

**Table S2. List of the 100 genes of the rfbO157 region analyzed.** The locus tag of the reference sequence of *E. coli* O157:H7 strain Sakai (GenBank accession number NC\_002695), the gene product, the absolute position in the genome, and the gene length in bp were given.

<b>Locus tag</b>	<b>Product</b>	<b>Genome localization in strain Sakai (NC_002695)</b>	<b>Gene length in bp</b>
ECs2809	hypothetical protein	2751538	330
ECs2810	hypothetical protein	2752039	1059
ECs2811	DNA gyrase inhibitor	2753296	474
ECs2812	D-alanyl-D-alanine carboxypeptidase	2753888	1173
ECs2813	exonuclease I	2755263	1428
ECs2816	amino acid/amine transport protein	2758211	1365
ECs2817	LysR family transcriptional regulator	2759836	930
ECs2818	hypothetical protein	2760811	825
ECs2820	ATP phosphoribosyltransferase	2762257	900
ECs2821	histidinol dehydrogenase	2763162	1305
ECs2822	histidinol-phosphate aminotransferase	2764463	1071
ECs2823	imidazole glycerol-phosphate dehydratase/histidinol phosphatase	2765533	1068
ECs2824	imidazole glycerol phosphate synthase subunit HisH	2766600	591
ECs2825	1-(5-phosphoribosyl)-5-[(5- phosphoribosylamino)methylideneamino] imidazole-4-carboxamide isomerase	2767190	738
ECs2826	imidazole glycerol phosphate synthase subunit HisF	2767909	777
ECs2827	bifunctional phosphoribosyl-AMP cyclohydrolase/phosphoribosyl-ATP pyrophosphatase	2768679	612
ECs2829	UDP-glucose 6-dehydrogenase	2770510	1167
ECs2830	6-phosphogluconate dehydrogenase	2771925	1407
ECs2831	acetyltransferase	2773532	666
ECs2833	H repeat-containing protein	2774427	165
ECs2836	mannose-1-phosphate guanylyltransferase	2776834	1449
ECs2837	GDP-L-fucose pathway enzyme	2778264	510
ECs2838	fucose synthetase	2778776	966
ECs2839	GDP-D-mannose dehydratase	2779744	1119
ECs5479	hypothetical protein	2780370	231
ECs2840	glycosyl transferase family protein	2780882	1215
ECs2841	perosamine synthetase	2782121	1101
ECs2842	O antigen flippase	2783218	1386
ECs2843	glycosyl transferase family protein	2784596	747
ECs2844	O antigen polymerase	2785311	1185

ECs2845	glycosyl transferase family protein	2786492	783
ECs2846	UTP-glucose-1-phosphate uridylyltransferase	2787593	894
ECs2847	UDP-galactose 4-epimerase	2788729	996
ECs2848	colanic acid biosynthesis protein	2789882	1395
ECs2849	colanic acid biosynthesis glycosyl transferase	2791287	1221
ECs2850	pyruvyl transferase	2792504	1281
ECs2851	colanic acid exporter	2793964	1479
ECs2852	UDP-glucose lipid carrier transferase	2795444	1395
ECs2854	mannose-1-phosphate guanylyltransferase	2798456	1437
ECs2855	glycosyl transferase family protein	2799895	1224
ECs2856	GDP-mannose mannosyl hydrolase	2801115	483
ECs2857	GDP-fucose synthetase chain A	2801597	966
ECs2858	GDP-D-mannose dehydratase	2802565	1122
ECs2859	colanic acid biosynthesis acetyltransferase WcaF	2803715	549
ECs2860	glycosyl transferase family protein	2804279	747
ECs2862	glycosyl transferase family protein	2806228	1218
ECs2863	colanic acid biosynthesis acetyltransferase WcaB	2807442	489
ECs2864	glycosyl transferase family protein	2807933	840
ECs2865	tyrosine kinase	2808865	2163
ECs2866	tyrosine phosphatase	2811030	444
ECs2867	polysaccharide export protein	2811479	1140
ECs2868	transporter	2813277	1584
ECs2871	assembly protein	2815606	1854
ECs2872	deoxycytidine triphosphate deaminase	2817481	582
ECs2873	uridine kinase	2818154	642
ECs2878	chaperone	2823515	1353
ECs2879	chaperonin	2824880	1941
ECs2880	hypothetical protein	2826817	762
ECs2881	hypothetical protein	2827575	660
ECs2882	multidrug efflux system subunit MdtA	2829450	1248
ECs2883	multidrug efflux system subunit MdtB	2830697	3123
ECs2884	multidrug efflux system subunit MdtC	2833820	3078
ECs2885	multidrug efflux system protein MdtE	2836898	1416
ECs2886	signal transduction histidine-protein kinase BaeS	2838310	1404
ECs2887	BaeR family transcriptional regulator	2839710	723
ECs2888	hypothetical protein	2840623	333

ECs2889	hypothetical protein	2841103	1362
ECs2892	lipid kinase	2843517	900
ECs2893	split galactitol utilization operon repressor	2844498	780
ECs2894	galactitol-1-phosphate dehydrogenase	2845377	1041
ECs2895	PTS system galactitol-specific enzyme IIC	2846465	1356
ECs2897	PTS system galactitol-specific transporter subunit IIA	2848139	453
ECs2898	tagatose 6-phosphate kinase 1	2848601	1263
ECs2899	tagatose-bisphosphate aldolase	2849892	855
ECs2900	fructose-bisphosphate aldolase	2851045	1053
ECs2901	nucleoside permease	2852354	1278
ECs2902	hypothetical protein	2853628	1005
ECs2903	kinase	2854629	966
ECs2904	transcriptional regulator	2855568	747
ECs2905	hypothetical protein	2856366	828
ECs2906	phosphomethylpyrimidine kinase	2857249	801
ECs2907	hydroxyethylthiazole kinase	2858046	789
ECs2911	hypothetical protein	2861239	273
ECs2913	hypothetical protein	2862689	339
ECs2919	ATPase	2868789	1110
ECs2930	hypothetical protein	2887641	1137
ECs2934	hypothetical protein	2892203	474
ECs2935	hypothetical protein	2892718	471
ECs2936	two-component response-regulatory protein YehT	2893235	720
ECs2937	2-component sensor protein	2893951	1686
ECs3014	transcriptional regulator	2943822	648
ECs3015	transport system permease	2944617	732
ECs3016	ABC transporter ATP-binding protein	2945353	927
ECs3017	transport system permease	2946272	1158
ECs3018	transport system permease	2947436	918
ECs3019	beta-D-glucoside glucohydrolase	2948605	2298
ECs3020	D-lactate dehydrogenase	2951098	1716
ECs3021	D-alanyl-D-alanine endopeptidase	2952851	942
ECs3022	hypothetical protein	2953957	612
ECs3023	hypothetical protein	2954678	615

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