Table S7. Plasmid constructions	
Plasmid	Construction scheme ^a
pBJΩ1922	A 1Kb internal fragment of Mxan_1922 was amplified from the DZ2
	chromosome with primers 1922-1 / 1922-2 and cloned at the <i>EcoRI</i> and
D. 10.000	HindIII sites of pBJ114.
pBJΩ3374	A 1Kb internal fragment of Mxan_3374 was amplified from the DZ2
	chromosome with primers 3374-1 / 3374-2 and cloned at the <i>EcoRI</i> and
B101	HindIII sites of pBJ114.
pBJΩ1327	A 750bp internal fragment of Mxan_1327 was amplified from the DZ2
	chromosome with primers ins1327-1 / ins1327-2 and cloned at the
	HindIII and BamHI sites of pBJ114.
pBJ∆gltD	Primer pairs DAgmU7 / DAgmU8 and DAgmU9 / DAgmU10 were
	used to amplify 1kb fragment upstream and downstream from the <i>gltD</i>
	open-reading frame. The upstream fragment was first cloned at the
	<i>EcoRI</i> and <i>KpnI</i> sites of pBJ114. Then, the downstream fragment was
DI 15	ligated at the <i>KpnI</i> and <i>HindIII</i> sites of the pBJ114-upstream fragment.
pBJ∆gltE	Primer pairs DAgIT1 / DAgIT5 and DAgIT6 / DAgIT4 were used to
	amplify 1kb fragment upstream and downstream from the <i>gltE</i> open-
	reading frame. The upstream fragment was first cloned at the <i>EcoRI</i> and
	BamHI sites of pBJ114. Then, the downstream fragment was ligated at
	the <i>BamHI</i> and <i>HindIII</i> sites of the pBJ114-upstream fragment.
pBJ∆gltF	Primer pairs D4868-1 / D4868-5 and D4868-6 / D4868-4 were used to
	amplify 1kb fragment upstream and downstream from the <i>gltF</i> open-
	reading frame. The upstream fragment was first cloned at the <i>EcoRI</i> and
	BamHI sites of pBJ114. Then, the downstream fragment was ligated at
	the <i>BamHI</i> and <i>HindIII</i> sites of the pBJ114-upstream fragment.
pBJ∆gltG	Primer pairs D4867-1 / D4867-5 and D4867-6 / D4867-4 were used to
	amplify 1kb fragment upstream and downstream from the $gltG$ open-
	reading frame. The upstream fragment was first cloned at the <i>EcoRI</i> and
	BamHI sites of pBJ114. Then, the downstream fragment was ligated at
	the <i>BamHI</i> and <i>HindIII</i> sites of the pBJ114-upstream fragment.
pBJ∆gltH	Primer pairs D4866-1 / D4866-2 and D4866-3 / D4866-4 were used to
	amplify 1kb fragment upstream and downstream from the <i>gltH</i> open-
	reading frame. The fragments were then fused by overlap PCR and
"DIA altC	cloned at the <i>EcoRI</i> and <i>BamHI</i> sites of pBJ114.
pBJ∆gltC	Primer pairs D2541-1 / D2541-2 and D2541-3 / D2541-4 were used to amplify 1kb fragment upstream and downstream from the <i>gltC</i> open-
	reading frame. The upstream fragment was first cloned at the <i>EcoRI</i> and <i>BamHI</i> sites of pBJ114. Then, the downstream fragment was ligated at
pSWU30gltG	the <i>BamHI</i> and <i>HindIII</i> sites of the pBJ114-upstream fragment.
ps w 050gito	A fragment encompassing $gltG$ and the $gltG$ promoter region was amplified from the DZ2 chromosome with primers prom4867-BamHI /
	4867EcoRI-4 and cloned at the <i>BamHI</i> and <i>EcoRI</i> sites of pSWU30.
pSWU30gltFC	Primers prom4868-1 / 4868-sansSTOP-2 were used to amplify the
psw030gnrC	fragment $gltF$ and its promoter from the DZ2 chromosome. Primers
	4868-mcherry-3 / mcherry-4 were used to amplify the fragment
	<i>mCherry</i> from a plasmid containing the <i>mcherry</i> gene. Both fragments
	were fused by SOE-PCR and cloned at the <i>BamHI</i> and <i>HindIII</i> sites of
	pSWU30.
pBJ∆gltA	Primer pairs 2540-1 / 2540-2 and 2540-3 / 2540-4 were used to amplify
	1kb fragment upstream and downstream from the <i>gltA</i> open-reading
	frame. The upstream (<i>EcoRI</i> / <i>XbaI</i>) and downstream (<i>XbaI</i> / <i>HindIII</i>)
	fragment was cloned in one step at the <i>EcoRI</i> and <i>HindIII</i> sites of
pBJ∆gltB	pBJ114. Primer pairs 2539-1 / 2539-2 and 2539-3 / 2539-4 were used to amplify
рызданы	1kb fragment upstream and downstream from the <i>gltB</i> open-reading
	frame. The upstream (<i>EcoRI</i> / <i>XbaI</i>) and downstream (<i>XbaI</i> / <i>HindIII</i>)
	fragment was cloned in one step at the <i>EcoRI</i> and <i>HindIII</i> sites of

	pBJ114.
pBJ∆gltK	Primer pairs 2538-1 / 2538-2 and 2538-3 / 2538-4 were used to amplify
	1kb fragment upstream and downstream from the <i>gltK</i> open-reading
	frame. The upstream (EcoRI / XbaI) and downstream (XbaI / HindIII)
	fragment was cloned in one step at the EcoRI and HindIII sites of
	pBJ114.
pUT18AglR	A fragment encompassing <i>aglR</i> was amplified from the DZ2
	chromosome with primers GMOA-O1 / GMOA-O2 and cloned at the
	<i>HindIII</i> and <i>EcoRI</i> sites of pUT18.
pKT25GltG	A fragment encompassing <i>gltG</i> was amplified from the DZ2
	chromosome with primers 4867-O1 / 4867-O2 and cloned at the XbaI
	and <i>EcoRI</i> sites of pKT25.

^a All plasmid inserts were sequenced to ensure the absence of PCR-introduced mutations.