

MAFF303099-specific upregulated genes in bacteroid			MAFF303099 & R7A-shared upregulated genes in bacteroid		
El-1	mll5803	unknown protein	mlr5805	cytochrome c peroxidase	
	mll5804	hypothetical protein	mlr5807	transcriptional regulator	
	msr5806	unknown protein	mll5809	succinic semialdehyde dehydrogenase	
	mll5813	transposase	mll5810	chaperonin groEL	
	mll5814	N-hydroxyarylamine O-acetyltransferase	msl5812	chaperonin groES	
	mll5815	coproporphyrinogen III dehydrogenase	mll5837	NIFA, NIF-SPECIFIC REGULATORY PROTEIN	
	mll5816	unknown protein	mll5840	C4-dicarboxylate transport protein	
	mll8748	unknown protein	msl5852	hypothetical protein(fixJ protein)	
	msr5817	unknown protein	mll5854	hypothetical protein(nifZ protein)	
	mlr5819	hypothetical protein	msl8750	ferredoxin 2[4Fe-4S], fdxN	
	mll5838	hypothetical protein	mll5855	nitrogen fixation protein nifB	
	mll5839	unknown protein	mll5857	nif-specific regulatory protein,nifA	
	mll5844	unknown protein	msl5859	FERREDOXIN LIKE PROTEIN, fixX	
	mlr5845	hypothetical protein	mll5860	nitrogen fixation protein,fixC	
	mll5853	hypothetical protein	mll5861	nitrogen fixation protein,fixB	
	msr8678	unknown protein	mll5862	nitrogen fixation protein,fixA	
	msr5868	hypothetical protein	mll5864	nitrogenase stabilizer NifW	
	mlr5875	unknown protein	mll5865	nitrogenase cofactor synthesis protein nifS	
	msr5877	unknown protein	mlr5867	ABC transporter, ATP-binding protein exsA	
	mlr5879	hypothetical protein	mlr5869	ferredoxin 2[4Fe-4S] III, fdxB	
	mlr5880	hypothetical protein	mlr5871	nitrogen fixation protein nifQ	
	mlr5881	hypothetical protein	mll5872	RNA POLYMERASE SIGMA-54 FACTOR rpoN	
	mlr5886	unknown protein	mll5873	peroxiredoxin 2 family protein	
	mlr5887	unknown protein	mlr5876	CYTOCHROME P450	
	mll5889	unknown protein	mlr5878	gamma-BHC dehydrochlorinase	
	mlr5890	hypothetical protein	mlr5882	Phosphoenolpyruvate Mutase	
	mlr5896	transport system permease protein	mlr5883	aspartate transaminase	
	mlr5897	transport system permease protein	mlr5884	similar to hemolysin erythrocyte lysis protein 2	
	msr5902	unknown protein	mlr5888	asparagine synthetase	
	mlr5903	plasmid stabilization protein	mlr5905	nitrogenase iron protein, nifH	
	mll8741	unknown protein	mlr5906	nitrogenase molybdenum-iron protein alpha chain, nifD	
	mlr5912	hypothetical protein	mlr5907	nitrogenase molybdenum-iron protein beta chain, nifK	
	mlr5914	hypothetical protein	mlr5908	nitrogenase molybdenum-cofactor synthesis protein nifE	
	mlr5915	hypothetical protein	mlr5909	nitrogenase molybdenum-iron protein beta chain, nifN	
	msl5919	unknown protein	mlr5911	nitrogenase molybdenum-iron protein nifX	
	msl5920	unknown protein	mlr5913	phosphate regulatory protein	
	mlr5924	unknown protein	mll5917	acetoacetate decarboxylase	
	msr5928	hypothetical protein	mll5922	GDP-D-mannose dehydratase(nodulation protein Noel.)	
	mll5933	unknown protein	mlr5923	lysine:N6-hydroxylase	
	mlr5935	unknown protein	mlr5926	similar to tRNA synthetase	
	mll5936	hypothetical protein	mlr5930	ferredoxin 2[4Fe-4S] III, fdxB	
	mll8751	unknown protein	mlr5932	1-aminocyclopropane-1-carboxylate deaminase	
	msl8680	unknown protein	mll5934	transcriptional regulator	
	mll5942	hypothetical protein	mll5941	nitrogen fixation protein nifU	
	mlr5944	unknown protein	mlr5943	L-2,4-diaminobutyric acid transaminase	
	mlr5945	unknown protein	mll5967	transposase	
	mlr5946	transposase			
	msr5947	transposase			
	mll5948	transposase			
	mll5949	transposase			
	mll5951	unknown protein			
	mlr5952	transposase			
	mll8752	unknown protein			
	mlr5955	unknown protein			
	mll5956	integrase/recombinase			
	mll5957	integrase/recombinase			
	mll5958	integrase/recombinase			
	mlr5962	unknown protein			
	mll5963	hypothetical protein			
	mll5964	transposase			
	mlr5965	transposase			
	msl5966	unknown protein			
	msl8683	unknown protein			
	mlr5971	L-lysine 2,3-aminomutase			
	msr5972	transposase			
	mlr5973	integrase/recombinase			
El-2	msl6054	unknown protein	mlr6063	transposase	
	mll6055	hypothetical protein			
	mlr6056	hypothetical protein			
	msl6057	unknown protein			
	mll6059	unknown protein			
	msl6060	unknown protein			
	msr6061	unknown protein			
	msr8685	unknown protein			
	mll6062	hypothetical protein			
El-3	msl6120	unknown protein	mlr6101	aminotransferase	
	msl6121	unknown protein	mlr6102	transcriptional regulator	
	mll8742	unknown protein	mlr6103	conjugation factor synthetase, tral	
			mlr6114	serine hydroxymethyltransferase	
			mlr6115	S-adenosylmethionine synthetase	
			mlr6117	carbohydrate kinase	
			msr6116	carbohydrate kinase	
			mlr6118	cold-shock protein	
			mll6119	TRANSCRIPTIONAL REGULATORY PROTEIN	
			mll6123	5-methyltetrahydropteroyltriglutamate-homocysteine methyltransferase	
			mll6125	cytochrome P450-family protein	
			mll6127	outer membrane protein	
			mll6128	transposase	
			mlr6129	transcriptional regulator	
			mlr6130	L-threonine aldolase	

			mlr6131 hypothetical protein
			mlr6132 outer membrane serine protease
El-4	msl6205	similar to 5-methyltetrahydrofolate-homocysteine S-methyltransferase	mll6220 transposase
	mll6206	similar to 5-methyltetrahydrofolate-homocysteine S-methyltransferase	mll6225 transposase
	mll6207	DNA-damage-inducible protein	
	mlr6209	histidine decarboxylase	
	mlr6210	glutamine synthetase III	
	mll6211	alanine racemase	
	mll6212	hypothetical protein	
	msl6213	hypothetical protein	
	mlr6215	unknown protein	
	mlr6217	hypothetical protein	
	mlr6218	probable dipeptidase	
	msr6219	transposase	
	msl6221	transposase	
	mll6222	transposase	
	mll6223	transposase	
	mll6224	transposase	
	mlr6226	methyltransferase	
El-5	mll6279	hypothetical protein	
	mll6280	hypothetical protein	
	msr6281	unknown protein	
	mlr6282	similar to phosphinothricin tripeptide synthetase B	
	mlr6283	L-proline 3-hydroxylase	
	mll6284	putative transporter	
	mlr6294	hypothetical protein	
	mlr6296	putative carboxylase	
	mlr6298	gamma-glutamyl kinase	
	mlr6299	transcription regulator	
	mlr6301	transposase	
El-6	mll6362	transposase	mll6363 resolvase-like
	mlr6369	hypothetical protein	mlr6364 cytochrome P-450
	mlr6370	hypothetical protein	mlr6365 cytochrome P-450
	mlr6371	hypothetical protein	mlr6366 PROBABLE SHORT-CHAIN TYPE DEHYDROGENASE/REDUCTASE
			mlr6367 cytochrome P450
			mlr6368 geranyltranstransferase
			mlr6372 transport protein
El-7	msr6406	unknown protein	mlr6405 conjugal transfer protein trbl
			mll6408 coproporphyrinogen oxidase III
			mlr6409 transcriptional regulator
			mll6410 hypothetical protein
			mlr6411 cytochrome-c oxidase fixN chain
			mlr6412 cytochrome-c oxidase fixO chain
			msr6413 cytochrome-c oxidase fixQ chain
			mlr6414 cytochrome-c oxidase fixP chain
			mlr6415 nitrogen fixation protein fixG
			mlr6416 nitrogen fixation protein fixH
			mlr6417 nitrogen fixation protein fixI