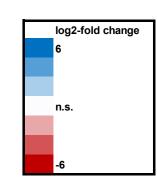
	B (T		
Genbank	Protein (NCBI)	СОММ	U	AI M	In Fe	Col	Su Cd	Ni
UIJ70168.1	Hypothetical protein lw858 33620 (plasmid)			+	+	₩	+	\vdash
UIJ67978.1	Transglycosylase		+	+	+	₩	+	┢
UIJ69423.1	Acyl carrier protein		_	+	—	₩	—	<u> </u>
UIJ66240.1	Translation initiation factor if-1					\sqcup	\bot	
UIJ66811.1	Ectonucleotide pyrophosphatase/phosphodiesterase				$oldsymbol{\perp}$	Ш		
UIJ64381.1	Sdr family oxidoreductase					Ш		
UIJ68572.1	Isochorismatase family protein							
UIJ69446.1	Flavodoxin-dependent (e)-4-hydroxy-3-methylbut-2-enyl-diphosphate synthase							
UIJ65389.1	Hypothetical protein lw858 20935			T	1	Ħ		
UIJ65324.1	Trna threonylcarbamoyladenosine dehydratase			T		П		
UIJ65937.1	Ferritin			T		П		
UIJ69189.1	Copper homeostasis protein cutc			T		П		
UIJ67731.1	Duf3913 family protein			T		П		
UIJ64815.1	Methionyl-trna formyltransferase							
UIJ65126.1	Elongation factor p							
UIJ64819.1	Dna-directed rna polymerase subunit omega			\perp	Щ.	Ш		
UIJ66239.1	50s ribosomal protein I36					Щ		
UIJ65025.1	Fixh family protein					\sqcup		
UIJ70191.1	Cys-gln thioester bond-forming surface protein (plasmid)			4	—	₩		
UIJ68566.1	Ykvs family protein		4	+	+	₩	_	\vdash
UIJ66464.1	Ywhd family protein		+	+	+	₩	+	
UIJ64511.1 UIJ64690.1	Flavodoxin Iron-hydroxamate abc transporter substrate-binding protein		+	+	+	 		+
UIJ64802.1	Phosphate acyltransferase plsx		+	+	+	┢	_	
UIJ66462.1	4-oxalocrotonate tautomerase		+	+	+	+	+	+
UIJ65464.1	Hypothetical protein lw858 21360		\dashv	+	+	\forall	+	\vdash
UIJ66423.1	Glycosyltransferase family 4 protein		\dashv	十	+	\vdash	+	+
UIJ64881.1	Yugn-like family protein		\dashv	+	+	H	\top	\vdash
UIJ66035.1	Degv family protein			一		口	丁	
UIJ67343.1	Hypothetical protein lw858 03415			十	丁			
UIJ69267.1	Ld-carboxypeptidase			J				
UIJ65424.1	Glutamate racemase		丁	\int				
UIJ67675.1	(fe-s)-binding protein			工				Ш
UIJ64895.1	Pyridoxamine 5'-phosphate oxidase family protein			工	厂	Щ		
UIJ65521.1	Acetyl-coa carboxylase, carboxyltransferase subunit beta			工	Щ	Щ		
UIJ66957.1	Peptide mfs transporter			工	ــــــــــــــــــــــــــــــــــــــ	igspace		
UIJ64909.1	Gapa-binding peptide sr1p		4	\bot	4	\sqcup	\bot	\square
UIJ66132.1	Trna (adenosine(37)-n6)-threonylcarbamoyltransferase complex dimerization subunit type 1 tsab			\bot	4	${oldsymbol{\sqcup}}$	+	\square
UIJ68520.1	Yoku family protein		_	+	+	₩	+	<u> </u>
UIJ66828.1	Cadmium-translocating p-type atpase			_	—	₩	—	<u> </u>
UIJ69534.1	Hypothetical protein lw858 30370 (plasmid)			4	+	₩	_	
UIJ66218.1	Ybbr-like domain-containing protein		+	+	+	₩	_	
UIJ65729.1	Yegs/rv2252/bmru family lipid kinase		+	+	+	₩	+	
UIJ67003.1	D-ribose pyranase		+	+	+	₩	+	+
UIJ67412.1 UIJ69494.1	Duf6359 domain-containing protein Duf3981 domain-containing protein		+	+	+	╆	_	
	Polysaccharide deacetylase		- 1			+	4	
111160045 1				+	+	1 1		
UIJ69045.1			4	\ddagger	丰	${oldsymbol{arphi}}$	+	
UIJ64950.1	Aminotransferase a			+	\mp	${\parallel}$	\mp	
UIJ64950.1 UIJ64425.1	Aminotransferase a Fmn-binding negative transcriptional regulator			‡ ‡	 	H	+	
UIJ64950.1 UIJ64425.1 UIJ66334.1	Aminotransferase a Fmn-binding negative transcriptional regulator 16s rrna (cytidine(1402)-2'-o)-methyltransferase			‡ + +	<u>+</u> +	H		
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UIJ67285.1	Dna (cytosine-5-)-methyltransferase	П	Т	$\overline{}$	$\overline{}$	$\overline{\top}$	
UIJ65786.1	Aminotransferase	H	+	+	+	++	
UIJ65584.1	Gfo/idh/moca family oxidoreductase	\vdash	+	+	+	++	
UIJ68510.1	Aldehyde dehydrogenase family protein	\vdash	+	+	+	++	
UIJ67895.1	3-methyl-2-oxobutanoate hydroxymethyltransferase	\vdash	+	+	+	++	
UIJ66413.1	Yfho family protein		+	+	+		
UIJ69840.1	Hypothetical protein lw858 31855 (plasmid)		+	+	+	+	
UIJ67720.1	Abortive phage infection protein	\vdash	+	+			
UIJ65300.1	Yrrs family protein	\vdash	+	十	+		
UIJ69099.1	Hypothetical protein lw858 13180	\vdash	+	十		++	
UIJ64789.1	Signal peptidase i	\vdash	+	+	+		
UIJ66515.1	Low molecular weight protein arginine phosphatase	\vdash	+	+	+	+	
UIJ65712.1	Yitt family protein	\vdash	+	+		++	
UIJ64667.1	Trna (adenosine(37)-n6)-dimethylallyltransferase miaa	\vdash	+	+	_	┿	
UIJ68081.1	Duf445 domain-containing protein	\vdash	+	+	+	++	
UIJ65998.1	Thioredoxin-disulfide reductase	\vdash	+	+	+	\blacksquare	
UIJ67416.1	Tetr/acrr family transcriptional regulator	\vdash	+	+			
UIJ65608.1	Thioredoxin family protein	\vdash	+	+	+		
UIJ67885.1	Zinc metallopeptidase	\vdash	+	+	+	++	
UIJ64894.1	Phoh family protein	\vdash	+	+	+	++	
UIJ68527.1	Sporulation protein	\vdash	+	+	+	\blacksquare	
UIJ70204.1	Replication/maintenance protein repl (plasmid)	\vdash	+	+	+	++	
UIJ65045.1	Bifunctional diaminohydroxyphosphoribosylaminopyrimidine deaminase/5-amino-6-(5-phosphoribosylamino)uracil reductase ribd	\vdash	+	+	+	++	
UIJ64665.1		\vdash	+	+	+	++	
UIJ64338.1	Tyrosine-type recombinase/integrase Oxidoreductase	\vdash	+	+	+		
	-	\vdash	+	+	+		
UIJ69081.1	Heme-degrading monooxygenase hmoa	$\vdash \vdash$	+	+	+	-	+
UIJ64738.1	Insulinase family protein	$\vdash \vdash$	+	+	+	++	+
UIJ68630.1	Duf5519 family protein	$\vdash \vdash$	+	+	+	++	+
UIJ66504.1	Type b 50s ribosomal protein l31	$\vdash \vdash$	+	+	+	++	+
UIJ69885.1	Hypothetical protein lw858 31605 (plasmid)	$\vdash \vdash$	+	+	+	++	+
UIJ69571.1	Hu family dna-binding protein (plasmid)		+	+	+	 	+
UIJ66385.1	Cell wall metabolism dna-binding response regulator walr		+	+	+	+	+
UIJ65092.1	Butyrate kinase	\vdash	+	+	+	++	+
UIJ68491.1	Alcohol dehydrogenase adhp	$\vdash \downarrow$	\dashv	+	+		
UIJ65018.1	Marr family transcriptional regulator	$oldsymbol{\sqcup}$		+	1	4	
UIJ65705.1	S-ribosylhomocysteine lyase luxs	$\vdash \vdash$	+	+	+	++	
UIJ67007.1	Fructose-6-phosphate aldolase	${oldsymbol{arphi}}$	\dashv	+	+	$+\!\!+\!\!\!+$	
UIJ65247.1	Elongation factor 4	${oxdot}$	\dashv	+	4	\coprod	
UIJ67785.1	Diaminopimelate decarboxylase	${oxdot}$	\dashv	+	+	+	
UIJ67901.1	Aspartate transaminase aspb	${oxdot}$	\dashv	+	4	++	
UIJ68465.1	Thymidylate synthase		4	+	+	lacksquare	
UIJ67915.1	Class i sam-dependent rna methyltransferase		\bot	+	+		
UIJ69961.1	Duf2089 domain-containing protein (plasmid)			_	_	\blacksquare	
UIJ67337.1	Heavy metal-binding domain-containing protein			4	4	#	
UIJ65365.1	50s ribosomal protein I21		4	+	+	++	
UIJ69838.1	Rpn family recombination-promoting nuclease/putative transposase (plasmid)		4	+	+	++	
UIJ65589.1	Catabolite control protein a	Ш	4	\dashv		++	
UIJ67011.1	(r,r)-butanediol dehydrogenase		4	\dashv	\bot	$+\!\!+\!\!\!+$	
UIJ66709.1	Peroxiredoxin		4	\dashv	\bot	$+\!\!+\!\!\!+$	
UIJ65974.1	Triose-phosphate isomerase	Ш	4	\dashv	+	++	
UIJ65250.1	30s ribosomal protein s20	Ш	4	\dashv	\bot	$+\!\!+\!\!\!+$	
UIJ65296.1	O-acetylserine dependent cystathionine beta-synthase	Ш	4	\dashv		++	
UIJ65769.1	Cold-shock protein cspd	Ш	4	\bot		$\bot \bot$	
UIJ67816.1	Duf47 domain-containing protein	Ш	_	\bot		$\bot \bot$	
UIJ65976.1	Type i glyceraldehyde-3-phosphate dehydrogenase		4	\bot	\bot	$\bot \bot$	
UIJ66708.1	Alkyl hydroperoxide reductase subunit f		4	_	\bot	$\bot \bot$	
UIJ65503.1	Glyceraldehyde-3-phosphate dehydrogenase	Ш		丄		$\perp \perp$	
UIJ66136.1	Rna-binding transcriptional accessory protein	Ш	4	\bot		$\bot \bot$	
UIJ65067.1	N-acetyl-gamma-glutamyl-phosphate reductase	Ш		丄	丄	$\bot \bot$	
				丄	丄	$\bot \bot$	
UIJ66128.1	Redox-sensing transcriptional repressor rex	-		- 1		$\bot \bot$	
	3-oxoacyl-[acyl-carrier-protein] reductase			_	o	1 1	
UIJ66128.1	· · · · · · · · · · · · · · · · · · ·			士	工	\bot	
UIJ66128.1 UIJ64800.1 UIJ65485.1 UIJ65676.1	3-oxoacyl-[acyl-carrier-protein] reductase Phenylalaninetrna ligase subunit alpha Phosphoenolpyruvate carboxykinase (atp)			\pm	上	廿	
UIJ66128.1 UIJ64800.1 UIJ65485.1 UIJ65676.1 UIJ65448.1	3-oxoacyl-[acyl-carrier-protein] reductase Phenylalaninetrna ligase subunit alpha Phosphoenolpyruvate carboxykinase (atp) Thioredoxin			<u> </u>	\pm	\pm	
UIJ66128.1 UIJ64800.1 UIJ65485.1 UIJ65676.1 UIJ65448.1 UIJ65089.1	3-oxoacyl-[acyl-carrier-protein] reductase Phenylalaninetrna ligase subunit alpha Phosphoenolpyruvate carboxykinase (atp) Thioredoxin 3-methyl-2-oxobutanoate dehydrogenase subunit beta			+ + + + + + + + + + + + + + + + + + +			
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UIJ66128.1 UIJ64800.1 UIJ65485.1 UIJ65676.1 UIJ65448.1 UIJ65089.1 UIJ65297.1 UIJ65800.1	3-oxoacyl-[acyl-carrier-protein] reductase Phenylalaninetrna ligase subunit alpha Phosphoenolpyruvate carboxykinase (atp) Thioredoxin 3-methyl-2-oxobutanoate dehydrogenase subunit beta 5'-methylthioadenosine/s-adenosylhomocysteine nucleosidase Hotdog fold thioesterase			 			
UIJ66128.1 UIJ64800.1 UIJ65485.1 UIJ65676.1 UIJ65448.1 UIJ65089.1 UIJ65297.1 UIJ65800.1 UIJ65779.1	3-oxoacyl-[acyl-carrier-protein] reductase Phenylalaninetrna ligase subunit alpha Phosphoenolpyruvate carboxykinase (atp) Thioredoxin 3-methyl-2-oxobutanoate dehydrogenase subunit beta 5'-methylthioadenosine/s-adenosylhomocysteine nucleosidase Hotdog fold thioesterase L-lactate dehydrogenase			<u>+</u> + + + +			
UIJ66128.1 UIJ64800.1 UIJ65485.1 UIJ65676.1 UIJ65448.1 UIJ65089.1 UIJ65297.1 UIJ65800.1 UIJ65779.1 UIJ66554.1	3-oxoacyl-[acyl-carrier-protein] reductase Phenylalaninetrna ligase subunit alpha Phosphoenolpyruvate carboxykinase (atp) Thioredoxin 3-methyl-2-oxobutanoate dehydrogenase subunit beta 5'-methylthioadenosine/s-adenosylhomocysteine nucleosidase Hotdog fold thioesterase L-lactate dehydrogenase Rod shape-determining protein						
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					UIJ64763.1 UIJ66283.1
				Translation initiation factor if-2	JI, I66283 1
				Cysteinetrna ligase	
$+\!\!\!\!+\!\!\!\!\!-$	+ +	\sqcup		Gtp-binding protein	UIJ66832.1
$\bot \bot$	++	\sqcup		Hypothetical protein lw858 33040 (plasmid)	UIJ70137.1
$\bot \bot$	$\bot \bot$	Ш		Atp-dependent protease atpase subunit hslu	UIJ64779.1
$\bot \bot \bot$				Atp-dependent protease atp-binding subunit clpc	UIJ66291.1
$\bot \bot$	$\bot\bot$	Ш		Nad-dependent dna ligase liga	UIJ66620.1
	$\bot\bot$	Ш		Flavin reductase family protein	UIJ66512.1
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				6,7-dimethyl-8-ribityllumazine synthase	UIJ65048.1
				Pyruvate carboxylase	UIJ64890.1
				D-alanined-alanine ligase	UIJ66148.1
				Glycerate dehydrogenase	UIJ67781.1
				Nucleotide exchange factor grpe	UIJ65242.1
				30s ribosomal protein s1	UIJ67856.1
\Box	11			Lactonase family protein	UIJ64311.1
	11			Iron-sulfur cluster assembly accessory protein	UIJ65823.1
				Type i dna topoisomerase	UIJ64783.1
11				Pyruvate kinase	UIJ65518.1
\Box				Carbamoyl-phosphate synthase large subunit	UIJ64832.1
	11			Ribonuclease r	UIJ65967.1
	11			Type ii toxin-antitoxin system death-on-curing family toxin (plasmid)	UIJ69527.1
++-	+			Methionine adenosyltransferase	UIJ65675.1
++-	+			30s ribosomal protein s16	UIJ64794.1
++-	++	\vdash		Redox-regulated molecular chaperone hslo	UIJ66305.1
	++			Thiol peroxidase	UIJ65554.1
+	++	+		Phosphocarrier protein hpr	UIJ64988.1
+-	++	\vdash		Hydroxylamine reductase	UIJ64366.1
+ -	++	\vdash		Glutamate synthase	UIJ66883.1
++-	++	+		50s ribosomal protein I15	UIJ66244.1
	++	+		Glyoxalase/bleomycin resistance/dioxygenase family protein	UIJ66244.1 UIJ68731.1
\vdash	++	\vdash	-++		
+	++	\vdash		Bifunctional 2',3'-cyclic-nucleotide 2'-phosphodiesterase/3'-nucleotidase	UIJ65058.1
+-	++	+		Duf402 domain-containing protein	UIJ66880.1
+	++	\vdash		Nitrate transporter nark	UIJ68402.1
++-	++			Efflux rnd transporter periplasmic adaptor subunit	UIJ66592.1
++-	++			Prephenate dehydrogenase	UIJ69055.1
+	++			Spermidine/putrescine abc transporter substrate-binding protein potd	UIJ67661.1
+	++	\vdash		Biofilm matrix protein caly	UIJ67653.1
$+\!\!\!\!+\!\!\!\!\!-$	++	\sqcup		Urocanate hydratase	UIJ64616.1
$\bot \bot$	$\bot \bot$	Ш		1,4-alpha-glucan branching protein glgb	UIJ65776.1
\bot				Sulfate adenylyltransferase	UIJ67788.1
	$\perp \perp$			50s ribosomal protein I29	UIJ66254.1
$\bot \bot$	$\perp \perp$			Sco family protein	UIJ68476.1
	$\perp \perp$			Gmp reductase	UIJ69501.1
				Adenylyl-sulfate kinase	UIJ67789.1
				Ester cyclase	UIJ68800.1
				Glycogen phosphorylase	UIJ65773.1
				Glycogen synthase glga	UIJ69464.1
	11			Neutral protease nprb	UIJ65926.1
	T			Ump kinase	UIJ64775.1
	11			Nitrate reductase subunit beta	UIJ68393.1
				Arylamine n-acetyltransferase	UIJ68412.1
11	\top			Mazg-like family protein	UIJ65936.1
	11			Beta-ketoacyl-acp synthase ii	UIJ67515.1
	11			Maoc family dehydratase n-terminal domain-containing protein	UIJ65511.1
++	+			Udp-galactose-lipid carrier transferase	UIJ68109.1
++-				L-threonine 3-dehydrogenase	UIJ66965.1
	1			Potassium-transporting atpase subunit kdpa	UIJ67098.1
\blacksquare	++			Lipoyl synthase	UIJ65860.1
++-	++	\vdash		Septation regulator spovg	UIJ69497.1
+	++	+		Hypothetical protein lw858 15595	UIJ64423.1
+	++	\vdash		Cell division regulator gpsb	UIJ67914.1
+-	++	\vdash		Nitrite/sulfite reductase	UIJ67790.1
++-	++	\vdash		Immune inhibitor a	UIJ67656.1
++-	++	\vdash		Threonine synthase	UIJ68231.1
+	++	\vdash		Duf4352 domain-containing protein	UIJ66994.1
+-	++			L Dui+332 domain-containing protein	
<u> </u>				Caly family protein (pleamid)	111.160522 1
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1 1				Duf975 family protein	UIJ66530.1
\top				Duf975 family protein Duf3906 family protein	UIJ66530.1 UIJ67791.1
\Box				Duf975 family protein Duf3906 family protein Beta-lactamase family protein	UIJ66530.1 UIJ67791.1 UIJ68796.1
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				Duf975 family protein Duf3906 family protein Beta-lactamase family protein Fmnh2-dependent alkanesulfonate monooxygenase Dynamin family protein Duf6376 family protein Twin-arginine translocase tata/tate family subunit	UIJ66530.1 UIJ67791.1 UIJ68796.1 UIJ69025.1 UIJ67923.1 UIJ68212.1 UIJ68471.1
				Duf975 family protein Duf3906 family protein Beta-lactamase family protein Fmnh2-dependent alkanesulfonate monooxygenase Dynamin family protein Duf6376 family protein Twin-arginine translocase tata/tate family subunit U32 family peptidase	UIJ66530.1 UIJ67791.1 UIJ68796.1 UIJ69025.1 UIJ67923.1 UIJ68212.1 UIJ68471.1 UIJ65306.1
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				Duf975 family protein Duf3906 family protein Beta-lactamase family protein Fmnh2-dependent alkanesulfonate monooxygenase Dynamin family protein Duf6376 family protein Twin-arginine translocase tata/tate family subunit U32 family peptidase (d)cmp kinase Cytochrome c oxidase subunit i Anthranilate synthase component i	UIJ66530.1 UIJ67791.1 UIJ68796.1 UIJ69025.1 UIJ67923.1 UIJ68212.1 UIJ68471.1 UIJ65306.1 UIJ67855.1 UIJ69429.1 UIJ67618.1
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				Duf975 family protein Duf3906 family protein Beta-lactamase family protein Fmnh2-dependent alkanesulfonate monooxygenase Dynamin family protein Duf6376 family protein Duf6376 family protein Twin-arginine translocase tata/tate family subunit U32 family peptidase (d)cmp kinase Cytochrome c oxidase subunit i Anthranilate synthase component i Acetyltransferase Lema domain protein Duf3224 domain-containing protein Xre family transcriptional regulator Threonylcarbamoyl-amp synthase Ncs2 family permease Hypothetical protein Iw858 31670 (plasmid) Imidazolonepropionase Trna lysidine(34) synthetase tils	UIJ66530.1 UIJ67791.1 UIJ68796.1 UIJ69025.1 UIJ67923.1 UIJ68212.1 UIJ68471.1 UIJ65306.1 UIJ67855.1 UIJ69429.1 UIJ69455.1 UIJ69455.1 UIJ69455.1 UIJ68505.1 UIJ66509.1 UIJ66597.1 UIJ664615.1 UIJ66309.1
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