

Table S1. Plasmid pMCEX annotation at NCBI.

Locus	Length (pb)	Product	Protein id
<i>HNY42_RS15710</i>	144	hypothetical protein	WP_188005512.1
<i>HNY42_RS16180</i>	1698	hypothetical protein	WP_188005511.1
<i>HNY42_RS16175</i>	984	beta-ketoacyl-ACP synthase 3	WP_188005510.1
<i>HNY42_RS16170</i>	189	hypothetical protein	WP_188005509.1
<i>HNY42_RS16165</i>	804	SMI1/KNR4 family protein	WP_188005508.1
<i>HNY42_RS16160</i>	1035	hypothetical protein	WP_188005561.1
<i>HNY42_RS16155</i>	291	YolD-like family protein	WP_188005507.1
<i>HNY42_RS16150</i>	225	ribbon-helix-helix protein, CopG family	WP_188005506.1
<i>HNY42_RS16145</i>	270	type II toxin-antitoxin system RelE/ParE familytoxin	WP_188005505.1
<i>HNY42_RS16140</i>	720	HNH endonuclease	WP_188005504.1
<i>HNY42_RS16135</i>	612	hypothetical protein	WP_188005503.1
<i>HNY42_RS16130</i>	618	hypothetical protein	WP_188005502.1
<i>HNY42_RS16125</i>	4065	DNRLRE domain-containing protein	WP_188005501.1
<i>HNY42_RS16120</i>	273	hypothetical protein	WP_188005500.1
<i>HNY42_RS16115</i>	882	hypothetical protein	WP_188005499.1
<i>HNY42_RS16110</i>	1932	hypothetical protein	WP_188005498.1
<i>HNY42_RS16105</i>	1035	LD-carboxypeptidase	WP_188005497.1
<i>HNY42_RS16100</i>	1275	MFS transporter	WP_188005496.1
<i>HNY42_RS16095</i>	915	phosphotransferase	WP_188005495.1
<i>HNY42_RS16090</i>	1788	alanine--tRNA ligase	WP_188005494.1
<i>HNY42_RS16085</i>	642	deoxynucleoside kinase	WP_188005493.1
<i>HNY42_RS16080</i>	858	hypothetical protein	WP_188005492.1
<i>HNY42_RS16075</i>	774	hypothetical protein	WP_188005491.1
<i>HNY42_RS16070</i>	1227	hypothetical protein	WP_188005490.1
<i>HNY42_RS16065</i>	1200	ATP-grasp domain-containing protein	WP_188005489.1
<i>HNY42_RS16060</i>	1233	glycosyltransferase	WP_188005488.1
<i>HNY42_RS16055</i>	1071	asparaginase	WP_188005487.1
<i>HNY42_RS16050</i>	891	methyltransferase domain-containing protein	WP_188005486.1
<i>HNY42_RS16045</i>	1128	hypothetical protein	WP_188005485.1
<i>HNY42_RS16040</i>	960	NAD-dependent epimerase/dehydratase family protein	WP_188005484.1
<i>HNY42_RS16035</i>	1089	CDP-glucose 4,6-dehydratase	WP_188005483.1
<i>HNY42_RS16030</i>	801	NTP transferase domain-containing protein	WP_188005482.1
<i>HNY42_RS16025</i>	879	helix-turn-helix domain-containing protein	WP_188005481.1
<i>HNY42_RS16020</i>	477	hypothetical protein	WP_188005480.1
<i>HNY42_RS16015</i>	1935	AAA family ATPase	WP_188005479.1
<i>HNY42_RS16010</i>	1305	hypothetical protein	WP_188005478.1
<i>HNY42_RS16005</i>	798	DUF3800 domain-containing protein	WP_188005477.1
<i>HNY42_RS16000</i>	498	hypothetical protein	WP_188005476.1
<i>HNY42_RS15995</i>	651	hypothetical protein	WP_188005475.1
<i>HNY42_RS15990</i>	2502	hypothetical protein	WP_188005474.1
<i>HNY42_RS15985</i>	474	DNA mismatch endonuclease Vsr	WP_188005473.1
<i>HNY42_RS15980</i>	1269	DNA (cytosine-5-)-methyltransferase	WP_188005472.1
<i>HNY42_RS15975</i>	777	hypothetical protein	WP_188005471.1

<i>HNY42_RS15970</i>	231	hypothetical protein	WP_188005470.1
<i>HNY42_RS15965</i>	348	hypothetical protein	WP_188005560.1
<i>HNY42_RS15960</i>	171	hypothetical protein	WP_188005557.1
<i>HNY42_RS15955</i>	3354	hypothetical protein	WP_188005556.1
<i>HNY42_RS15950</i>	2574	helicase SNF2	WP_188005555.1
<i>HNY42_RS15945</i>	1215	hypothetical protein	WP_188005554.1
<i>HNY42_RS15940</i>	789	hypothetical protein	WP_188005553.1
<i>HNY42_RS15935</i>	777	AAA family ATPase	WP_188005552.1
<i>HNY42_RS15930</i>	690	ribbon-helix-helix protein, CopG family	WP_188005551.1
<i>HNY42_RS15925</i>	780	AAA family ATPase	WP_188005550.1
<i>HNY42_RS15920</i>	1077	hypothetical protein	WP_188005549.1
<i>HNY42_RS15915</i>	1437	hypothetical protein	WP_188005548.1
<i>HNY42_RS15910</i>	1476	hypothetical protein	WP_188005547.1
<i>HNY42_RS15905</i>	1155	hypothetical protein	WP_188005546.1
<i>HNY42_RS15900</i>	585	DUF4411 family protein	WP_188005545.1
<i>HNY42_RS15895</i>	507	helix-turn-helix domain-containing protein	WP_188005544.1
<i>HNY42_RS15890</i>	1017	tyrosine-type recombinase/integrase	WP_188005543.1
<i>HNY42_RS15885</i>	672	hypothetical protein	WP_188005542.1
<i>HNY42_RS15880</i>	981	hypothetical protein	WP_188005541.1
<i>HNY42_RS15875</i>	1182	hypothetical protein	WP_188005540.1
<i>HNY42_RS15870</i>	900	hypothetical protein	WP_188005539.1
<i>HNY42_RS15865</i>	489	helix-turn-helix domain-containing protein	WP_188005538.1
<i>HNY42_RS15860</i>	189	hypothetical protein	WP_188005537.1
<i>HNY42_RS15855</i>	225	hypothetical protein	WP_188005536.1
<i>HNY42_RS15850</i>	1092	hypothetical protein	WP_188005535.1
<i>HNY42_RS15845</i>	2370	type IV secretory system conjugative DNAtransfer family protein	WP_188005534.1
<i>HNY42_RS15840</i>	252	hypothetical protein	WP_119924055.1
<i>HNY42_RS15835</i>	429	hypothetical protein	WP_188005533.1
<i>HNY42_RS15830</i>	1311	hypothetical protein	WP_188005532.1
<i>HNY42_RS15825</i>	312	hypothetical protein	WP_188005531.1
<i>HNY42_RS15820</i>	636	hypothetical protein	WP_188005530.1
<i>HNY42_RS15815</i>	1944	type IV secretion system protein VirB4	WP_188005529.1
<i>HNY42_RS15810</i>	1065	lysozyme family protein	WP_188005559.1
<i>HNY42_RS15805</i>	558	hypothetical protein	WP_188005528.1
<i>HNY42_RS15800</i>	840	hypothetical protein	WP_188005527.1
<i>HNY42_RS15795</i>	147	hypothetical protein	WP_188005526.1
<i>HNY42_RS15790</i>	252	hypothetical protein	WP_188005525.1
<i>HNY42_RS15785</i>	1161	hypothetical protein	WP_188005524.1
<i>HNY42_RS15780</i>	456	hypothetical protein	WP_188005523.1
<i>HNY42_RS15775</i>	279	hypothetical protein	WP_188005522.1
<i>HNY42_RS15770</i>	1464	ImmA/IrrE family metallo-endopeptidase	WP_188005521.1
<i>HNY42_RS15765</i>	693	hypothetical protein	WP_188005520.1
<i>HNY42_RS15760</i>	162	hypothetical protein	WP_158537545.1
<i>HNY42_RS15755</i>	438	DUF5067 domain-containing protein	WP_188005558.1
<i>HNY42_RS15750</i>	225	DUF3006 family protein	WP_188005519.1
<i>HNY42_RS15745</i>	846	MBL fold metallo-hydrolase	WP_188005518.1

<i>HNY42_RS15740</i>	198	hypothetical protein	WP_188005517.1
<i>HNY42_RS15735</i>	861	S8 family serine peptidase	WP_131504374.1
<i>HNY42_RS15730</i>	915	hypothetical protein	WP_188005516.1
<i>HNY42_RS15725</i>	480	hypothetical protein	WP_188005515.1
<i>HNY42_RS15720</i>	387	GtrA family protein	WP_188005514.1
<i>HNY42_RS15715</i>	960	glycosyltransferase	WP_188005513.1