bisphosphate	

Kinetic Law

Derived unit contains undeclared units

(16) v_5 $\underbrace{vol\left(cytosol\right)\cdot VmPFK\cdot gR}_{}\cdot \underbrace{\frac{[F6P]}{KmPFKF6}}_{}$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (17)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (18)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (19)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (20)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (21)$$

$$R.PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (22)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(23)

$$R.PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (24)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (25)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (26)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (27)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (28)$$

$$R.PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (29)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (30)$$

$$R.PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (31)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (32)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (33)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (34)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (35)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (36)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (37)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (38)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(39)

$$R.PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(40)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (41)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (42)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (43)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (44)$$

$$R.PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (45)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (46)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (47)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (48)$$

$$R.PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (49)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (50)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (51)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (52)$$

$$R_PFK(KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(53)

$$R.PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (54)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (55)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (56)$$

$$CF16BP, KF16BP, AT, AM, F16, F26) = L \cdot \left(\frac{1 + CiATP \cdot \frac{AT}{KiATP}}{1 + \frac{AT}{KiATP}}\right)^{2}$$

$$\cdot \left(\frac{1 + CAMP \cdot \frac{AM}{KAMP}}{1 + \frac{AM}{KAMP}}\right)^{2} \cdot \left(\frac{1 + \frac{CF26BP \cdot F26}{KF26BP} + \frac{CF16BP \cdot F16}{KF16BP}}{1 + \frac{F26}{KF26BP} + \frac{F16}{KF16BP}}\right)^{2}$$
(57)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (58)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (59)$$

$$R_PFK(KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(60)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (61)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (62)$$

$$R.PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(63)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (64)$$

$$R.PFK(KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(65)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (66)$$

$$R.PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(67)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (68)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (69)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (70)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (71)$$

$$R.PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (72)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (73)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (74)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (75)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (76)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (77)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (78)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (79)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(80)

$$R.PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(81)

$$R.PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (82)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (83)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (84)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (85)$$

$$R.PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (86)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (87)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (88)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (89)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (90)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (91)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (92)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (93)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(94)

$$R.PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(95)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (96)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (97)$$

$$CF16BP, KF16BP, AT, AM, F16, F26) = L \cdot \left(\frac{1 + CiATP \cdot \frac{AT}{KiATP}}{1 + \frac{AT}{KiATP}}\right)^{2}$$

$$\cdot \left(\frac{1 + CAMP \cdot \frac{AM}{KAMP}}{1 + \frac{AM}{KAMP}}\right)^{2} \cdot \left(\frac{1 + \frac{CF26BP \cdot F26}{KF26BP} + \frac{CF16BP \cdot F16}{KF16BP}}{1 + \frac{F26}{KF26BP} + \frac{F16}{KF16BP}}\right)^{2}$$
(98)

$$T_PFK\left(CATP,KmATP,AT\right) = 1 + CATP \cdot \frac{AT}{KmATP} \tag{99}$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (100)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (101)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (102)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (103)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (104)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (105)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (106)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (107)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (108)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (109)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (110)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (111)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (112)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (113)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (114)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (115)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (116)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (117)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (118)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (119)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (120)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (121)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (122)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (123)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (124)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (125)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (126)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (127)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (128)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (129)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (130)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (131)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (132)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (133)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (134)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (135)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (136)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (137)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (138)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (139)$$

$$CF16BP, KF16BP, AT, AM, F16, F26) = L \cdot \left(\frac{1 + CiATP \cdot \frac{AT}{KiATP}}{1 + \frac{AT}{KiATP}}\right)^{2}$$

$$\cdot \left(\frac{1 + CAMP \cdot \frac{AM}{KAMP}}{1 + \frac{AM}{KAMP}}\right)^{2} \cdot \left(\frac{1 + \frac{CF26BP \cdot F26}{KF26BP} + \frac{CF16BP \cdot F16}{KF16BP}}{1 + \frac{F26}{KF26BP} + \frac{F16}{KF16BP}}\right)^{2}$$
(140)

$$R_PFK(KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(141)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (142)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (143)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (144)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (145)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (146)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (147)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (148)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (149)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (150)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (151)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (152)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (153)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (154)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (155)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (156)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (157)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (158)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (159)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (160)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (161)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (162)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (163)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (164)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (165)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (166)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (167)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (168)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (169)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (170)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (171)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (172)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (173)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (174)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (175)$$

$$R_PFK(KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(176)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (177)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (178)$$

$$R_PFK(KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(179)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (180)$$

$$CF16BP, KF16BP, AT, AM, F16, F26) = L \cdot \left(\frac{1 + CiATP \cdot \frac{AT}{KiATP}}{1 + \frac{AT}{KiATP}}\right)^{2}$$

$$\cdot \left(\frac{1 + CAMP \cdot \frac{AM}{KAMP}}{1 + \frac{AM}{KAMP}}\right)^{2} \cdot \left(\frac{1 + \frac{CF26BP \cdot F26}{KF26BP} + \frac{CF16BP \cdot F16}{KF16BP}}{1 + \frac{F26}{KF26BP} + \frac{F16}{KF16BP}}\right)^{2}$$
(181)

$$T_{PFK}(CATP, KmATP, AT) = 1 + CATP \cdot \frac{AT}{KmATP}$$
(182)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (183)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (184)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (185)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (186)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (187)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (188)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (189)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(190)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (191)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (192)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (193)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (194)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (195)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (196)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (197)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (198)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (199)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (200)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (201)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (202)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (203)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (204)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (205)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (206)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (207)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (208)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (209)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (210)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (211)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (212)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (213)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (214)$$

$$R_PFK(KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(215)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (216)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (217)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (218)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (219)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (220)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (221)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (222)$$

$$CF16BP, KF16BP, AT, AM, F16, F26) = L \cdot \left(\frac{1 + CiATP \cdot \frac{AT}{KiATP}}{1 + \frac{AT}{KiATP}}\right)^{2}$$

$$\cdot \left(\frac{1 + CAMP \cdot \frac{AM}{KAMP}}{1 + \frac{AM}{KAMP}}\right)^{2} \cdot \left(\frac{1 + \frac{CF26BP \cdot F26}{KF26BP} + \frac{CF16BP \cdot F16}{KF16BP}}{1 + \frac{F26}{KF26BP} + \frac{F16}{KF16BP}}\right)^{2}$$
(223)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (224)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (225)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (226)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (227)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (228)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (229)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (230)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (231)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (232)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (233)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (234)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (235)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (236)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (237)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (238)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (239)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (240)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (241)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (242)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (243)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (244)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (245)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (246)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (247)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (248)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (249)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (250)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (251)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (252)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (253)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (254)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (255)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (256)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (257)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (258)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (259)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (260)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (261)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (262)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (263)$$

$$CF16BP, KF16BP, AT, AM, F16, F26) = L \cdot \left(\frac{1 + CiATP \cdot \frac{AT}{KiATP}}{1 + \frac{AT}{KiATP}}\right)^{2}$$

$$\cdot \left(\frac{1 + CAMP \cdot \frac{AM}{KAMP}}{1 + \frac{AM}{KAMP}}\right)^{2} \cdot \left(\frac{1 + \frac{CF26BP \cdot F26}{KF26BP} + \frac{CF16BP \cdot F16}{KF16BP}}{1 + \frac{F26}{KF26BP} + \frac{F16}{KF16BP}}\right)^{2}$$
(264)

$$T_{PFK}(CATP, KmATP, AT) = 1 + CATP \cdot \frac{AT}{KmATP}$$
 (265)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (266)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (267)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (268)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (269)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (270)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (271)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(272)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (273)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (274)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (275)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (276)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (277)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (278)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (279)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (280)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (281)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (282)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (283)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (284)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (285)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (286)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (287)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (288)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (289)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (290)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (291)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (292)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (293)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (294)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (295)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (296)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (297)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (298)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (299)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (300)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (301)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (302)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (303)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (304)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (305)$$

$$\text{CF16BP, KF16BP, AT, AM, F16, F26)} = L \cdot \left(\frac{1 + \text{CiATP} \cdot \frac{\text{AT}}{\text{KiATP}}}{1 + \frac{\text{AT}}{\text{KiATP}}} \right)^{2}$$

$$\cdot \left(\frac{1 + \text{CAMP} \cdot \frac{\text{AM}}{\text{KAMP}}}{1 + \frac{\text{AM}}{\text{KAMP}}} \right)^{2} \cdot \left(\frac{1 + \frac{\text{CF26BP} \cdot \text{F26}}{\text{KF26BP}} + \frac{\text{CF16BP} \cdot \text{F16}}{\text{KF16BP}}}{1 + \frac{\text{F26}}{\text{KF26BP}} + \frac{\text{F16}}{\text{KF16BP}}} \right)^{2}$$

$$(306)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (307)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (308)$$

$$R_PFK(KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(309)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (310)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (311)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (312)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (313)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (314)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (315)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (316)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (317)$$

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$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (319)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (320)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (321)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (322)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (323)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (324)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (325)$$

$$R_PFK(KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(326)

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (327)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (328)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (329)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (330)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (331)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (332)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (333)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (334)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (335)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (336)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (337)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (338)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (339)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(340)

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (341)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (342)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (343)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (344)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (345)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (346)$$

$$\text{CF16BP}, \text{KF16BP}, \text{AT}, \text{AM}, \text{F16}, \text{F26}) = L \cdot \left(\frac{1 + \text{CiATP} \cdot \frac{\text{AT}}{\text{KiATP}}}{1 + \frac{\text{AT}}{\text{KiATP}}} \right)^{2}$$

$$\cdot \left(\frac{1 + \text{CAMP} \cdot \frac{\text{AM}}{\text{KAMP}}}{1 + \frac{\text{AM}}{\text{KAMP}}} \right)^{2} \cdot \left(\frac{1 + \frac{\text{CF26BP} \cdot \text{F26}}{\text{KF26BP}} + \frac{\text{CF16BP} \cdot \text{F16}}{\text{KF16BP}}}{1 + \frac{\text{F26}}{\text{KF26BP}} + \frac{\text{F16}}{\text{KF16BP}}} \right)^{2}$$

$$(347)$$

$$T_PFK(CATP, KmATP, AT) = 1 + CATP \cdot \frac{AT}{KmATP}$$
 (348)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (349)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (350)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (351)$$

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$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (358)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (359)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (360)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (361)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (362)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (363)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (364)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (365)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (366)$$

$$R_PFK(KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(367)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (368)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (369)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (370)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (371)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (372)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (373)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (374)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (375)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (376)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (377)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (378)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (379)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (380)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (381)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (382)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (383)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (384)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (385)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (386)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (387)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (388)$$

$$CF16BP, KF16BP, AT, AM, F16, F26) = L \cdot \left(\frac{1 + CiATP \cdot \frac{AT}{KiATP}}{1 + \frac{AT}{KiATP}}\right)^{2}$$

$$\cdot \left(\frac{1 + CAMP \cdot \frac{AM}{KAMP}}{1 + \frac{AM}{KAMP}}\right)^{2} \cdot \left(\frac{1 + \frac{CF26BP \cdot F26}{KF26BP} + \frac{CF16BP \cdot F16}{KF16BP}}{1 + \frac{F26}{KF26BP} + \frac{F16}{KF16BP}}\right)^{2}$$
(389)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (390)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (391)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (392)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (393)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (394)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (395)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (396)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (397)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (398)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (399)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (400)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (401)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (402)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (403)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (404)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (405)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (406)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (407)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (408)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (409)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (410)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (411)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (412)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (413)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (414)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (415)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (416)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (417)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (418)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (419)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (420)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (421)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (422)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (423)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (424)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (425)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (426)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (427)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (428)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (429)$$

$$CF16BP, KF16BP, AT, AM, F16, F26) = L \cdot \left(\frac{1 + CiATP \cdot \frac{AT}{KiATP}}{1 + \frac{AT}{KiATP}}\right)^{2}$$

$$\cdot \left(\frac{1 + CAMP \cdot \frac{AM}{KAMP}}{1 + \frac{AM}{KAMP}}\right)^{2} \cdot \left(\frac{1 + \frac{CF26BP \cdot F26}{KF26BP} + \frac{CF16BP \cdot F16}{KF16BP}}{1 + \frac{F26}{KF26BP} + \frac{F16}{KF16BP}}\right)^{2}$$
(430)

$$T_{PFK}(CATP, KmATP, AT) = 1 + CATP \cdot \frac{AT}{KmATP}$$
(431)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (432)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (433)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (434)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (435)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (436)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (437)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (438)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (439)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (440)$$

$$R.PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (441)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (442)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (443)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (444)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (445)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (446)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (447)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (448)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (449)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (450)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (451)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (452)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (453)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (454)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (455)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (456)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (457)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (458)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (459)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (460)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (461)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (462)$$

$$R_PFK(KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(463)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (464)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (465)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (466)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (467)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (468)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (469)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (470)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (471)$$

$$CF16BP, KF16BP, AT, AM, F16, F26) = L \cdot \left(\frac{1 + CiATP \cdot \frac{AT}{KiATP}}{1 + \frac{AT}{KiATP}}\right)^{2}$$

$$\cdot \left(\frac{1 + CAMP \cdot \frac{AM}{KAMP}}{1 + \frac{AM}{KAMP}}\right)^{2} \cdot \left(\frac{1 + \frac{CF26BP \cdot F26}{KF26BP} + \frac{CF16BP \cdot F16}{KF16BP}}{1 + \frac{F26}{KF26BP} + \frac{F16}{KF16BP}}\right)^{2}$$
(472)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (473)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (474)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (475)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (476)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (477)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (478)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (479)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (480)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (481)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (482)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (483)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (484)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (485)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (486)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (487)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (488)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (489)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (490)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (491)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (492)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (493)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (494)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (495)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (496)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (497)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (498)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (499)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (500)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (501)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (502)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (503)$$

$$R_PFK(KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(504)

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (505)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (506)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (507)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (508)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (509)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (510)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (511)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (512)$$

$$CF16BP, KF16BP, AT, AM, F16, F26) = L \cdot \left(\frac{1 + CiATP \cdot \frac{AT}{KiATP}}{1 + \frac{AT}{KiATP}}\right)^{2}$$

$$\cdot \left(\frac{1 + CAMP \cdot \frac{AM}{KAMP}}{1 + \frac{AM}{KAMP}}\right)^{2} \cdot \left(\frac{1 + \frac{CF26BP \cdot F26}{KF26BP} + \frac{CF16BP \cdot F16}{KF16BP}}{1 + \frac{F26}{KF26BP} + \frac{F16BP}{KF16BP}}\right)^{2}$$
(513)

$$T_PFK\left(CATP, KmATP, AT\right) = 1 + CATP \cdot \frac{AT}{KmATP}$$
 (514)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (515)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (516)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (517)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (518)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (519)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (520)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (521)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (522)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (523)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (524)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (525)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (526)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (527)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (528)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (529)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (530)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (531)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (532)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (533)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (534)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (535)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (536)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (537)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (538)$$

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$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (542)$$

$$R_PFK(KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (543)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (544)$$

$$R_PFK(KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (545)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (546)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (547)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (548)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (549)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (550)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (551)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (552)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (553)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (554)$$

$$CF16BP, KF16BP, AT, AM, F16, F26) = L \cdot \left(\frac{1 + CiATP \cdot \frac{AT}{KiATP}}{1 + \frac{AT}{KiATP}}\right)^{2}$$

$$\cdot \left(\frac{1 + CAMP \cdot \frac{AM}{KAMP}}{1 + \frac{AM}{KAMP}}\right)^{2} \cdot \left(\frac{1 + \frac{CF26BP \cdot F26}{KF26BP} + \frac{CF16BP \cdot F16}{KF16BP}}{1 + \frac{F26}{KF26BP} + \frac{F16}{KF16BP}}\right)^{2}$$
(555)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (556)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (557)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (558)$$

$$R.PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (559)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (560)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (561)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (562)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (563)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (564)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (565)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (566)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (567)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (568)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (569)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (570)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (571)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (572)

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (573)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (574)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (575)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (576)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (577)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (578)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (579)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (580)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (581)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (582)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (583)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (584)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (585)$$

$$R_PFK(KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(586)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (587)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (588)$$

$$R_PFK(KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(589)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (590)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (591)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (592)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (593)$$

$$R_PFK(KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(594)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (595)$$

$$CF16BP, KF16BP, AT, AM, F16, F26) = L \cdot \left(\frac{1 + CiATP \cdot \frac{AT}{KiATP}}{1 + \frac{AT}{KiATP}}\right)^{2}$$

$$\cdot \left(\frac{1 + CAMP \cdot \frac{AM}{KAMP}}{1 + \frac{AM}{KAMP}}\right)^{2} \cdot \left(\frac{1 + \frac{CF26BP \cdot F26}{KF26BP} + \frac{CF16BP \cdot F16}{KF16BP}}{1 + \frac{F26}{KF26BP} + \frac{F16}{KF16BP}}\right)^{2}$$
(596)

$$T_PFK(CATP, KmATP, AT) = 1 + CATP \cdot \frac{AT}{KmATP}$$
 (597)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (598)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (599)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (600)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (601)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (602)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (603)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (604)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (605)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (606)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (607)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (608)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (609)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (610)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (611)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (612)$$

$$R_PFK(KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(613)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (614)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (615)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (616)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (617)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (618)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (619)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (620)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (621)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (622)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (623)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (624)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (625)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (626)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (627)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (628)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (629)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (630)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (631)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (632)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (633)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (634)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (635)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (636)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (637)$$

$$\text{CF16BP}, \text{KF16BP}, \text{AT}, \text{AM}, \text{F16}, \text{F26}) = L \cdot \left(\frac{1 + \text{CiATP} \cdot \frac{\text{AT}}{\text{KiATP}}}{1 + \frac{\text{AT}}{\text{KiATP}}} \right)^{2}$$

$$\cdot \left(\frac{1 + \text{CAMP} \cdot \frac{\text{AM}}{\text{KAMP}}}{1 + \frac{\text{AM}}{\text{KAMP}}} \right)^{2} \cdot \left(\frac{1 + \frac{\text{CF26BP} \cdot \text{F26}}{\text{KF26BP}} + \frac{\text{CF16BP} \cdot \text{F16}}{\text{KF16BP}}}{1 + \frac{\text{F26}}{\text{KF26BP}} + \frac{\text{F16}}{\text{KF16BP}}} \right)^{2}$$

$$(638)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (639)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (640)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (641)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (642)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (643)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (644)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (645)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (646)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (647)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (648)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (649)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (650)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (651)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (652)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (653)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (654)$$

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$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (656)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (657)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (658)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (659)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (660)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (661)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (662)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (663)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (664)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (665)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (666)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (667)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (668)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (669)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (670)$$

$$R_PFK(KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(671)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (672)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (673)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (674)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (675)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (676)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (677)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (678)$$

$$CF16BP, KF16BP, AT, AM, F16, F26) = L \cdot \left(\frac{1 + CiATP \cdot \frac{AT}{KiATP}}{1 + \frac{AT}{KiATP}}\right)^{2}$$

$$\cdot \left(\frac{1 + CAMP \cdot \frac{AM}{KAMP}}{1 + \frac{AM}{KAMP}}\right)^{2} \cdot \left(\frac{1 + \frac{CF26BP \cdot F26}{KF26BP} + \frac{CF16BP \cdot F16}{KF16BP}}{1 + \frac{F26}{KF26BP} + \frac{F16}{KF16BP}}\right)^{2}$$
(679)

$$T_PFK\left(CATP,KmATP,AT\right) = 1 + CATP \cdot \frac{AT}{KmATP} \tag{680}$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (681)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (682)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (683)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (684)$$

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$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (686)$$

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$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (691)$$

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$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (703)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (704)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (705)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (706)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (707)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (708)$$

$$R_PFK(KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(709)

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (710)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (711)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (712)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (713)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (714)$$

$$R_PFK(KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(715)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (716)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (717)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (718)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (719)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (720)$$

$$CF16BP, KF16BP, AT, AM, F16, F26) = L \cdot \left(\frac{1 + CiATP \cdot \frac{AT}{KiATP}}{1 + \frac{AT}{KiATP}}\right)^{2}$$

$$\cdot \left(\frac{1 + CAMP \cdot \frac{AM}{KAMP}}{1 + \frac{AM}{KAMP}}\right)^{2} \cdot \left(\frac{1 + \frac{CF26BP \cdot F26}{KF26BP} + \frac{CF16BP \cdot F16}{KF16BP}}{1 + \frac{F26}{KF26BP} + \frac{F16}{KF16BP}}\right)^{2}$$
(721)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (722)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (723)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (724)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (725)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (726)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (727)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (728)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (729)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (730)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (731)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (732)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (733)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (734)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (735)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (736)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (737)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (738)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (739)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (740)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (741)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (742)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (743)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (744)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (745)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (746)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (747)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (748)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (749)$$

$$R_PFK(KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (750)

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (751)$$

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$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (753)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (754)$$

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$$CF16BP, KF16BP, AT, AM, F16, F26) = L \cdot \left(\frac{1 + CiATP \cdot \frac{AT}{KiATP}}{1 + \frac{AT}{KiATP}}\right)^{2}$$

$$\cdot \left(\frac{1 + CAMP \cdot \frac{AM}{KAMP}}{1 + \frac{AM}{KAMP}}\right)^{2} \cdot \left(\frac{1 + \frac{CF26BP \cdot F26}{KF26BP} + \frac{CF16BP \cdot F16}{KF16BP}}{1 + \frac{F26}{KF26BP} + \frac{F16}{KF16BP}}\right)^{2}$$
(762)

$$T_{\cdot}PFK(CATP, KmATP, AT) = 1 + CATP \cdot \frac{AT}{KmATP}$$
 (763)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (764)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (765)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (766)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (767)$$

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$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (772)$$

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$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (776)$$

$$R_PFK(KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(777)

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (778)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (779)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (780)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (781)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (782)$$

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$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (785)$$

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$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (787)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (788)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (789)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (790)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (791)$$

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$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (795)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (796)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (797)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (798)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (799)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (800)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (801)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (802)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (803)$$

$$\text{CF16BP}, \text{KF16BP}, \text{AT}, \text{AM}, \text{F16}, \text{F26}) = L \cdot \left(\frac{1 + \text{CiATP} \cdot \frac{\text{AT}}{\text{KiATP}}}{1 + \frac{\text{AT}}{\text{KiATP}}} \right)^{2}$$

$$\cdot \left(\frac{1 + \text{CAMP} \cdot \frac{\text{AM}}{\text{KAMP}}}{1 + \frac{\text{AM}}{\text{KAMP}}} \right)^{2} \cdot \left(\frac{1 + \frac{\text{CF26BP} \cdot \text{F26}}{\text{KF26BP}} + \frac{\text{CF16BP} \cdot \text{F16}}{\text{KF16BP}}}{1 + \frac{\text{F26}}{\text{KF26BP}} + \frac{\text{F16}}{\text{KF16BP}}} \right)^{2}$$
 (804)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (805)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (806)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (807)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (808)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (809)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (810)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (811)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (812)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (813)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (814)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (815)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (816)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (817)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (818)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (819)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (820)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (821)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (822)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (823)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (824)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (825)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (826)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (827)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (828)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (829)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (830)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (831)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (832)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (833)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (834)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (835)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (836)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (837)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (838)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (839)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (840)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (841)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (842)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (843)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (844)$$

$$CF16BP, KF16BP, AT, AM, F16, F26) = L \cdot \left(\frac{1 + CiATP \cdot \frac{AT}{KiATP}}{1 + \frac{AT}{KiATP}}\right)^{2}$$

$$\cdot \left(\frac{1 + CAMP \cdot \frac{AM}{KAMP}}{1 + \frac{AM}{KAMP}}\right)^{2} \cdot \left(\frac{1 + \frac{CF26BP \cdot F26}{KF26BP} + \frac{CF16BP \cdot F16}{KF16BP}}{1 + \frac{F26}{KF26BP} + \frac{F16}{KF16BP}}\right)^{2}$$
(845)

$$T_{PFK}(CATP, KmATP, AT) = 1 + CATP \cdot \frac{AT}{KmATP}$$
(846)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (847)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (848)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (849)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (850)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (851)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (852)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (853)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (854)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (855)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (856)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (857)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (858)$$

$$R_PFK(KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(859)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (860)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (861)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (862)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (863)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (864)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (865)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (866)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (867)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (868)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (869)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (870)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (871)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (872)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (873)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (874)$$

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$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (877)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (878)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (879)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (880)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (881)$$

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$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (884)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (885)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (886)$$

$$CF16BP, KF16BP, AT, AM, F16, F26) = L \cdot \left(\frac{1 + CiATP \cdot \frac{AT}{KiATP}}{1 + \frac{AT}{KiATP}}\right)^{2}$$

$$\cdot \left(\frac{1 + CAMP \cdot \frac{AM}{KAMP}}{1 + \frac{AM}{KAMP}}\right)^{2} \cdot \left(\frac{1 + \frac{CF26BP \cdot F26}{KF26BP} + \frac{CF16BP \cdot F16}{KF16BP}}{1 + \frac{F26}{KF26BP} + \frac{F16}{KF16BP}}\right)^{2}$$
(887)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (888)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (889)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (890)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (891)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (892)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (893)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (894)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (895)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (896)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (897)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (898)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (899)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (900)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (901)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (902)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (903)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (904)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (905)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (906)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (907)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (908)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (909)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (910)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (911)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (912)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (913)$$

$$R_PFK(KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (914)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (915)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (916)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (917)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (918)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (919)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (920)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (921)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (922)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (923)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (924)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (925)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (926)$$

$$R_PFK(KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(927)

$$CF16BP, KF16BP, AT, AM, F16, F26) = L \cdot \left(\frac{1 + CiATP \cdot \frac{AT}{KiATP}}{1 + \frac{AT}{KiATP}}\right)^{2}$$

$$\cdot \left(\frac{1 + CAMP \cdot \frac{AM}{KAMP}}{1 + \frac{AM}{KAMP}}\right)^{2} \cdot \left(\frac{1 + \frac{CF26BP \cdot F26}{KF26BP} + \frac{CF16BP \cdot F16}{KF16BP}}{1 + \frac{F26}{KF26BP} + \frac{F16}{KF16BP}}\right)^{2}$$
(928)

$$T.PFK(CATP, KmATP, AT) = 1 + CATP \cdot \frac{AT}{KmATP}$$
(929)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (930)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (931)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (932)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (933)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (934)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (935)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (936)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (937)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (938)$$

$$R_PFK(KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (939)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (940)$$

$$R_PFK(KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (941)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (942)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (943)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (944)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (945)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (946)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (947)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (948)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (949)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (950)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (951)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (952)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (953)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (954)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (955)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (956)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (957)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (958)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (959)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (960)$$

$$R_PFK(KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (961)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (962)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (963)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (964)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (965)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (966)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (967)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (968)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (969)$$

$$CF16BP, KF16BP, AT, AM, F16, F26) = L \cdot \left(\frac{1 + CiATP \cdot \frac{AT}{KiATP}}{1 + \frac{AT}{KiATP}}\right)^{2}$$

$$\cdot \left(\frac{1 + CAMP \cdot \frac{AM}{KAMP}}{1 + \frac{AM}{KAMP}}\right)^{2} \cdot \left(\frac{1 + \frac{CF26BP \cdot F26}{KF26BP} + \frac{CF16BP \cdot F16}{KF16BP}}{1 + \frac{F26}{KF26BP} + \frac{F16}{KF16BP}}\right)^{2}$$
(970)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (971)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (972)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (973)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (974)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (975)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (976)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (977)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (978)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (979)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (980)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (981)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (982)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (983)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (984)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (985)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (986)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (987)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (988)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (989)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (990)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (991)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (992)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (993)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (994)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (995)$$

$$R_PFK(KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (996)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (997)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (998)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (999)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1000)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1001)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1002)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1003)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1004)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1005)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1006)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1007)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1008)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1009)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1010)$$

$$CF16BP, KF16BP, AT, AM, F16, F26) = L \cdot \left(\frac{1 + CiATP \cdot \frac{AT}{KiATP}}{1 + \frac{AT}{KiATP}}\right)^{2}$$

$$\cdot \left(\frac{1 + CAMP \cdot \frac{AM}{KAMP}}{1 + \frac{AM}{KAMP}}\right)^{2} \cdot \left(\frac{1 + \frac{CF26BP \cdot F26}{KF26BP} + \frac{CF16BP \cdot F16}{KF16BP}}{1 + \frac{F26}{KF26BP} + \frac{F16}{KF16BP}}\right)^{2}$$
(1011)

$$T_PFK\left(CATP,KmATP,AT\right) = 1 + CATP \cdot \frac{AT}{KmATP} \tag{1012}$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1013)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1014)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1015)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1016)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1017)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1018)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1019)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1020)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1021)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1022)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1023)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1024)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1025)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1026)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1027)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1028)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1029)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1030)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1031)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1032)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1033)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1034)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1035)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1036)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1037)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1038)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1039)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1040)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1041)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1042)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1043)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1044)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1045)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1046)$$

$$R_PFK(KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(1047)

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1048)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1049)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1050)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1051)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1052)$$

$$CF16BP, KF16BP, AT, AM, F16, F26) = L \cdot \left(\frac{1 + CiATP \cdot \frac{AT}{KiATP}}{1 + \frac{AT}{KiATP}}\right)^{2}$$

$$\cdot \left(\frac{1 + CAMP \cdot \frac{AM}{KAMP}}{1 + \frac{AM}{KAMP}}\right)^{2} \cdot \left(\frac{1 + \frac{CF26BP \cdot F26}{KF26BP} + \frac{CF16BP \cdot F16}{KF16BP}}{1 + \frac{F26}{KF26BP} + \frac{F16}{KF16BP}}\right)^{2}$$
(1053)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1054)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1055)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1056)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1057)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1058)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1059)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1060)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1061)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1062)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1063)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1064)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1065)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1066)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1067)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1068)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1069)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1070)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1071)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1072)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1073)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1074)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1075)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1076)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1077)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1078)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1079)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1080)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1081)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1082)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1083)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1084)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1085)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1086)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1087)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1088)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1089)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1090)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1091)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1092)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1093)$$

 $L_PFK\,(L,CiATP,KiATP,CAMP,KAMP,CF26BP,KF26BP,$

$$CF16BP, KF16BP, AT, AM, F16, F26) = L \cdot \left(\frac{1 + CiATP \cdot \frac{AT}{KiATP}}{1 + \frac{AT}{KiATP}}\right)^{2}$$

$$\cdot \left(\frac{1 + CAMP \cdot \frac{AM}{KAMP}}{1 + \frac{AM}{KAMP}}\right)^{2} \cdot \left(\frac{1 + \frac{CF26BP \cdot F26}{KF26BP} + \frac{CF16BP \cdot F16}{KF16BP}}{1 + \frac{F26}{KF26BP} + \frac{F16}{KF16BP}}\right)^{2}$$
(1094)

$$T_{PFK}(CATP, KmATP, AT) = 1 + CATP \cdot \frac{AT}{KmATP}$$
(1095)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1096)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1097)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1098)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1099)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1100)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1101)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1102)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1103)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (1104)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1105)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1106)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1107)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1108)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1109)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1110)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1111)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1112)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1113)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1114)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1115)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1116)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1117)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1118)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1119)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1120)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1121)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1122)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1123)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1124)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1125)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1126)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1127)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1128)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1129)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1130)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (1131)

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1132)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1133)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(1134)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1135)$$

$$CF16BP, KF16BP, AT, AM, F16, F26) = L \cdot \left(\frac{1 + CiATP \cdot \frac{AT}{KiATP}}{1 + \frac{AT}{KiATP}}\right)^{2}$$

$$\cdot \left(\frac{1 + CAMP \cdot \frac{AM}{KAMP}}{1 + \frac{AM}{KAMP}}\right)^{2} \cdot \left(\frac{1 + \frac{CF26BP \cdot F26}{KF26BP} + \frac{CF16BP \cdot F16}{KF16BP}}{1 + \frac{F26}{KF26BP} + \frac{F16}{KF16BP}}\right)^{2}$$
(1136)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1137)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1138)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1139)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1140)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1141)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1142)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1143)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1144)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (1145)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1146)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1147)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1148)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1149)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1150)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1151)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1152)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1153)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1154)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1155)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1156)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1157)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (1158)

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1159)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1160)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1161)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1162)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1163)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1164)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1165)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1166)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1167)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1168)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1169)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1170)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1171)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1172)$$

$$R_PFK(KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(1173)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1174)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(1175)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1176)$$

$$CF16BP, KF16BP, AT, AM, F16, F26) = L \cdot \left(\frac{1 + CiATP \cdot \frac{AT}{KiATP}}{1 + \frac{AT}{KiATP}}\right)^{2}$$

$$\cdot \left(\frac{1 + CAMP \cdot \frac{AM}{KAMP}}{1 + \frac{AM}{KAMP}}\right)^{2} \cdot \left(\frac{1 + \frac{CF26BP \cdot F26}{KF26BP} + \frac{CF16BP \cdot F16}{KF16BP}}{1 + \frac{F26}{KF26BP} + \frac{F16}{KF16BP}}\right)^{2}$$
(1177)

$$T_{PFK}(CATP, KmATP, AT) = 1 + CATP \cdot \frac{AT}{KmATP}$$
(1178)

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1179)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1180)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1181)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1182)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1183)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1184)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1185)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(1186)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1187)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1188)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1189)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1190)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1191)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1192)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1193)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1194)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1195)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1196)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1197)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1198)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(1199)

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1200)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1201)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1202)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1203)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1204)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1205)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1206)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1207)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1208)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1209)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1210)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1211)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1212)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1213)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1214)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1215)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1216)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1217)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1218)$$

$$CF16BP, KF16BP, AT, AM, F16, F26) = L \cdot \left(\frac{1 + CiATP \cdot \frac{AT}{KiATP}}{1 + \frac{AT}{KiATP}}\right)^{2}$$

$$\cdot \left(\frac{1 + CAMP \cdot \frac{AM}{KAMP}}{1 + \frac{AM}{KAMP}}\right)^{2} \cdot \left(\frac{1 + \frac{CF26BP \cdot F26}{KF26BP} + \frac{CF16BP \cdot F16}{KF16BP}}{1 + \frac{F26}{KF26BP} + \frac{F16}{KF16BP}}\right)^{2}$$
(1219)

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (1220)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1221)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1222)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1223)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1224)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1225)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1226)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1227)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1228)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1229)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1230)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1231)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1232)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1233)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1234)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1235)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1236)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1237)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1238)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1239)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (1240)

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1241)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1242)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1243)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1244)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1245)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1246)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1247)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1248)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1249)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1250)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1251)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1252)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1253)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (1254)

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (1255)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1256)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1257)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1258)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1259)$$

$$CF16BP, KF16BP, AT, AM, F16, F26) = L \cdot \left(\frac{1 + CiATP \cdot \frac{AT}{KiATP}}{1 + \frac{AT}{KiATP}}\right)^{2}$$

$$\cdot \left(\frac{1 + CAMP \cdot \frac{AM}{KAMP}}{1 + \frac{AM}{KAMP}}\right)^{2} \cdot \left(\frac{1 + \frac{CF26BP \cdot F26}{KF26BP} + \frac{CF16BP \cdot F16}{KF16BP}}{1 + \frac{F26}{KF26BP} + \frac{F16}{KF16BP}}\right)^{2}$$
(1260)

$$T.PFK(CATP, KmATP, AT) = 1 + CATP \cdot \frac{AT}{KmATP}$$
 (1261)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1262)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1263)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1264)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1265)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1266)$$

$$R_PFK(KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(1267)

$$R.PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (1268)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1269)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1270)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1271)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1272)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1273)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1274)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1275)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1276)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1277)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1278)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1279)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1280)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1281)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(1282)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1283)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1284)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1285)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1286)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1287)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1288)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1289)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1290)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1291)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1292)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1293)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1294)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (1295)

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1296)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1297)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1298)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1299)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1300)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1301)$$

$$\text{CF16BP}, \text{KF16BP}, \text{AT}, \text{AM}, \text{F16}, \text{F26}) = L \cdot \left(\frac{1 + \text{CiATP} \cdot \frac{\text{AT}}{\text{KiATP}}}{1 + \frac{\text{AT}}{\text{KiATP}}} \right)^{2}$$

$$\cdot \left(\frac{1 + \text{CAMP} \cdot \frac{\text{AM}}{\text{KAMP}}}{1 + \frac{\text{AM}}{\text{KAMP}}} \right)^{2} \cdot \left(\frac{1 + \frac{\text{CF26BP} \cdot \text{F26}}{\text{KF26BP}} + \frac{\text{CF16BP} \cdot \text{F16}}{\text{KF16BP}}}{1 + \frac{\text{F26}}{\text{KF26BP}} + \frac{\text{F16}}{\text{KF16BP}}} \right)^{2}$$

$$(1302)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1303)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1304)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1305)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1306)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1307)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1308)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (1309)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1310)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1311)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1312)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1313)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1314)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1315)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1316)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1317)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1318)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1319)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1320)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1321)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1322)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1323)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1324)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1325)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1326)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1327)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1328)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1329)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1330)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1331)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1332)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1333)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1334)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1335)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1336)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1337)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1338)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1339)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1340)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1341)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1342)$$

$$\text{CF16BP}, \text{KF16BP}, \text{AT}, \text{AM}, \text{F16}, \text{F26}) = L \cdot \left(\frac{1 + \text{CiATP} \cdot \frac{\text{AT}}{\text{KiATP}}}{1 + \frac{\text{AT}}{\text{KiATP}}} \right)^{2}$$

$$\cdot \left(\frac{1 + \text{CAMP} \cdot \frac{\text{AM}}{\text{KAMP}}}{1 + \frac{\text{AM}}{\text{KAMP}}} \right)^{2} \cdot \left(\frac{1 + \frac{\text{CF26BP} \cdot \text{F26}}{\text{KF26BP}} + \frac{\text{CF16BP} \cdot \text{F16}}{\text{KF16BP}}}{1 + \frac{\text{F26}}{\text{KF26BP}} + \frac{\text{F16}}{\text{KF16BP}}} \right)^{2}$$

$$(1343)$$

$$T_PFK(CATP, KmATP, AT) = 1 + CATP \cdot \frac{AT}{KmATP}$$
 (1344)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1345)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1346)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1347)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1348)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1349)$$

$$R.PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (1350)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1351)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1352)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1353)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1354)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1355)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1356)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1357)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1358)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1359)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1360)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1361)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1362)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1363)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1364)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1365)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1366)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1367)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1368)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1369)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1370)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1371)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1372)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1373)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1374)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1375)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1376)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1377)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1378)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1379)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(1380)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1381)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1382)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (1383)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1384)$$

$$CF16BP, KF16BP, AT, AM, F16, F26) = L \cdot \left(\frac{1 + CiATP \cdot \frac{AT}{KiATP}}{1 + \frac{AT}{KiATP}}\right)^{2}$$

$$\cdot \left(\frac{1 + CAMP \cdot \frac{AM}{KAMP}}{1 + \frac{AM}{KAMP}}\right)^{2} \cdot \left(\frac{1 + \frac{CF26BP \cdot F26}{KF26BP} + \frac{CF16BP \cdot F16}{KF16BP}}{1 + \frac{F26}{KF26BP} + \frac{F16}{KF16BP}}\right)^{2}$$
(1385)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1386)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1387)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1388)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1389)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1390)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (1391)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1392)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1393)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1394)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1395)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1396)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1397)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1398)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1399)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1400)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1401)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1402)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1403)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1404)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1405)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1406)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1407)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1408)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1409)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1410)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1411)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1412)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1413)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1414)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1415)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1416)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1417)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1418)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1419)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1420)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1421)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1422)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1423)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1424)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1425)$$

$$CF16BP, KF16BP, AT, AM, F16, F26) = L \cdot \left(\frac{1 + CiATP \cdot \frac{AT}{KiATP}}{1 + \frac{AT}{KiATP}}\right)^{2}$$

$$\cdot \left(\frac{1 + CAMP \cdot \frac{AM}{KAMP}}{1 + \frac{AM}{KAMP}}\right)^{2} \cdot \left(\frac{1 + \frac{CF26BP \cdot F26}{KF26BP} + \frac{CF16BP \cdot F16}{KF16BP}}{1 + \frac{F26}{KF26BP} + \frac{F16}{KF16BP}}\right)^{2}$$
(1426)

$$T.PFK(CATP, KmATP, AT) = 1 + CATP \cdot \frac{AT}{KmATP}$$
 (1427)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1428)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1429)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1430)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1431)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1432)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1433)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1434)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1435)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1436)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1437)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1438)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1439)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1440)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1441)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1442)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1443)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1444)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (1445)

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1446)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1447)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1448)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1449)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1450)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1451)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1452)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1453)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1454)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1455)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1456)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1457)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1458)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (1459)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1460)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1461)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (1462)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1463)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1464)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1465)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1466)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1467)$$

$$CF16BP, KF16BP, AT, AM, F16, F26) = L \cdot \left(\frac{1 + CiATP \cdot \frac{AT}{KiATP}}{1 + \frac{AT}{KiATP}}\right)^{2}$$

$$\cdot \left(\frac{1 + CAMP \cdot \frac{AM}{KAMP}}{1 + \frac{AM}{KAMP}}\right)^{2} \cdot \left(\frac{1 + \frac{CF26BP \cdot F26}{KF26BP} + \frac{CF16BP \cdot F16}{KF16BP}}{1 + \frac{F26}{KF26BP} + \frac{F16}{KF16BP}}\right)^{2}$$
(1468)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1469)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1470)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1471)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1472)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (1473)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1474)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1475)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1476)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1477)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1478)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1479)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1480)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1481)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1482)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1483)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1484)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1485)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (1486)

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1487)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1488)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1489)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1490)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1491)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1492)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1493)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1494)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1495)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1496)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1497)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1498)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1499)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1500)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1501)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1502)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1503)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1504)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1505)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (1506)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1507)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1508)$$

$$CF16BP, KF16BP, AT, AM, F16, F26) = L \cdot \left(\frac{1 + CiATP \cdot \frac{AT}{KiATP}}{1 + \frac{AT}{KiATP}}\right)^{2}$$

$$\cdot \left(\frac{1 + CAMP \cdot \frac{AM}{KAMP}}{1 + \frac{AM}{KAMP}}\right)^{2} \cdot \left(\frac{1 + \frac{CF26BP \cdot F26}{KF26BP} + \frac{CF16BP \cdot F16}{KF16BP}}{1 + \frac{F26}{KF26BP} + \frac{F16}{KF16BP}}\right)^{2}$$
(1509)

$$T_PFK(CATP, KmATP, AT) = 1 + CATP \cdot \frac{AT}{KmATP}$$
 (1510)

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1511)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1512)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1513)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (1514)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1515)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1516)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1517)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1518)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1519)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1520)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1521)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1522)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1523)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1524)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1525)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1526)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1527)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1528)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1529)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1530)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1531)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1532)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1533)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1534)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1535)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1536)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1537)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1538)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1539)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1540)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1541)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1542)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1543)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (1544)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1545)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1546)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (1547)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1548)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1549)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1550)$$

$$CF16BP, KF16BP, AT, AM, F16, F26) = L \cdot \left(\frac{1 + CiATP \cdot \frac{AT}{KiATP}}{1 + \frac{AT}{KiATP}}\right)^{2}$$

$$\cdot \left(\frac{1 + CAMP \cdot \frac{AM}{KAMP}}{1 + \frac{AM}{KAMP}}\right)^{2} \cdot \left(\frac{1 + \frac{CF26BP \cdot F26}{KF26BP} + \frac{CF16BP \cdot F16}{KF16BP}}{1 + \frac{F26}{KF26BP} + \frac{F16}{KF16BP}}\right)^{2}$$
(1551)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1552)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1553)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1554)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1555)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1556)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1557)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1558)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1559)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1560)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1561)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1562)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1563)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1564)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1565)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1566)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1567)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1568)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1569)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1570)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1571)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1572)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1573)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1574)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1575)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1576)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1577)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1578)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1579)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1580)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1581)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1582)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1583)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1584)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1585)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1586)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1587)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1588)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1589)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (1590)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1591)$$

$$\text{CF16BP, KF16BP, AT, AM, F16, F26)} = L \cdot \left(\frac{1 + \text{CiATP} \cdot \frac{\text{AT}}{\text{KiATP}}}{1 + \frac{\text{AT}}{\text{KiATP}}} \right)^{2}$$

$$\cdot \left(\frac{1 + \text{CAMP} \cdot \frac{\text{AM}}{\text{KAMP}}}{1 + \frac{\text{AM}}{\text{KAMP}}} \right)^{2} \cdot \left(\frac{1 + \frac{\text{CF26BP \cdot F26}}{\text{KF26BP}} + \frac{\text{CF16BP \cdot F16}}{\text{KF16BP}}}{1 + \frac{\text{F26}}{\text{KF26BP}} + \frac{\text{F16}}{\text{KF16BP}}} \right)^{2}$$

$$(1592)$$

$$T_PFK(CATP, KmATP, AT) = 1 + CATP \cdot \frac{AT}{KmATP}$$
 (1593)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1594)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1595)$$

$$R.PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (1596)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1597)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1598)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1599)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1600)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1601)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1602)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1603)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1604)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1605)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1606)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1607)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1608)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1609)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1610)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1611)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1612)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1613)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1614)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1615)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1616)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1617)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1618)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1619)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1620)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1621)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1622)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1623)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1624)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1625)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (1626)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1627)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1628)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1629)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1630)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1631)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1632)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1633)$$

$$CF16BP, KF16BP, AT, AM, F16, F26) = L \cdot \left(\frac{1 + CiATP \cdot \frac{AT}{KiATP}}{1 + \frac{AT}{KiATP}}\right)^{2}$$

$$\cdot \left(\frac{1 + CAMP \cdot \frac{AM}{KAMP}}{1 + \frac{AM}{KAMP}}\right)^{2} \cdot \left(\frac{1 + \frac{CF26BP \cdot F26}{KF26BP} + \frac{CF16BP \cdot F16}{KF16BP}}{1 + \frac{F26}{KF26BP} + \frac{F16}{KF16BP}}\right)^{2}$$
(1634)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1635)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1636)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (1637)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1638)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1639)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1640)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1641)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1642)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1643)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1644)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1645)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1646)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1647)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1648)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1649)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (1650)

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1651)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1652)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1653)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1654)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1655)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1656)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1657)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1658)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1659)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1660)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1661)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1662)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1663)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1664)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1665)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1666)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1667)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1668)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1669)$$

$$R.PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (1670)

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1671)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1672)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1673)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1674)$$

$$\text{CF16BP, KF16BP, AT, AM, F16, F26)} = L \cdot \left(\frac{1 + \text{CiATP} \cdot \frac{\text{AT}}{\text{KiATP}}}{1 + \frac{\text{AT}}{\text{KiATP}}} \right)^{2}$$

$$\cdot \left(\frac{1 + \text{CAMP} \cdot \frac{\text{AM}}{\text{KAMP}}}{1 + \frac{\text{AM}}{\text{KAMP}}} \right)^{2} \cdot \left(\frac{1 + \frac{\text{CF26BP \cdot F26}}{\text{KF26BP}} + \frac{\text{CF16BP \cdot F16}}{\text{KF16BP}}}{1 + \frac{\text{F26}}{\text{KF26BP}} + \frac{\text{F16}}{\text{KF16BP}}} \right)^{2}$$

$$(1675)$$

$$T_PFK\left(CATP, KmATP, AT\right) = 1 + CATP \cdot \frac{AT}{KmATP}$$
 (1676)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1677)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1678)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1679)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1680)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1681)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1682)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1683)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1684)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1685)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1686)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1687)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1688)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1689)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1690)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1691)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1692)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1693)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1694)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1695)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1696)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1697)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1698)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1699)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1700)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1701)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1702)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1703)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1704)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1705)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1706)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1707)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(1708)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1709)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1710)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (1711)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1712)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(1713)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1714)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1715)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1716)$$

$$CF16BP, KF16BP, AT, AM, F16, F26) = L \cdot \left(\frac{1 + CiATP \cdot \frac{AT}{KiATP}}{1 + \frac{AT}{KiATP}}\right)^{2}$$

$$\cdot \left(\frac{1 + CAMP \cdot \frac{AM}{KAMP}}{1 + \frac{AM}{KAMP}}\right)^{2} \cdot \left(\frac{1 + \frac{CF26BP \cdot F26}{KF26BP} + \frac{CF16BP \cdot F16}{KF16BP}}{1 + \frac{F26}{KF26BP} + \frac{F16}{KF16BP}}\right)^{2}$$
(1717)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1718)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(1719)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1720)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1721)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1722)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1723)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1724)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1725)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1726)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1727)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1728)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1729)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1730)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1731)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(1732)

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1733)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1734)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1735)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1736)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1737)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1738)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1739)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1740)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1741)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1742)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1743)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1744)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1745)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(1746)

$$R_PFK(KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(1747)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1748)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(1749)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1750)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1751)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(1752)

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1753)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(1754)

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1755)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1756)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1757)$$

$$CF16BP, KF16BP, AT, AM, F16, F26) = L \cdot \left(\frac{1 + CiATP \cdot \frac{AT}{KiATP}}{1 + \frac{AT}{KiATP}}\right)^{2}$$

$$\cdot \left(\frac{1 + CAMP \cdot \frac{AM}{KAMP}}{1 + \frac{AM}{KAMP}}\right)^{2} \cdot \left(\frac{1 + \frac{CF26BP \cdot F26}{KF26BP} + \frac{CF16BP \cdot F16}{KF16BP}}{1 + \frac{F26}{KF26BP} + \frac{F16}{KF16BP}}\right)^{2}$$
(1758)

$$T_PFK(CATP, KmATP, AT) = 1 + CATP \cdot \frac{AT}{KmATP}$$
 (1759)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1760)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1761)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1762)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1763)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1764)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1765)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1766)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1767)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1768)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1769)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1770)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1771)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1772)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(1773)

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1774)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1775)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1776)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1777)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1778)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1779)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1780)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1781)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1782)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1783)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1784)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1785)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1786)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1787)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1788)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1789)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(1790)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1791)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1792)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1793)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1794)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1795)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1796)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1797)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1798)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1799)$$

$$\text{CF16BP}, \text{KF16BP}, \text{AT}, \text{AM}, \text{F16}, \text{F26}) = L \cdot \left(\frac{1 + \text{CiATP} \cdot \frac{\text{AT}}{\text{KiATP}}}{1 + \frac{\text{AT}}{\text{KiATP}}} \right)^{2}$$

$$\cdot \left(\frac{1 + \text{CAMP} \cdot \frac{\text{AM}}{\text{KAMP}}}{1 + \frac{\text{AM}}{\text{KAMP}}} \right)^{2} \cdot \left(\frac{1 + \frac{\text{CF26BP} \cdot \text{F26}}{\text{KF26BP}} + \frac{\text{CF16BP} \cdot \text{F16}}{\text{KF16BP}}}{1 + \frac{\text{F26}}{\text{KF26BP}} + \frac{\text{F16}}{\text{KF16BP}}} \right)^{2}$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(1801)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1802)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1803)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1804)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1805)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1806)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1807)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1808)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1809)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1810)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1811)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1812)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1813)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1814)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1815)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1816)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1817)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1818)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1819)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1820)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1821)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1822)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1823)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1824)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1825)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1826)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1827)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1828)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1829)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1830)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1831)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1832)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1833)$$

$$R.PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(1834)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1835)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(1836)

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1837)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1838)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1839)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1840)$$

$$CF16BP, KF16BP, AT, AM, F16, F26) = L \cdot \left(\frac{1 + CiATP \cdot \frac{AT}{KiATP}}{1 + \frac{AT}{KiATP}}\right)^{2}$$

$$\cdot \left(\frac{1 + CAMP \cdot \frac{AM}{KAMP}}{1 + \frac{AM}{KAMP}}\right)^{2} \cdot \left(\frac{1 + \frac{CF26BP \cdot F26}{KF26BP} + \frac{CF16BP \cdot F16}{KF16BP}}{1 + \frac{F26}{KF26BP} + \frac{F16}{KF16BP}}\right)^{2}$$
(1841)

$$T_{PFK}(CATP, KmATP, AT) = 1 + CATP \cdot \frac{AT}{KmATP}$$
(1842)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1843)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1844)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1845)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1846)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1847)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1848)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1849)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1850)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1851)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1852)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1853)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1854)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1855)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1856)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1857)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1858)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1859)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1860)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1861)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1862)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1863)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1864)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1865)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1866)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1867)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1868)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1869)$$

$$R_PFK(KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(1870)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1871)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (1872)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1873)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1874)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1875)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1876)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(1877)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1878)$$

$$R_PFK(KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (1879)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1880)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1881)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1882)$$

$$CF16BP, KF16BP, AT, AM, F16, F26) = L \cdot \left(\frac{1 + CiATP \cdot \frac{AT}{KiATP}}{1 + \frac{AT}{KiATP}}\right)^{2}$$

$$\cdot \left(\frac{1 + CAMP \cdot \frac{AM}{KAMP}}{1 + \frac{AM}{KAMP}}\right)^{2} \cdot \left(\frac{1 + \frac{CF26BP \cdot F26}{KF26BP} + \frac{CF16BP \cdot F16}{KF16BP}}{1 + \frac{F26}{KF26BP} + \frac{F16}{KF16BP}}\right)^{2}$$
(1883)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1884)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1885)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1886)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1887)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1888)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1889)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1890)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1891)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1892)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1893)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1894)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1895)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1896)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1897)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1898)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1899)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1900)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1901)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1902)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1903)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1904)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1905)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1906)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1907)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1908)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1909)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1910)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1911)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1912)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(1913)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1914)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1915)$$

$$R.PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(1916)

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1917)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(1918)

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(1919)

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1920)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1921)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1922)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1923)$$

$$\text{CF16BP}, \text{KF16BP}, \text{AT}, \text{AM}, \text{F16}, \text{F26}) = L \cdot \left(\frac{1 + \text{CiATP} \cdot \frac{\text{AT}}{\text{KiATP}}}{1 + \frac{\text{AT}}{\text{KiATP}}} \right)^{2}$$

$$\cdot \left(\frac{1 + \text{CAMP} \cdot \frac{\text{AM}}{\text{KAMP}}}{1 + \frac{\text{AM}}{\text{KAMP}}} \right)^{2} \cdot \left(\frac{1 + \frac{\text{CF26BP} \cdot \text{F26}}{\text{KF26BP}} + \frac{\text{CF16BP} \cdot \text{F16}}{\text{KF16BP}}}{1 + \frac{\text{F26}}{\text{KF26BP}} + \frac{\text{F16}}{\text{KF16BP}}} \right)^{2}$$

$$(1924)$$

$$T.PFK (CATP, KmATP, AT) = 1 + CATP \cdot \frac{AT}{KmATP}$$
 (1925)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1926)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1927)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1928)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1929)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1930)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1931)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1932)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1933)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1934)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1935)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1936)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1937)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1938)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1939)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1940)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1941)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1942)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1943)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1944)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1945)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1946)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1947)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1948)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1949)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1950)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (1951)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1952)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1953)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(1954)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1955)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1956)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1957)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1958)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1959)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1960)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1961)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1962)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1963)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1964)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1965)$$

$$CF16BP, KF16BP, AT, AM, F16, F26) = L \cdot \left(\frac{1 + CiATP \cdot \frac{AT}{KiATP}}{1 + \frac{AT}{KiATP}}\right)^{2}$$

$$\cdot \left(\frac{1 + CAMP \cdot \frac{AM}{KAMP}}{1 + \frac{AM}{KAMP}}\right)^{2} \cdot \left(\frac{1 + \frac{CF26BP \cdot F26}{KF26BP} + \frac{CF16BP \cdot F16}{KF16BP}}{1 + \frac{F26}{KF26BP} + \frac{F16}{KF16BP}}\right)^{2}$$
(1966)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1967)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1968)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1969)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1970)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1971)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1972)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1973)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1974)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1975)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1976)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1977)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(1978)

$$R_PFK(KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(1979)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1980)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1981)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1982)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1983)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1984)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1985)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1986)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1987)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1988)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1989)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1990)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1991)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(1992)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1993)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1994)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1995)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1996)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1997)$$

$$R_PFK(KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(1998)

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (1999)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(2000)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2001)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2002)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2003)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2004)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2005)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2006)$$

$$CF16BP, KF16BP, AT, AM, F16, F26) = L \cdot \left(\frac{1 + CiATP \cdot \frac{AT}{KiATP}}{1 + \frac{AT}{KiATP}}\right)^{2}$$

$$\cdot \left(\frac{1 + CAMP \cdot \frac{AM}{KAMP}}{1 + \frac{AM}{KAMP}}\right)^{2} \cdot \left(\frac{1 + \frac{CF26BP \cdot F26}{KF26BP} + \frac{CF16BP \cdot F16}{KF16BP}}{1 + \frac{F26}{KF26BP} + \frac{F16}{KF16BP}}\right)^{2}$$
(2007)

$$T_PFK(CATP, KmATP, AT) = 1 + CATP \cdot \frac{AT}{KmATP}$$
 (2008)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2009)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2010)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2011)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2012)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2013)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2014)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2015)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2016)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2017)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2018)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2019)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2020)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2021)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2022)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2023)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2024)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2025)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2026)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2027)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2028)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2029)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2030)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2031)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2032)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(2033)

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2034)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2035)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2036)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2037)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2038)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2039)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2040)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2041)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2042)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2043)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2044)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2045)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2046)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2047)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2048)$$

$$\text{CF16BP, KF16BP, AT, AM, F16, F26)} = L \cdot \left(\frac{1 + \text{CiATP} \cdot \frac{\text{AT}}{\text{KiATP}}}{1 + \frac{\text{AT}}{\text{KiATP}}} \right)^{2}$$

$$\cdot \left(\frac{1 + \text{CAMP} \cdot \frac{\text{AM}}{\text{KAMP}}}{1 + \frac{\text{AM}}{\text{KAMP}}} \right)^{2} \cdot \left(\frac{1 + \frac{\text{CF26BP} \cdot \text{F26}}{\text{KF26BP}} + \frac{\text{CF16BP} \cdot \text{F16}}{\text{KF16BP}}}{1 + \frac{\text{F26}}{\text{KF26BP}} + \frac{\text{F16}}{\text{KF16BP}}} \right)^{2}$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2050)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2051)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2052)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2053)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2054)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2055)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2056)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2057)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2058)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2059)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2060)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2061)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2062)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2063)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2064)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2065)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2066)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2067)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2068)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2069)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2070)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2071)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2072)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2073)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2074)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2075)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2076)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2077)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2078)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2079)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2080)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2081)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2082)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2083)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2084)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2085)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2086)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2087)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2088)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2089)$$

$$CF16BP, KF16BP, AT, AM, F16, F26) = L \cdot \left(\frac{1 + CiATP \cdot \frac{AT}{KiATP}}{1 + \frac{AT}{KiATP}}\right)^{2}$$

$$\cdot \left(\frac{1 + CAMP \cdot \frac{AM}{KAMP}}{1 + \frac{AM}{KAMP}}\right)^{2} \cdot \left(\frac{1 + \frac{CF26BP \cdot F26}{KF26BP} + \frac{CF16BP \cdot F16}{KF16BP}}{1 + \frac{F26}{KF26BP} + \frac{F16}{KF16BP}}\right)^{2}$$
(2090)

$$T_{PFK}(CATP, KmATP, AT) = 1 + CATP \cdot \frac{AT}{KmATP}$$
 (2091)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2092)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2093)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2094)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2095)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2096)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2097)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2098)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2099)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(2100)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2101)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2102)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2103)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2104)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2105)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2106)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2107)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2108)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2109)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2110)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2111)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2112)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2113)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2114)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2115)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2116)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2117)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2118)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2119)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2120)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2121)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2122)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2123)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2124)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2125)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2126)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(2127)

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(2128)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2129)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2130)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(2131)

$$\text{CF16BP}, \text{KF16BP}, \text{AT}, \text{AM}, \text{F16}, \text{F26}) = L \cdot \left(\frac{1 + \text{CiATP} \cdot \frac{\text{AT}}{\text{KiATP}}}{1 + \frac{\text{AT}}{\text{KiATP}}} \right)^{2}$$

$$\cdot \left(\frac{1 + \text{CAMP} \cdot \frac{\text{AM}}{\text{KAMP}}}{1 + \frac{\text{AM}}{\text{KAMP}}} \right)^{2} \cdot \left(\frac{1 + \frac{\text{CF26BP} \cdot \text{F26}}{\text{KF26BP}} + \frac{\text{CF16BP} \cdot \text{F16}}{\text{KF16BP}}}{1 + \frac{\text{F26}}{\text{KF26BP}} + \frac{\text{F16}}{\text{KF16BP}}} \right)^{2}$$

$$(2132)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(2133)

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(2134)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2135)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2136)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(2137)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2138)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2139)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2140)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2141)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2142)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2143)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2144)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2145)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2146)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2147)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2148)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2149)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2150)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2151)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2152)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2153)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(2154)

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(2155)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2156)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2157)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2158)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2159)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2160)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2161)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2162)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2163)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2164)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2165)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2166)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2167)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(2168)

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2169)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2170)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(2171)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2172)$$

$$CF16BP, KF16BP, AT, AM, F16, F26) = L \cdot \left(\frac{1 + CiATP \cdot \frac{AT}{KiATP}}{1 + \frac{AT}{KiATP}}\right)^{2}$$

$$\cdot \left(\frac{1 + CAMP \cdot \frac{AM}{KAMP}}{1 + \frac{AM}{KAMP}}\right)^{2} \cdot \left(\frac{1 + \frac{CF26BP \cdot F26}{KF26BP} + \frac{CF16BP \cdot F16}{KF16BP}}{1 + \frac{F26}{KF26BP} + \frac{F16}{KF16BP}}\right)^{2}$$
(2173)

$$T_{PFK}(CATP, KmATP, AT) = 1 + CATP \cdot \frac{AT}{KmATP}$$
 (2174)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2175)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2176)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2177)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2178)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2179)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2180)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2181)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2182)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2183)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2184)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2185)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2186)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2187)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2188)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2189)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2190)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2191)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2192)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2193)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2194)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(2195)

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2196)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2197)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2198)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2199)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2200)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2201)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2202)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2203)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2204)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2205)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2206)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2207)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2208)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2209)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2210)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2211)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2212)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2213)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2214)$$

$$CF16BP, KF16BP, AT, AM, F16, F26) = L \cdot \left(\frac{1 + CiATP \cdot \frac{AT}{KiATP}}{1 + \frac{AT}{KiATP}}\right)^{2}$$

$$\cdot \left(\frac{1 + CAMP \cdot \frac{AM}{KAMP}}{1 + \frac{AM}{KAMP}}\right)^{2} \cdot \left(\frac{1 + \frac{CF26BP \cdot F26}{KF26BP} + \frac{CF16BP \cdot F16}{KF16BP}}{1 + \frac{F26}{KF26BP} + \frac{F16}{KF16BP}}\right)^{2}$$
(2215)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2216)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2217)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2218)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2219)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2220)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2221)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (2222)

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (2223)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2224)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2225)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2226)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2227)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2228)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2229)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2230)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2231)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2232)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2233)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2234)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2235)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(2236)

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(2237)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2238)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2239)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2240)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2241)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2242)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2243)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2244)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2245)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2246)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(2247)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2248)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2249)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2250)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2251)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2252)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(2253)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2254)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2255)$$

$$CF16BP, KF16BP, AT, AM, F16, F26) = L \cdot \left(\frac{1 + CiATP \cdot \frac{AT}{KiATP}}{1 + \frac{AT}{KiATP}}\right)^{2}$$

$$\cdot \left(\frac{1 + CAMP \cdot \frac{AM}{KAMP}}{1 + \frac{AM}{KAMP}}\right)^{2} \cdot \left(\frac{1 + \frac{CF26BP \cdot F26}{KF26BP} + \frac{CF16BP \cdot F16}{KF16BP}}{1 + \frac{F26}{KF26BP} + \frac{F16}{KF16BP}}\right)^{2}$$
(2256)

$$T.PFK(CATP, KmATP, AT) = 1 + CATP \cdot \frac{AT}{KmATP}$$
 (2257)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2258)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2259)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2260)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2261)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2262)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2263)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2264)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2265)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2266)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2267)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2268)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2269)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2270)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2271)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2272)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2273)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2274)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2275)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2276)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2277)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2278)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2279)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2280)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2281)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2282)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2283)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2284)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2285)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2286)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2287)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2288)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2289)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2290)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(2291)

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(2292)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2293)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2294)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2295)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2296)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2297)$$

$$\text{CF16BP}, \text{KF16BP}, \text{AT}, \text{AM}, \text{F16}, \text{F26}) = L \cdot \left(\frac{1 + \text{CiATP} \cdot \frac{\text{AT}}{\text{KiATP}}}{1 + \frac{\text{AT}}{\text{KiATP}}} \right)^{2}$$

$$\cdot \left(\frac{1 + \text{CAMP} \cdot \frac{\text{AM}}{\text{KAMP}}}{1 + \frac{\text{AM}}{\text{KAMP}}} \right)^{2} \cdot \left(\frac{1 + \frac{\text{CF26BP} \cdot \text{F26}}{\text{KF26BP}} + \frac{\text{CF16BP} \cdot \text{F16}}{\text{KF16BP}}}{1 + \frac{\text{F26}}{\text{KF26BP}} + \frac{\text{F16}}{\text{KF16BP}}} \right)^{2}$$

$$(2298)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2299)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2300)$$

$$R_PFK(KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(2301)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2302)$$

$$R_PFK(KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(2303)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2304)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2305)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2306)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2307)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2308)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2309)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2310)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2311)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2312)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2313)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2314)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2315)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2316)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2317)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2318)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (2319)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2320)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2321)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2322)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2323)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2324)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2325)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2326)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2327)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2328)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2329)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2330)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2331)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (2332)

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2333)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2334)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(2335)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2336)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2337)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (2338)

$$\text{CF16BP}, \text{KF16BP}, \text{AT}, \text{AM}, \text{F16}, \text{F26}) = L \cdot \left(\frac{1 + \text{CiATP} \cdot \frac{\text{AT}}{\text{KiATP}}}{1 + \frac{\text{AT}}{\text{KiATP}}} \right)^{2}$$

$$\cdot \left(\frac{1 + \text{CAMP} \cdot \frac{\text{AM}}{\text{KAMP}}}{1 + \frac{\text{AM}}{\text{KAMP}}} \right)^{2} \cdot \left(\frac{1 + \frac{\text{CF26BP} \cdot \text{F26}}{\text{KF26BP}} + \frac{\text{CF16BP} \cdot \text{F16}}{\text{KF16BP}}}{1 + \frac{\text{F26}}{\text{KF26BP}} + \frac{\text{F16}}{\text{KF16BP}}} \right)^{2}$$

$$(2339)$$

$$T_{PFK}(CATP, KmATP, AT) = 1 + CATP \cdot \frac{AT}{KmATP}$$
 (2340)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2341)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2342)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2343)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2344)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2345)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2346)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2347)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2348)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2349)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2350)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2351)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2352)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2353)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2354)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2355)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2356)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2357)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2358)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (2359)

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2360)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2361)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2362)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2363)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2364)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2365)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2366)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2367)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2368)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2369)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2370)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2371)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2372)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(2373)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2374)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2375)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2376)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2377)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2378)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2379)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2380)$$

$$CF16BP, KF16BP, AT, AM, F16, F26) = L \cdot \left(\frac{1 + CiATP \cdot \frac{AT}{KiATP}}{1 + \frac{AT}{KiATP}}\right)^{2}$$

$$\cdot \left(\frac{1 + CAMP \cdot \frac{AM}{KAMP}}{1 + \frac{AM}{KAMP}}\right)^{2} \cdot \left(\frac{1 + \frac{CF26BP \cdot F26}{KF26BP} + \frac{CF16BP \cdot F16}{KF16BP}}{1 + \frac{F26}{KF26BP} + \frac{F16}{KF16BP}}\right)^{2}$$
(2381)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2382)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2383)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2384)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2385)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2386)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2387)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2388)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2389)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2390)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2391)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2392)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2393)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2394)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2395)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2396)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2397)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2398)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2399)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (2400)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2401)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2402)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2403)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2404)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2405)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2406)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2407)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2408)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2409)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2410)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2411)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2412)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2413)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2414)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2415)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2416)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2417)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2418)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2419)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(2420)

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2421)$$

$$CF16BP, KF16BP, AT, AM, F16, F26) = L \cdot \left(\frac{1 + CiATP \cdot \frac{AT}{KiATP}}{1 + \frac{AT}{KiATP}}\right)^{2}$$

$$\cdot \left(\frac{1 + CAMP \cdot \frac{AM}{KAMP}}{1 + \frac{AM}{KAMP}}\right)^{2} \cdot \left(\frac{1 + \frac{CF26BP \cdot F26}{KF26BP} + \frac{CF16BP \cdot F16}{KF16BP}}{1 + \frac{F26}{KF26BP} + \frac{F16}{KF16BP}}\right)^{2}$$
(2422)

$$T_{PFK}(CATP, KmATP, AT) = 1 + CATP \cdot \frac{AT}{KmATP}$$
 (2423)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2424)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2425)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2426)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2427)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2428)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2429)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2430)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2431)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2432)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2433)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2434)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2435)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2436)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2437)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2438)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2439)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2440)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2441)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2442)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2443)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2444)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2445)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2446)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2447)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2448)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2449)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2450)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2451)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (2452)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2453)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2454)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (2455)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2456)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2457)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2458)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2459)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2460)$$

$$R_PFK(KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(2461)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2462)$$

$$R_PFK(KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(2463)

$$CF16BP, KF16BP, AT, AM, F16, F26) = L \cdot \left(\frac{1 + CiATP \cdot \frac{AT}{KiATP}}{1 + \frac{AT}{KiATP}}\right)^{2}$$

$$\cdot \left(\frac{1 + CAMP \cdot \frac{AM}{KAMP}}{1 + \frac{AM}{KAMP}}\right)^{2} \cdot \left(\frac{1 + \frac{CF26BP \cdot F26}{KF26BP} + \frac{CF16BP \cdot F16}{KF16BP}}{1 + \frac{F26}{KF26BP} + \frac{F16}{KF16BP}}\right)^{2}$$
(2464)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2465)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2466)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2467)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2468)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(2469)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2470)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2471)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2472)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2473)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2474)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2475)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2476)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2477)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2478)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2479)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2480)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2481)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2482)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2483)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2484)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2485)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2486)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2487)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2488)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2489)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2490)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2491)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2492)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2493)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2494)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2495)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2496)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2497)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2498)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (2499)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2500)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2501)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (2502)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2503)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2504)$$

$$CF16BP, KF16BP, AT, AM, F16, F26) = L \cdot \left(\frac{1 + CiATP \cdot \frac{AT}{KiATP}}{1 + \frac{AT}{KiATP}}\right)^{2}$$

$$\cdot \left(\frac{1 + CAMP \cdot \frac{AM}{KAMP}}{1 + \frac{AM}{KAMP}}\right)^{2} \cdot \left(\frac{1 + \frac{CF26BP \cdot F26}{KF26BP} + \frac{CF16BP \cdot F16}{KF16BP}}{1 + \frac{F26}{KF26BP} + \frac{F16BP}{KF16BP}}\right)^{2}$$
(2505)

$$T.PFK (CATP, KmATP, AT) = 1 + CATP \cdot \frac{AT}{KmATP}$$
 (2506)

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2507)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2508)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2509)$$

$$R.PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(2510)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2511)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2512)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2513)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2514)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2515)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2516)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2517)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2518)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2519)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2520)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2521)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2522)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (2523)

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2524)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2525)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2526)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2527)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2528)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2529)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2530)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2531)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2532)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2533)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2534)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2535)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2536)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(2537)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2538)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2539)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (2540)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2541)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2542)$$

$$R_PFK(KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(2543)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2544)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2545)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2546)$$

$$CF16BP, KF16BP, AT, AM, F16, F26) = L \cdot \left(\frac{1 + CiATP \cdot \frac{AT}{KiATP}}{1 + \frac{AT}{KiATP}}\right)^{2}$$

$$\cdot \left(\frac{1 + CAMP \cdot \frac{AM}{KAMP}}{1 + \frac{AM}{KAMP}}\right)^{2} \cdot \left(\frac{1 + \frac{CF26BP \cdot F26}{KF26BP} + \frac{CF16BP \cdot F16}{KF16BP}}{1 + \frac{F26}{KF26BP} + \frac{F16}{KF16BP}}\right)^{2}$$
(2547)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2548)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2549)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2550)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (2551)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2552)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2553)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2554)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2555)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2556)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2557)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2558)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2559)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2560)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2561)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2562)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2563)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(2564)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2565)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2566)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2567)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2568)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2569)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2570)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2571)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2572)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2573)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2574)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2575)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2576)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2577)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2578)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2579)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2580)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (2581)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2582)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2583)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2584)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2585)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (2586)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2587)$$

$$CF16BP, KF16BP, AT, AM, F16, F26) = L \cdot \left(\frac{1 + CiATP \cdot \frac{AT}{KiATP}}{1 + \frac{AT}{KiATP}}\right)^{2}$$

$$\cdot \left(\frac{1 + CAMP \cdot \frac{AM}{KAMP}}{1 + \frac{AM}{KAMP}}\right)^{2} \cdot \left(\frac{1 + \frac{CF26BP \cdot F26}{KF26BP} + \frac{CF16BP \cdot F16}{KF16BP}}{1 + \frac{F26}{KF26BP} + \frac{F16}{KF16BP}}\right)^{2}$$
(2588)

$$T_PFK\left(CATP,KmATP,AT\right) = 1 + CATP \cdot \frac{AT}{KmATP} \tag{2589}$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2590)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2591)$$

$$R.PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(2592)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2593)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2594)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2595)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2596)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2597)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2598)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2599)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2600)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2601)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2602)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2603)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2604)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (2605)

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2606)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2607)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2608)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2609)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2610)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2611)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2612)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2613)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2614)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2615)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2616)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2617)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2618)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2619)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2620)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2621)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2622)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2623)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2624)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (2625)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2626)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (2627)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2628)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2629)$$

$$CF16BP, KF16BP, AT, AM, F16, F26) = L \cdot \left(\frac{1 + CiATP \cdot \frac{AT}{KiATP}}{1 + \frac{AT}{KiATP}}\right)^{2}$$

$$\cdot \left(\frac{1 + CAMP \cdot \frac{AM}{KAMP}}{1 + \frac{AM}{KAMP}}\right)^{2} \cdot \left(\frac{1 + \frac{CF26BP \cdot F26}{KF26BP} + \frac{CF16BP \cdot F16}{KF16BP}}{1 + \frac{F26}{KF26BP} + \frac{F16}{KF16BP}}\right)^{2}$$
(2630)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2631)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2632)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (2633)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2634)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2635)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2636)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2637)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2638)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2639)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2640)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2641)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2642)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2643)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2644)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2645)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2646)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2647)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2648)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2649)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2650)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2651)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2652)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2653)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2654)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2655)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2656)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2657)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2658)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2659)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
 (2660)

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2661)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2662)$$

$$R_PFK (KmF6P, KmATP, g, AT, F6) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP}$$
(2663)

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2664)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2665)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2666)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2667)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2668)$$

$$R_PFK\left(KmF6P,KmATP,g,AT,F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2669)$$

$$R_PFK\left(KmF6P, KmATP, g, AT, F6\right) = 1 + \frac{F6}{KmF6P} + \frac{AT}{KmATP} + g \cdot \frac{F6}{KmF6P} \cdot \frac{AT}{KmATP} \quad (2670)$$

$$\text{CF16BP}, \text{KF16BP}, \text{AT}, \text{AM}, \text{F16}, \text{F26}) = L \cdot \left(\frac{1 + \text{CiATP} \cdot \frac{\text{AT}}{\text{KiATP}}}{1 + \frac{\text{AT}}{\text{KiATP}}} \right)^{2}$$

$$\cdot \left(\frac{1 + \text{CAMP} \cdot \frac{\text{AM}}{\text{KAMP}}}{1 + \frac{\text{AM}}{\text{KAMP}}} \right)^{2} \cdot \left(\frac{1 + \frac{\text{CF26BP} \cdot \text{F26}}{\text{KF26BP}} + \frac{\text{CF16BP} \cdot \text{F16}}{\text{KF16BP}}}{1 + \frac{\text{F26}}{\text{KF26BP}} + \frac{\text{F16}}{\text{KF16BP}}} \right)^{2}$$

$$(2671)$$

$$T_PFK\left(CATP,KmATP,AT\right) = 1 + CATP \cdot \frac{AT}{KmATP} \tag{2672}$$

Table 24: Properties of each parameter.

Id	Name	SBO	Value	Unit			Constant
VmPFK			182.903	$\begin{array}{c} \text{mmol} \\ (60 \text{ s})^{-1} \end{array}$	1-1	•	Ø

8.6 Reaction vALD

This is a reversible reaction of one reactant forming one product.

Name Aldolase

Reaction equation

$$F16P \rightleftharpoons 2TRIO$$
 (2673)

Reactant

Table 25: Properties of each reactant.

Id	Name	SBO
F16P	Fructose-1,6 bisphosphate	

Product

Table 26: Properties of each product.

Id	Name	SBO
TRIO	Triose-phosphate	

Kinetic Law

Derived unit contains undeclared units

$$= \frac{\frac{\text{vol(cytosol)} \cdot \text{VmALD}}{\text{KmALDF16P}} \cdot \left([\text{F16P}] - \frac{\frac{\text{KeqTPI}}{1 + \text{KeqTPI}} \cdot [\text{TRIO}] \cdot \frac{1}{1 + \text{KeqTPI}} \cdot [\text{TRIO}]}{\text{KeqALD}} \right)}{1 + \frac{[\text{F16P}]}{\text{KmALDF16P}} + \frac{\frac{\text{KeqTPI}}{1 + \text{KeqTPI}} \cdot [\text{TRIO}]}{\text{KmALDGAP}} + \frac{1}{1 + \text{KeqTPI}} \cdot [\text{TRIO}]}{\text{KmALDDHAP}} + \frac{\frac{\text{KeqTPI}}{1 + \text{KeqTPI}} \cdot [\text{TRIO}] \cdot \frac{1}{1 + \text{KeqTPI}} \cdot [\text{TRIO}]}{\text{KmALDGAP} \cdot \text{KmALDDHAP}} + \frac{[\text{F16P}] \cdot \frac{\text{KeqTPI}}{1 + \text{KeqTPI}} \cdot [\text{TRIO}]}{\text{KmALDGAP} \cdot \text{KmALDDHAP}} + \frac{[\text{F16P}] \cdot \frac{\text{KeqTPI}}{1 + \text{KeqTPI}} \cdot [\text{TRIO}]}{\text{KmALDGAP} \cdot \text{KmALDDHAP}} + \frac{[\text{F16P}] \cdot \frac{\text{KeqTPI}}{1 + \text{KeqTPI}} \cdot [\text{TRIO}]}{\text{KmALDGAP} \cdot \text{KmALDDHAP}} + \frac{[\text{F16P}] \cdot \frac{\text{KeqTPI}}{1 + \text{KeqTPI}} \cdot [\text{TRIO}]}{\text{KmALDGAP} \cdot \text{KmALDDHAP}} + \frac{[\text{F16P}] \cdot \frac{\text{KeqTPI}}{1 + \text{KeqTPI}} \cdot [\text{TRIO}]}{\text{KmALDGAP} \cdot \text{KmALDDHAP}} + \frac{[\text{F16P}] \cdot \frac{\text{KeqTPI}}{1 + \text{KeqTPI}} \cdot [\text{TRIO}]}{\text{KmALDGAP} \cdot \text{KmALDDHAP}} + \frac{[\text{F16P}] \cdot \frac{\text{KeqTPI}}{1 + \text{KeqTPI}} \cdot [\text{TRIO}]}{\text{KmALDGAP} \cdot \text{KmALDDHAP}} + \frac{[\text{F16P}] \cdot \frac{\text{KeqTPI}}{1 + \text{KeqTPI}} \cdot [\text{TRIO}]}{\text{KmALDGAP} \cdot \text{KmALDDHAP}} + \frac{[\text{F16P}] \cdot \frac{\text{KeqTPI}}{1 + \text{KeqTPI}} \cdot [\text{TRIO}]}{\text{KmALDGAP} \cdot \text{KmALDDHAP}} + \frac{[\text{F16P}] \cdot \frac{\text{KeqTPI}}{1 + \text{KeqTPI}} \cdot [\text{TRIO}]}{\text{KmALDGAP} \cdot \text{KmALDDHAP}} + \frac{[\text{F16P}] \cdot \frac{\text{KeqTPI}}{1 + \text{KeqTPI}} \cdot [\text{TRIO}]}{\text{KmALDGAP} \cdot \text{KmALDDHAP}} + \frac{[\text{F16P}] \cdot \frac{\text{KeqTPI}}{1 + \text{KeqTPI}} \cdot [\text{TRIO}]}{\text{KmALDGAP} \cdot \text{KmALDDHAP}} + \frac{[\text{F16P}] \cdot \frac{\text{KeqTPI}}{1 + \text{KeqTPI}} \cdot [\text{TRIO}]}{\text{KmALDGAP} \cdot \text{KmALDDHAP}} + \frac{[\text{F16P}] \cdot \frac{\text{KeqTPI}}{1 + \text{KeqTPI}} \cdot [\text{TRIO}]}{\text{KmALDGAP}} + \frac{[\text{F16P}] \cdot \frac{\text{KeqTPI}}{1 + \text{KeqTPI}} \cdot$$

Table 27: Properties of each parameter.

Id	Name	SBO	Value	Unit	Constant
VmALD			322.258	$\begin{array}{c} \text{mmol} & \cdot & 1^{-1} \\ (60 \text{ s})^{-1} & \end{array}$. 🛮
KmALDF16P			0.300	$\mathrm{mmol}\cdot\mathrm{l}^{-1}$	\square
${\tt KeqALD}$			0.069	dimensionless	\square
KmALDGAP			2.000	$\operatorname{mmol} \cdot 1^{-1}$	

Id	Name	SBO	Value	Unit	Constant
KmALDDHAP			2.400	$\text{mmol} \cdot l^{-1}$	$ \overline{\mathbf{Z}} $
KmALDGAPi			10.000	$\operatorname{mmol} \cdot 1^{-1}$	

8.7 Reaction vGAPDH

This is a reversible reaction of two reactants forming two products.

Name Glyceraldehyde 3-phosphate dehydrogenase

Reaction equation

$$TRIO + NAD \Longrightarrow BPG + NADH \qquad (2675)$$

Reactants

Table 28: Properties of each reactant.

Id	Name	SBO
TRIO	Triose-phosphate	
NAD	NAD	

Products

Table 29: Properties of each product.

Id	Name	SBO
BPG	1,3-bisphosphoglycerate	
NADH	NADH	

Kinetic Law

Derived unit contains undeclared units

$$v_{7} = \frac{\text{vol}\left(\text{cytosol}\right) \cdot \left(\frac{\text{VmGAPDHf} \cdot \frac{\text{KeqTPI}}{1 + \text{KeqTPI}} \cdot [\text{TRIO}] \cdot [\text{NAD}]}{\text{KmGAPDHGAP} \cdot \text{KmGAPDHNAD}} - \frac{\text{VmGAPDHr} \cdot [\text{BPG}] \cdot [\text{NADH}]}{\text{KmGAPDHBPG} \cdot \text{KmGAPDHNADH}}\right)}{\left(1 + \frac{\text{KeqTPI}}{1 + \text{KeqTPI}} \cdot [\text{TRIO}]} + \frac{[\text{BPG}]}{\text{KmGAPDHBPG}}\right) \cdot \left(1 + \frac{[\text{NAD}]}{\text{KmGAPDHNAD}} + \frac{[\text{NADH}]}{\text{KmGAPDHNADH}}\right)}$$
(2676)

Table 30: Properties of each parameter.

Id	Name	SBO	Value	Unit	Constant
VmGAPDHf			1184.520	$\begin{array}{ccc} mmol & \cdot & 1^{-1} & \cdot \\ (60 \text{ s})^{-1} & & \end{array}$	Ø
KmGAPDHGAP			0.210	$\text{mmol} \cdot 1^{-1}$	
KmGAPDHNAD			0.090	$\text{mmol} \cdot 1^{-1}$	\square
${\tt VmGAPDHr}$			6549.800	$mmol \cdot 1^{-1} \cdot$	
				$(60 \text{ s})^{-1}$	
KmGAPDHBPG			0.010	$\text{mmol} \cdot 1^{-1}$	
KmGAPDHNADH			0.060	$\text{mmol} \cdot 1^{-1}$	

8.8 Reaction vPGK

This is a reversible reaction of one reactant forming two products influenced by two modifiers.

Name Phosphoglycerate kinase

Reaction equation

$$BPG \xrightarrow{ATP, ADP} P3G + P \tag{2677}$$

Reactant

Table 31: Properties of each reactant.

Id	Name	SBO
BPG	1,3-bisphosphoglycerate	

Modifiers

Table 32: Properties of each modifier.

Id	Name	SBO
ATP	ATP concentration	
ADP	ADP concentration	

Products

Table 33: Properties of each product.

Id	Name	SBO
P3G P	3-phosphoglycerate High energy phosphates	

Kinetic Law

Derived unit contains undeclared units

$$v_{8} = \frac{\frac{\text{vol(cytosol)} \cdot \text{VmPGK}}{\text{KmPGKP3G} \cdot \text{KmPGKATP}} \cdot \left(\text{KeqPGK} \cdot [\text{BPG}] \cdot [\text{ADP}] - [\text{P3G}] \cdot [\text{ATP}]\right)}{\left(1 + \frac{[\text{BPG}]}{\text{KmPGKBPG}} + \frac{[\text{P3G}]}{\text{KmPGKP3G}}\right) \cdot \left(1 + \frac{[\text{ATP}]}{\text{KmPGKATP}} + \frac{[\text{ADP}]}{\text{KmPGKADP}}\right)}$$
(2678)

Table 34: Properties of each parameter.

		1	1		
Id	Name	SBO	Value	Unit	Constant
VmPGK			1306.450	$\begin{array}{c} \text{mmol} \\ (60 \text{ s})^{-1} \end{array} \cdot l^{-1}$. 🛮
KmPGKP3G			0.530	$\operatorname{mmol} \cdot 1^{-1}$	
KmPGKATP			0.300	$\text{mmol} \cdot 1^{-1}$	\square
KeqPGK			3200.000	dimensionless	
KmPGKBPG			0.003	$\text{mmol} \cdot 1^{-1}$	
KmPGKADP			0.200	$mmol \cdot l^{-1}$	\square

8.9 Reaction vPGM

This is a reversible reaction of one reactant forming one product.

Name Phosphoglycerate mutase

Reaction equation

$$P3G \rightleftharpoons P2G$$
 (2679)

Reactant

Table 35: Properties of each reactant.

Id	Name	SBO
P3G	3-phosphoglycerate	

Product

Table 36: Properties of each product.

	or reperment or cuen	Pro Gravett.
Id	Name	SBO
P2G	2-phosphoglycerate	

Kinetic Law

Derived unit contains undeclared units

$$v_9 = \frac{\frac{\text{vol(cytosol)} \cdot \text{VmPGM}}{\text{KmPGMP3G}} \cdot \left([P3G] - \frac{[P2G]}{\text{KeqPGM}} \right)}{1 + \frac{[P3G]}{\text{KmPGMP3G}} + \frac{[P2G]}{\text{KmPGMP2G}}}$$
(2680)

Table 37: Properties of each parameter.

		1	1		
Id	Name	SBO	Value	Unit	Constant
VmPGM			2525.81	$\begin{array}{c} \text{mmol} \cdot l^{-1} \\ (60 \text{ s})^{-1} \end{array}$	· 🗹
KmPGMP3G			1.20	$\operatorname{mmol} \cdot 1^{-1}$	
${\tt KeqPGM}$			0.19	dimensionless	
KmPGMP2G			0.08	$\text{mmol} \cdot 1^{-1}$	

8.10 Reaction vENO

This is a reversible reaction of one reactant forming one product.

Name Enolase

Reaction equation

$$P2G \rightleftharpoons PEP$$
 (2681)

Reactant

Table 38: Properties of each reactant.

Id	Name	SBO
P20	2-phosphoglycerate	

Product

Table 39: Properties of each product.

	estroperties or each p	
Id	Name	SBO
PEP	Phosphoenolpyruvate	

Kinetic Law

Derived unit contains undeclared units

$$v_{10} = \frac{\frac{\text{vol(cytosol)} \cdot \text{VmENO}}{\text{KmENOP2G}} \cdot \left([P2G] - \frac{[PEP]}{\text{KeqENO}} \right)}{1 + \frac{[P2G]}{\text{KmENOP2G}} + \frac{[PEP]}{\text{KmENOPEP}}}$$
(2682)

Table 40: Properties of each parameter.

Id	Name	SBO	Value	Unit	Constant
VmENO			365.806	$(60 \text{ s})^{-1}$. 🛛
KmENOP2G			0.040	$\operatorname{mmol} \cdot 1^{-1}$	
KeqENO			6.700	dimensionless	
KmENOPEP			0.500	$\text{mmol} \cdot 1^{-1}$	

8.11 Reaction vPYK

This is a reversible reaction of one reactant forming two products influenced by two modifiers.

Name Pyruvate kinase

Reaction equation

$$PEP \xrightarrow{ATP, ADP} PYR + P \tag{2683}$$

Reactant

Table 41: Properties of each reactant.

Id	Name	SBO
PEP	Phosphoenolpyruvate	

Modifiers

Table 42: Properties of each modifier.

Id	Name	SBO
ATP	ATP concentration	
ADP	ADP concentration	

Products

Table 43: Properties of each product.

Id	Name	SBO
	Pyruvate	
Р	High energy phosphates	

Kinetic Law

Derived unit contains undeclared units

$$v_{11} = \frac{\frac{\text{vol(cytosol)} \cdot \text{VmPYK}}{\text{KmPYKPEP} \cdot \text{KmPYKADP}} \cdot \left([\text{PEP}] \cdot [\text{ADP}] - \frac{[\text{PYR}] \cdot [\text{ATP}]}{\text{KeqPYK}} \right)}{\left(1 + \frac{[\text{PEP}]}{\text{KmPYKPEP}} + \frac{[\text{PYR}]}{\text{KmPYKPYR}} \right) \cdot \left(1 + \frac{[\text{ATP}]}{\text{KmPYKATP}} + \frac{[\text{ADP}]}{\text{KmPYKADP}} \right)}$$
(2684)

Table 44: Properties of each parameter.

Id	Name	SBO	Value	Unit	Constant
VmPYK			1088.71	$\begin{array}{c} \text{mmol} \cdot l^{-1} \\ (60 \text{ s})^{-1} \end{array}$	· Z
KmPYKPEP			0.14	$\operatorname{mmol} \cdot 1^{-1}$	$ \overline{\mathbf{Z}} $
KmPYKADP			0.53	$\text{mmol} \cdot 1^{-1}$	$ \overline{\mathcal{L}} $
KeqPYK			6500.00	dimensionless	$ \overline{\mathcal{L}} $
KmPYKPYR			21.00	$\text{mmol} \cdot 1^{-1}$	
KmPYKATP			1.50	$mmol \cdot l^{-1}$	

8.12 Reaction vPDC

This is an irreversible reaction of one reactant forming two products.

Name Pyruvate decarboxylase

Reaction equation

$$PYR \longrightarrow ACE + CO2 \tag{2685}$$

Reactant

Table 45: Properties of each reactant.

Id	Name	SBO
PYR	Pyruvate	

Products

Table 46: Properties of each product.

Id	Name	SBO
ACE	Acetaldehyde	
C02	CO2	

Kinetic Law

Derived unit contains undeclared units

$$v_{12} = \frac{\text{vol}(\text{cytosol}) \cdot \text{VmPDC} \cdot \frac{[\text{PYR}]^{\text{nPDC}}}{\text{KmPDCPYR}^{\text{nPDC}}}}{1 + \frac{[\text{PYR}]^{\text{nPDC}}}{\text{KmPDCPYR}^{\text{nPDC}}}}$$
(2686)

Table 47: Properties of each parameter.

Id	Name	SBO	Value	Unit	Constant
VmPDC			174.194	$\begin{array}{c} \text{mmol} \\ (60 \text{ s})^{-1} \end{array} \cdot l^{-1}$. 🗸
nPDC			1.900	dimensionless	
KmPDCPYR			4.330	$\operatorname{mmol} \cdot 1^{-1}$	$ \overline{\mathbf{Z}} $

8.13 Reaction vSUC

This is an irreversible reaction of three reactants forming two products.

Name Succinate synthesis

Reaction equation

$$2 ACE + 3 NAD + 4P \longrightarrow 3 NADH + SUCC$$
 (2687)

Reactants

Table 48: Properties of each reactant.

Id	Name	SBO
NAD	Acetaldehyde NAD	
Р	High energy phosphates	

Products

Table 49: Properties of each product.

Id	Name	SBO
NADH	NADH	
SUCC	Succinate	

Kinetic Law

Derived unit contains undeclared units

$$v_{13} = \text{vol}(\text{cytosol}) \cdot \text{KSUCC} \cdot [\text{ACE}]$$
 (2688)

Table 50: Properties of each parameter.

Id	Name	SBO	Value	Unit	Constant
KSUCC			21.4		\overline{Z}

8.14 Reaction vGLT

This is a reversible reaction of one reactant forming one product.

Name Glucose transport

Reaction equation

$$GLCo \rightleftharpoons GLCi$$
 (2689)

Reactant

Table 51: Properties of each reactant.

rable 31. Froperties of each reactaint.				
Id	Name	SBO		
GLCo	Extracellular Glucose	_		

Product

Table 52: Properties of each product.

Id	Name	SBO	
GLCi	Glucose in Cytosol		

Kinetic Law

Derived unit contains undeclared units

$$v_{14} = \frac{\frac{\text{VmGLT}}{\text{KmGLTGLCo}} \cdot \left([\text{GLCo}] - \frac{[\text{GLCi}]}{\text{KeqGLT}} \right)}{1 + \frac{[\text{GLCo}]}{\text{KmGLTGLCo}} + \frac{[\text{GLCi}]}{\text{KmGLTGLCi}} + \frac{0.91 \cdot [\text{GLCo}] \cdot [\text{GLCi}]}{\text{KmGLTGLCo} \cdot \text{KmGLTGLCi}}}$$
(2690)

Table 53: Properties of each parameter.

			*		
Id	Name	SBO	Value	Unit	Constant
VmGLT				$\operatorname{mmol} \cdot (60 \mathrm{s})^{-1}$	
KmGLTGLCo			1.192	$\operatorname{mmol} \cdot 1^{-1}$	
KeqGLT			1.000	$mmol \cdot l^{-1}$	
KmGLTGLCi			1.192	$\operatorname{mmol} \cdot 1^{-1}$	
KeqGLT			1.192 1.000	$\operatorname{mmol} \cdot \mathbf{l}^{-1}$ $\operatorname{mmol} \cdot \mathbf{l}^{-1}$	

8.15 Reaction vADH

This is a reversible reaction of two reactants forming two products.

Name Alcohol dehydrogenase

Reaction equation

$$ACE + NADH \Longrightarrow NAD + ETOH$$
 (2691)

Reactants

Table 54: Properties of each reactant.

Id	Name	SBO
ACE	Acetaldehyde	
NADH	NADH	

Products

Table 55: Properties of each product.

Id	Name	SBO
NAD	NAD	
ETOH	Ethanol	

Kinetic Law

Derived unit contains undeclared units

$$v_{15} = \text{vol}(\text{cytosol}) \tag{2692}$$

						,
1	[NAD]	KmADHNAD·[ETOH]	KmADHNADH·[ACE]	[NADH]	[NAD]·[ETOH]	
1 7	[™] KiADHNAD [™]	KiADHNAD·KmADHETOH T	[™] KiADHNADH-KmADHACE	[™] KiADHNADH [™]	KiADHNAD·KmADHETOH	[⊤] KiAI

Table 56: Properties of each parameter.

Id	Name	SBO	Value	Unit	Constant
VmADH			810.000	mmol · l ⁻¹	· 🗹
				$(60 \text{ s})^{-1}$	
KiADHNAD			0.920	$\text{mmol} \cdot 1^{-1}$	\checkmark
KmADHETOH			17.000	$\text{mmol} \cdot 1^{-1}$	\checkmark
KeqADH			$6.9 \cdot 10^{-5}$	dimensionless	
KmADHNAD			0.170	$\operatorname{mmol} \cdot 1^{-1}$	\checkmark
KmADHNADH			0.110	$\operatorname{mmol} \cdot 1^{-1}$	
KiADHNADH			0.031	$\operatorname{mmol} \cdot 1^{-1}$	
KmADHACE			1.110	$\text{mmol} \cdot 1^{-1}$	\checkmark
KiADHACE			1.100	$\operatorname{mmol} \cdot 1^{-1}$	$\overline{\checkmark}$
KiADHETOH			90.000	$\operatorname{mmol} \cdot 1^{-1}$	

8.16 Reaction vG3PDH

This is an irreversible reaction of two reactants forming two products.

Name Glycerol 3-phosphate dehydrogenase

Reaction equation

$$TRIO + NADH \longrightarrow NAD + GLY \tag{2693}$$

Reactants

Table 57: Properties of each reactant.

Id	Name	SBO
TRIO	Triose-phosphate	
NADH	NADH	

Products

Table 58: Properties of each product.

Id	Name	SBO
NAD	NAD	
GLY	Glycerol	

Kinetic Law

Derived unit contains undeclared units

$$v_{16} = \frac{\frac{\text{vol(cytosol)} \cdot \text{VmG3PDH}}{\text{KmG3PDHDHAP} \cdot \text{KmG3PDHNADH}} \cdot \left(\frac{1}{1 + \text{KeqTPI}} \cdot [\text{TRIO}] \cdot [\text{NADH}] - \frac{[\text{GLY}] \cdot [\text{NAD}]}{\text{KeqG3PDH}}\right)}{\left(1 + \frac{1}{\text{KmG3PDHDHAP}} + \frac{[\text{TRIO}]}{\text{KmG3PDHDHAP}} + \frac{[\text{GLY}]}{\text{KmG3PDHGLY}}\right) \cdot \left(1 + \frac{[\text{NADH}]}{\text{KmG3PDHNADH}} + \frac{[\text{NAD}]}{\text{KmG3PDHNADH}}\right)}$$
(2694)

Table 59: Properties of each parameter.

Id	Name	SBO	Value	Unit	Constant
VmG3PDH			70.150	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	\checkmark
				$(60 \text{ s})^{-1}$	
KmG3PDHDHAP			0.400	$\operatorname{mmol} \cdot l^{-1}$	
KmG3PDHNADH			0.023	$\operatorname{mmol} \cdot l^{-1}$	
KeqG3PDH			4300.000	dimensionless	
KmG3PDHGLY			1.000	$mmol \cdot l^{-1}$	
KmG3PDHNAD			0.930	$\operatorname{mmol} \cdot 1^{-1}$	

8.17 Reaction vATP

This is a reversible reaction of one reactant forming no product influenced by one modifier.

Name ATPase activity

Reaction equation

$$P \stackrel{ATP}{\rightleftharpoons} \emptyset \tag{2695}$$

Reactant

Table 60: Properties of each reactant.

Id	Name	SBO
Р	High energy phosphates	

Modifier

Table 61: Properties of each modifier.

Id	Name	SBO
ATP	ATP concentration	

Kinetic Law

Derived unit $(60 \text{ s})^{-1} \cdot \text{mmol}$

$$v_{17} = \text{vol}(\text{cytosol}) \cdot \text{KATPASE} \cdot [\text{ATP}]$$
 (2696)

Table 62: Properties of each parameter.

Id	Name	SBO Value	Unit	Constant
KATPASE		33.7	$(60 \text{ s})^{-1}$	

9 Derived Rate Equations

When interpreted as an ordinary differential equation framework, this model implies the following set of equations for the rates of change of each species.

Identifiers for kinetic laws highlighted in gray cannot be verified to evaluate to units of

SBML substance per time. As a result, some SBML interpreters may not be able to verify the consistency of the units on quantities in the model. Please check if

- parameters without an unit definition are involved or
- volume correction is necessary because the hasOnlySubstanceUnits flag may be set to false and spacialDimensions > 0 for certain species.

9.1 Species GLCi

Name Glucose in Cytosol

Initial concentration $0.087 \text{ } \text{mmol} \cdot l^{-1}$

This species takes part in two reactions (as a reactant in vGLK and as a product in vGLT).

$$\frac{\mathrm{d}}{\mathrm{d}t}\mathrm{GLCi} = v_{14} - v_1 \tag{2697}$$

9.2 Species G6P

Name Glucose 6 Phosphate

Initial concentration $2.45 \text{ } \text{mmol} \cdot l^{-1}$

This species takes part in four reactions (as a reactant in vPGI, vGLYCO, vTreha and as a product in vGLK).

$$\frac{d}{dt}G6P = v_1 - v_2 - v_3 - 2v_4 \tag{2698}$$

9.3 Species F6P

Name Fructose 6 Phosphate

Initial concentration 0.62 mmol·l⁻¹

This species takes part in two reactions (as a reactant in vPFK and as a product in vPGI).

$$\frac{d}{dt}F6P = v_2 - v_5 \tag{2699}$$

9.4 Species F16P

Name Fructose-1,6 bisphosphate

Initial concentration 5.51 mmol·l⁻¹

This species takes part in two reactions (as a reactant in vALD and as a product in vPFK).

$$\frac{d}{dt}F16P = v_5 - v_6 \tag{2700}$$

9.5 Species TRIO

Name Triose-phosphate

Initial concentration $0.96 \text{ } \text{mmol} \cdot l^{-1}$

This species takes part in three reactions (as a reactant in vGAPDH, vG3PDH and as a product in vALD).

$$\frac{d}{dt}TRIO = 2v_6 - v_7 - v_{16} \tag{2701}$$

9.6 Species BPG

Name 1,3-bisphosphoglycerate

Initial concentration $0 \text{ } mmol \cdot l^{-1}$

This species takes part in two reactions (as a reactant in vPGK and as a product in vGAPDH).

$$\frac{\mathrm{d}}{\mathrm{d}t}\mathrm{BPG} = v_7 - v_8 \tag{2702}$$

9.7 Species P3G

Name 3-phosphoglycerate

Initial concentration $0.9 \text{ } \text{mmol} \cdot l^{-1}$

This species takes part in two reactions (as a reactant in vPGM and as a product in vPGK).

$$\frac{\mathrm{d}}{\mathrm{d}t} P3G = v_8 - v_9 \tag{2703}$$

9.8 Species P2G

Name 2-phosphoglycerate

Initial concentration $0.12 \text{ mmol} \cdot l^{-1}$

This species takes part in two reactions (as a reactant in vENO and as a product in vPGM).

$$\frac{d}{dt}P2G = v_9 - v_{10} \tag{2704}$$

9.9 Species PEP

Name Phosphoenolpyruvate

Initial concentration $0.07 \text{ } \text{mmol} \cdot l^{-1}$

This species takes part in two reactions (as a reactant in vPYK and as a product in vENO).

$$\frac{d}{dt}PEP = v_{10} - v_{11} \tag{2705}$$

9.10 Species PYR

Name Pyruvate

Initial concentration $1.85 \text{ } \text{mmol} \cdot l^{-1}$

This species takes part in two reactions (as a reactant in vPDC and as a product in vPYK).

$$\frac{d}{dt}PYR = v_{11} - v_{12} \tag{2706}$$

9.11 Species ACE

Name Acetaldehyde

Initial concentration $0.17 \text{ } \text{mmol} \cdot l^{-1}$

This species takes part in three reactions (as a reactant in vSUC, vADH and as a product in vPDC).

$$\frac{\mathrm{d}}{\mathrm{d}t}ACE = v_{12} - 2 v_{13} - v_{15} \tag{2707}$$

9.12 Species P

Name High energy phosphates

Initial concentration 6.31 mmol·l⁻¹

This species takes part in eight reactions (as a reactant in vGLK, vGLYCO, vTreha, vPFK, vSUC, vATP and as a product in vPGK, vPYK).

$$\frac{\mathrm{d}}{\mathrm{d}t}\mathbf{P} = v_8 + v_{11} - v_1 - v_3 - v_4 - v_5 - 4 v_{13} - v_{17}$$
(2708)

9.13 Species NAD

Name NAD

Initial concentration $1.2 \text{ mmol} \cdot l^{-1}$

This species takes part in four reactions (as a reactant in vGAPDH, vSUC and as a product in vADH, vG3PDH).

$$\frac{d}{dt}NAD = v_{15} + v_{16} - v_7 - 3v_{13}$$
 (2709)

9.14 Species NADH

Name NADH

Initial concentration $0.39 \text{ mmol} \cdot 1^{-1}$

This species takes part in four reactions (as a reactant in vADH, vG3PDH and as a product in vGAPDH, vSUC).

$$\frac{d}{dt}NADH = v_7 + 3 v_{13} - v_{15} - v_{16}$$
 (2710)

9.15 Species Glyc

Name Glycogen

Initial concentration $0 \text{ mmol} \cdot l^{-1}$

This species takes part in one reaction (as a product in vGLYCO), which does not influence its rate of change because this species is on the boundary of the reaction system:

$$\frac{\mathrm{d}}{\mathrm{d}t}\mathrm{Glyc} = 0\tag{2711}$$

9.16 Species Trh

Name Trehalose

Initial concentration $0 \text{ mmol} \cdot l^{-1}$

This species takes part in one reaction (as a product in vTreha), which does not influence its rate of change because this species is on the boundary of the reaction system:

$$\frac{\mathrm{d}}{\mathrm{d}t}\mathrm{Trh} = 0\tag{2712}$$

9.17 Species CO2

Name CO2

Initial concentration $1 \text{ mmol} \cdot l^{-1}$

This species takes part in one reaction (as a product in vPDC), which does not influence its rate of change because this species is on the boundary of the reaction system:

$$\frac{\mathrm{d}}{\mathrm{d}t}\mathrm{CO2} = 0\tag{2713}$$

9.18 Species SUCC

Name Succinate

Initial concentration $0 \text{ } \mathrm{mmol} \cdot l^{-1}$

This species takes part in one reaction (as a product in vSUC), which does not influence its rate of change because this species is on the boundary of the reaction system:

$$\frac{\mathrm{d}}{\mathrm{d}t}\mathrm{SUCC} = 0\tag{2714}$$

9.19 Species GLCo

Name Extracellular Glucose

Initial concentration $50 \text{ } \text{mmol} \cdot l^{-1}$

This species takes part in one reaction (as a reactant in vGLT), which does not influence its rate of change because this species is on the boundary of the reaction system:

$$\frac{\mathrm{d}}{\mathrm{d}t}\mathrm{GLCo} = 0\tag{2715}$$

9.20 Species ETOH

Name Ethanol

Initial concentration $50 \text{ } \text{mmol} \cdot l^{-1}$

This species takes part in one reaction (as a product in vADH), which does not influence its rate of change because this species is on the boundary of the reaction system:

$$\frac{\mathrm{d}}{\mathrm{d}t}\mathrm{ETOH} = 0\tag{2716}$$

9.21 Species GLY

Name Glycerol

Initial concentration $0.15 \text{ mmol} \cdot l^{-1}$

This species takes part in one reaction (as a product in vG3PDH), which does not influence its rate of change because this species is on the boundary of the reaction system:

$$\frac{\mathrm{d}}{\mathrm{d}t}\mathrm{GLY} = 0\tag{2717}$$

9.22 Species ATP

Name ATP concentration

Involved in rule ATP

This species takes part in five reactions (as a modifier in vGLK, vPFK, vPGK, vPYK, vATP) and is also involved in one rule which determines this species' quantity.

9.23 Species ADP

Name ADP concentration

Involved in rule ADP

This species takes part in three reactions (as a modifier in vGLK, vPGK, vPYK) and is also involved in one rule which determines this species' quantity.

9.24 Species AMP

Name AMP concentration

Involved in rule AMP

This species takes part in one reaction (as a modifier in vPFK) and is also involved in one rule which determines this species' quantity.

9.25 Species SUM_P

Name sum of AXP conc

Initial concentration $4.1 \text{ mmol} \cdot l^{-1}$

$$\frac{\mathrm{d}}{\mathrm{d}t}\mathrm{SUM}_{-}\mathrm{P} = 0 \tag{2718}$$

9.26 Species F26BP

Name F2,6P

Initial concentration $0.02 \text{ mmol} \cdot l^{-1}$

This species takes part in one reaction (as a modifier in vPFK).

$$\frac{\mathrm{d}}{\mathrm{d}t}\mathrm{F26BP} = 0\tag{2719}$$

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