

Table 4. Genes unique to fer1 and fer1(env).

fer1	ANNOTATION
FA01	hypothetical protein
FA02	hypothetical protein
FA03c	transposase
FA04c	conserved hypothetical protein predicted to be involved in DNA repair
FA05c	uncharacterized protein predicted to be involved in DNA repair
FA06c	RecB family exonuclease
FA07c	predicted helicase
FA08c	conserved hypothetical protein
FA09c	uncharacterized protein predicted to be involved in DNA repair
FA10c	hypothetical protein
FA11c	uncharacterized protein predicted to be involved in DNA repair (RAMP superfamily)
FA12	superfamily I DNA/RNA helicase
FA13	DNA or RNA helicase of superfamily II
FA14	ATPase involved in DNA repair/chromosome segregation
FA15	hypothetical protein
FA36	conserved hypothetical protein
FA37	hypothetical protein
FA61	transposase
FA77	transposase
FA119c	transposon-encoded protein
FA120	transposase
FA128c	transposase
FA187	transposase
FA437	transposase
FA438c	transposase
FA465c	hypothetical protein (MazF growth inhibitor-related)
FA466c	conserved hypothetical protein
FA477c	transposase (DDE domain)
FA569c	predicted nucleic acid-binding protein (PIN domain)
FA570c	conserved hypothetical protein
FA571	integrase/recombinase
FA572	hypothetical protein
FA573	hypothetical protein
FA578c	hypothetical protein
FA579	integrase/recombinase
FA580	conserved hypothetical protein
FA581c	galactose mutarotase-related protein
FA582c	probable selenocysteine synthase (seryl-tRNA ^{Ser} selenium transferase)
FA583c	short-chain alcohol dehydrogenase
FA584c	amino acid transporter
FA585c	predicted DNA-binding protein
FA586c	N-carbamoyl-L-amino acid amidohydrolase
FA589c	hypothetical protein
FA590	hypothetical protein
FA591	hypothetical protein
FA592	possible inactivated transposase
FA593	permease (major facilitator superfamily)
FA594	dihydroorotase-related cyclic amidohydrolase
FA595	benzoylformate decarboxylase-related thiamine pyrophosphate-requiring enzyme
FA596c	hypothetical protein
FA597c	hypothetical protein

FA598c	conserved hypothetical protein
FA677c	transposase
FA678c	transposase
FA750c	possible inactivated transposase
FA751c	transposase
FA772	transposase
FA774	hypothetical membrane protein
FA791	probable transposase
FA792	transposase
FA793	transposase
FA794	transposase (DDE domain)
FA797	conserved hypothetical protein (possible nucleic acid-binding protein)
FA872c	transposase
FA876c	inactivated transposase
FA877c	transposase
FA878c	hypothetical membrane protein; possible permease
FA879c	transposase
FA880c	transposase
FA1094c	transposase
FA1194	hypothetical membrane protein
FA1195	hypothetical protein
FA1196	hypothetical protein
FA1197	hypothetical membrane protein
FA1198	hypothetical membrane protein
FA1207c	metabolite transporter
FA1209c	predicted metal-dependent hydrolase related to alanyl-tRNA synthetase
FA1210c	tRNA-pseudouridine synthase I-related protein
FA1211	possible transcriptional regulator
FA1220	conserved hypothetical protein
FA1221	conserved hypothetical protein possibly involved in DNA repair
FA1222	conserved hypothetical protein possibly involved in DNA repair
FA1223	predicted helicase
FA1224	predicted RecB family exonuclease (truncated by transposon insertion)
FA1225c	transposon-encoded protein
FA1226	transposase
FA1227	predicted RecB family exonuclease (truncated by transposon insertion)
FA1228	uncharacterized protein predicted to be involved in DNA repair
FA1229	conserved hypothetical protein possibly involved in DNA repair
FA1230	hypothetical protein
FA1231c	probable inactivated transposase
FA1232c	probable inactivated transposase
FA1233c	conserved hypothetical protein
FA1234	predicted membrane-associated protease with chaperone function
FA1239c	transposase
FA1240	transposon-encoded protein
FA1242c	type I restriction-modification enzyme, M subunit
FA1243c	Co/Zn/Cd efflux system component
FA1244c	hypothetical membrane protein
FA1245c	hypothetical protein
FA1246c	hypothetical protein
FA1247c	hypothetical protein
FA1248c	transposase
FA1249	possible multi-drug efflux permease
FA1283c	transposase/integrase

FA1293	hypothetical protein
FA1324c	transposase
FA1325	transposon-encoded protein
FA1425	integrase
FA1426c	hypothetical protein
FA1427c	hypothetical protein
FA1428	hypothetical protein
FA1429	hypothetical protein
FA1430	possible phage-related DNA primase/helicase (ATPase domain)
FA1431	hypothetical protein
FA1432	hypothetical protein
FA1433	hypothetical protein
FA1434	hypothetical protein
FA1435	hypothetical protein
FA1436	hypothetical protein
FA1437	hypothetical protein
FA1438	hypothetical protein
FA1439	hypothetical protein
FA1440	hypothetical protein
FA1441	hypothetical protein
FA1442	hypothetical protein (Zot-related)
FA1443	hypothetical protein
FA1444	possible phage integrase
FA1445c	conserved hypothetical membrane protein
FA1446	site-specific DNA methylase
FA1447	hypothetical protein
FA1682	transposase
FA1703	transposase
FA1704	transposase
FA1735c	probable transposon-encoded protein
FA1736	transposase
FA1783	transposase
FA1787	transposase (integrase core domain)
FA1797	probable glycosyltransferase
FA1855	transposase
FA1941c	hypothetical protein
FA1942c	hypothetical protein
FA1943	transposase
FA1944c	hypothetical protein
FA1945c	predicted ATPase (possible endonuclease)
FA1946	possible transcriptional regulator
FA1947	conserved hypothetical protein
FA1948	hypothetical protein
FA1949c	hypothetical protein
FA1950c	hypothetical protein
FA1958	hypothetical protein
FA1959	transposase

fer1(env)**ANNOTATION**

env_52_2	mrr restriction system protein
env_58_28	hypothetical protein
env_63_19	conserved hypothetical membrane protein
env_65_4	hypothetical protein (possible signal peptidase)
env_65_5	hypothetical membrane protein
env_65_6	hypothetical protein
env_65_7	hypothetical protein
env_139_4	predicted phosphate transport protein
env_148_14	predicted inactivated transposase
env_149_4	hypothetical protein
env_184_16	hypothetical protein
env_243_11	hypothetical protein
env_246_10	transposase
env_246_9	transposase
env_249_13	conserved hypothetical protein
env_249_14	hypothetical protein
env_249_6	hypothetical protein
env_262_6	Type II restriction-modification methylase
env_262_7	Type II restriction-modification endonuclease
env_342_1	ABC-type sugar transport system, substrate-binding component
env_354_1	hypothetical protein
env_419_10	predicted inactivated transposase
env_442_2	integrase/recombinase
env_442_5	hypothetical protein
env_442_6	hypothetical protein
env_450_5	conserved hypothetical protein
env_450_6	hypothetical protein
env_476_1	hypothetical protein
env_476_2	hypothetical protein
env_580_5	hypothetical protein
env_588_4	hypothetical protein
env_588_6	hypothetical protein
env_636_3	hypothetical protein
env_636_4	hypothetical protein
env_636_5	hypothetical protein
env_663_5	conserved hypothetical protein (possible ATPase)
env_701_2	hypothetical protein
env_711_6	integrase/recombinase
env_722_3	hypothetical protein
env_722_5	possible glycosyltransferase
env_833_3	hypothetical protein
env_848_4	possible glycosyltransferase
env_932_3	hypothetical protein
env_986_2	ABC-type sugar transport system, substrate-binding component
env_1120_3	predicted protease