

GU name	Effector	Effector Position	GU name	Effector	Effector Position
AlaS	alanine	intermediate	LsrR	AI-2	intermediate
AllR	glyoxylate	intermediate	MalT	MalK	intermediate
AllS	allantoin	intermediate	MalT	maltotriose	intermediate
AlsR	allose	intermediate	MelR	melibiose	intermediate
AraC	arabinose	intermediate	MetJ	SAM	intermediate
ArgP	arginine	intermediate	MetR	homo-cys	intermediate
ArgP	lysine	intermediate	MhpR	2,3-DHP	intermediate
ArgR	arginine	intermediate	MhpR	3HPP	intermediate
ArsR	arsenite	intermediate	MntR	Mn(II)	intermediate
AsnC	asparagine	intermediate	ModE	molybdate	intermediate
BetI	choline	intermediate	MqsA	MqsR	intermediate
ChbR	N-monoacetylchitobiose 6'-phosphate	intermediate	MurR	MurNAc-6-P	intermediate
Cra	fructose 1,6-biphosphate	intermediate	NanR	N-acetylneuraminate	intermediate
Cra	fructose 1-phosphate	intermediate	NhaR	Sodium	intermediate
CueR	Cu(I)	intermediate	NikR	nickel	intermediate
CynR	cyanate	intermediate	NrdR	dATP	intermediate
CysB	acetylserine	intermediate	PdhR	pyruvate	intermediate
CysB	sulfide	intermediate	PrpR	(2S,3S)-2-methylcitrate	intermediate
CysB	thiosulfate	intermediate	RcnR	cobalt ion	intermediate
CytR	cytidine	intermediate	RcnR	nickel	intermediate
DeoR	2-deoxy-D-ribose 5-phosphate	intermediate	RelB	RelE	intermediate
DhaR	DhaK	intermediate	RhaS	rhamnose	intermediate
DsdC	serine	intermediate	RutR	thymine	intermediate
FhlA	formate	intermediate	RutR	uracil	intermediate
FucR	fuculose-1-P	intermediate	TreR	alpha,alpha-trehalose 6-phosphate	intermediate
Fur	Fe+2	intermediate	TreR	trehalose	substrate /product
Fur	Mn(II)	intermediate	TrpR	tryptophan	intermediate
GalR	galactose	intermediate	TyrR	phenylalanine	intermediate
GalS	galactose	intermediate	TyrR	tryptophan	intermediate
GcvA	glycine	intermediate	TyrR	tyrosine	intermediate
GlcC	glycolate	intermediate	UxuR	fructuronate	intermediate
GlpR	glycerol-3-phosphate	intermediate	XapR	xanthosine	intermediate
GntR	gluconate	intermediate	XylR	xylose	intermediate
GutR	gulitol	substrate /product	YqjI	Fe+2	intermediate
HipB	HipA	intermediate	ZntR	Zinc	intermediate
IclR	glyoxylate	intermediate	Zur	Zinc	intermediate
IdnR	5-ketogluconate	intermediate			
IdnR	idonate	intermediate			
IlvY	alpha-acetolactate	intermediate			
LacI	allolactose	intermediate			
LldR	lactate	intermediate			

Table S1. Position of effectors with feedback in the regulated pathway of their GENSOR Units.