







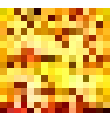
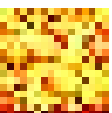


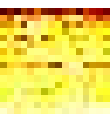









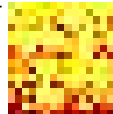
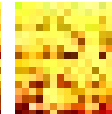

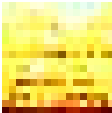
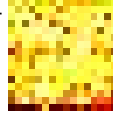
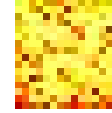
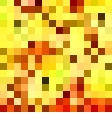
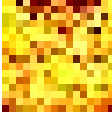
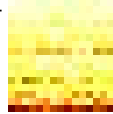
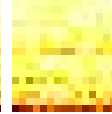


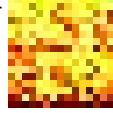
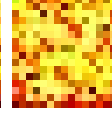

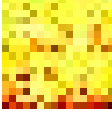
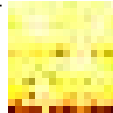



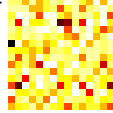
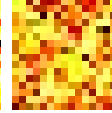


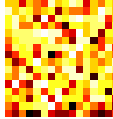


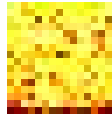
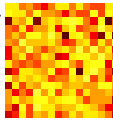
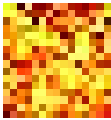

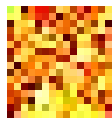

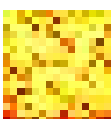


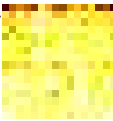
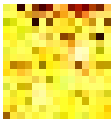






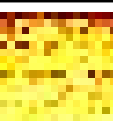
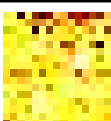


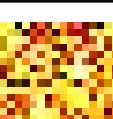
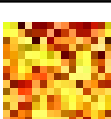
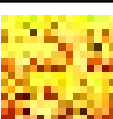
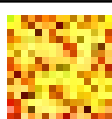



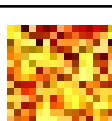










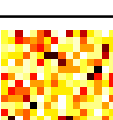
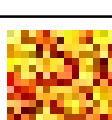
Annex 6: Potential donors for every RNA-free atypical region (*Escherichia coli*)



Host *Escherichia coli* signature

Position (kb)	Signature of original regions	Signature of 1 th potential donors	Potential donors	Distances from outliers (AU)	Position (kb)	Signature of original regions	Signature of 1 th potential donors	Potential donors	Distances from outliers (AU)
264			<i>Enterobacter aerogenes</i> 53338 nt	227	2036.750-2042.250			<i>Shigella boydii</i> 65724 nt	125
			<i>Enterobacter cloacae</i> 44626 nt	238				<i>Y enterocolitica</i> pYVe8081 68784 nt	129
150.750-155.750			<i>Salmonella enterica</i> pHCM2 107965 nt	242	2052.250-2058.250			<i>Y enterocolitica</i> pYVe22 70761 nt	130
								<i>Yersinia enterocolitica</i> 4761721 nt	131
258			<i>Enterobacter aerogenes</i> 5770353 nt	127	2067.250-2074.750			<i>Escherichia coli</i> pIR721 76758 nt	131
			<i>Y pseudotuberculosis</i> 4812537 nt	129				<i>Yersinia enterocolitica</i> pIR721 76758 nt	131
235.750-239.250			<i>Y enterocolitica</i> pYVe8081 68784 nt	131	2099.250-2110.750			<i>Yersinia pestis</i> pCD1 71656 nt	129
			<i>Yersinia pestis</i> pCD1 71656 nt	132				<i>Yersinia pestis</i> pL2 71601 nt	129
284			<i>Citrobacter rodentium</i> 5553284 nt	135	2185.750-2190.750			<i>S typhimurium</i> pSLT 95224 nt	153
			<i>Escherichia coli</i> pR721 76758 nt	143				<i>Salmonella enterica</i> pvir 50334 nt	172
303			<i>Y pseudotuberculosis</i> 4812537 nt	153	2386.250-2386.250			<i>S entomophila</i> pADAP 107744 nt	176
			<i>Shigella sonnei</i> 81822 nt	153				<i>Shigella sonnei</i> pCollb-P9 94799 nt	181
347			<i>Yersinia enterocolitica</i> 4761721 nt	157	2460.250-2463.750			<i>Morganella morganii</i> 20046 nt	189
			<i>Pantoea citrea</i> 19972 nt	258				<i>no credible donor</i>	
280.750-288.750			<i>no credible donor</i>		2464.750-2469.750			<i>Shigella sonnei</i> 81822 nt	93
								<i>Citrobacter rodentium</i> 5553284 nt	104
291.250-295.750			<i>Vibrio anguillarum</i> 39151 nt	120	2478.750-2492.750			<i>Legionella pneumophila</i> 235834 nt	122
			<i>Enterococcus faecium</i> 105144 nt	128				<i>Enterococcus faecium</i> 105144 nt	128
377			<i>Y pseudotuberculosis</i> 4812537 nt	151	2492.750-2492.750			<i>Yersinia enterocolitica</i> 4761721 nt	163
			<i>Ralstonia solanacearum</i> pJTPS1 6823 nt	166				<i>Yersinia enterocolitica</i> 4761721 nt	163
324			<i>Pseudomonas ADP</i> pADP-1 110513 nt	167	2492.750-2492.750			<i>Photobacterium luminescens</i> 5770353 nt	164
			<i>Burkholderia gladioli</i> 11784 nt	169				<i>Plesiomonas shigelloides</i> 44392 nt	174
310.250-320.250			<i>Pseudomonas stutzeri</i> 179397 nt	169	2492.750-2492.750			<i>Citrobacter rodentium</i> 5553284 nt	177
			<i>Microscilla sp</i> pSD15 103185 nt	146				<i>Yersinia enterocolitica</i> 4761721 nt	122
332			<i>Citrobacter rodentium</i> 5553284 nt	148	2492.750-2492.750			<i>Y pseudotuberculosis</i> 4812537 nt	124
			<i>Escherichia coli</i> pR721 76758 nt	149				<i>Citrobacter rodentium</i> 5553284 nt	127
326			<i>Salmonella typhi</i> pR27 38875 nt	154	2492.750-2492.750			<i>Photobacterium luminescens</i> 5770353 nt	131
			<i>Y enterocolitica</i> pYVe8081 68784 nt	157				<i>Xenorhabdus nematophilus</i> 136208 nt	137
333.250-333.750			<i>Xenorhabdus nematophilus</i> 136208 nt	92	2492.750-2492.750			<i>Shigella boydii</i> 65724 nt	151
			<i>Shigella boydii</i> 65724 nt	104				<i>Salmonella typhi</i> pR27 38875 nt	152
361			<i>Photobacterium luminescens</i> 5770353 nt	111	2492.750-2492.750			<i>Yersinia enterocolitica</i> 4761721 nt	152
			<i>Yersinia enterocolitica</i> 4761721 nt	113				<i>Bacteriophage</i> APSE-1 37119 nt	153
338.250-339.250			<i>Shigella flexneri</i> pvir 216642 nt	118	2492.750-2492.750			<i>Y enterocolitica</i> pYVe8081 68784 nt	154
			<i>Salmonella enterica</i> 4824399 nt	337				<i>no credible donor</i>	
417			<i>no credible donor</i>		2492.750-2492.750			<i>Shigella sonnei</i> 81822 nt	126
			<i>no credible donor</i>					<i>Bacteroides fragilis</i> 278172 nt	133
417			<i>no credible donor</i>		2492.750-2492.750			<i>Citrobacter rodentium</i> 5553284 nt	134
			<i>Bordetella avium</i> 26676 nt	310				<i>Paenibacillus popilliae</i> 13918 nt	141
417			<i>no credible donor</i>		2492.750-2492.750			<i>Y pseudotuberculosis</i> 4812537 nt	143
			<i>no credible donor</i>					<i>Yersinia enterocolitica</i> 4761721 nt	100
417			<i>no credible donor</i>		2492.750-2492.750			<i>Photobacterium luminescens</i> 5770353 nt	114
			<i>no credible donor</i>					<i>Y enterocolitica</i> pYVe8081 68784 nt	115
417			<i>no credible donor</i>		2492.750-2492.750			<i>Y enterocolitica</i> pYVe22 70761 nt	116
			<i>no credible donor</i>					<i>Y enterocolitica</i> pYVe22 70761 nt	116

390.750-392.250 241	 	<i>Salmonella enterica</i> pvir 50334 nt Bacteriophage Mu 37311 nt <i>S typhimurium</i> pSLT 95224 nt <i>Erwinia amylovora</i> pEA29 28683 nt <i>Erwinia herbicola</i> 55809 nt	220 229 230 232 233	2565.750-2566.250 457	 	<i>Serratia marcescens</i> 5199066 nt no credible donor	418
521.250-528.750 198	 	<i>S typhimurium</i> pSLT 95224 nt <i>S entomophila</i> pADAP 107744 nt <i>Salmonella enterica</i> pvir 50334 nt <i>Salmonella dublin</i> 38857 nt <i>Escherichia coli</i> pCloDF13 10182 nt	145 147 150 160 167	2753.750-2765.250 233	 	<i>Yersinia pestis</i> pCD1 71656 nt <i>Yersinia pestis</i> pl_2 71601 nt <i>Salmonella typhi</i> pR27 38875 nt <i>Y enterocolitica</i> pYVe22 70761 nt <i>Y enterocolitica</i> pYVe8081 68784 nt	110 110 112 113 115
559.250-561.250 214	 	<i>Yersinia ruckeri</i> 11491 nt <i>Yersinia pestis</i> 4731311 nt <i>Kluyvera cryocrescens</i> 10108 nt <i>Erwinia carotovora</i> 91889 nt <i>Salmonella enterica</i> 4824399 nt	192 197 200 202 204	2770.250-2774.250 271	 	<i>Plesiomonas shigelloides</i> 44392 nt <i>Yersinia enterocolitica</i> 4761721 nt <i>Shigella sonnei</i> 81822 nt <i>Citrobacter rodentium</i> 5553284 nt <i>Y pseudotuberculosis</i> 4812537 nt	141 141 146 147 147
566.750-572.250 317	 	<i>Citrobacter rodentium</i> 5553284 nt <i>Shigella sonnei</i> 81822 nt <i>Y pseudotuberculosis</i> 4812537 nt <i>Plesiomonas shigelloides</i> 44392 nt <i>Bacillus firmus</i> 39947 nt	109 112 127 138 142	2779.250-2786.250 365	 	<i>Shigella sonnei</i> 81822 nt <i>Vibrio fischeri</i> 96774 nt <i>Citrobacter rodentium</i> 5553284 nt <i>Proteus mirabilis</i> 4199909 nt <i>Shewanella hanedai</i> 7090 nt	116 126 127 127 132
575.750-585.750 287	 	<i>Citrobacter rodentium</i> 5553284 nt <i>Shigella sonnei</i> 81822 nt <i>Escherichia coli</i> pR721 76758 nt <i>Y pseudotuberculosis</i> 4812537 nt <i>Plesiomonas shigelloides</i> 44392 nt	107 110 111 119 129	2789.250-2790.250 392	 	<i>P chrysanthemi</i> 68378 nt no credible donor	273
620.750-622.250 293	 	<i>P chrysanthemi</i> 68378 nt <i>Serratia marcescens</i> 5199066 nt	229 236	2878.750-2883.750 241	 	<i>Salmonella typhi</i> pR27 38875 nt <i>Y enterocolitica</i> pYVe22 70761 nt <i>Y enterocolitica</i> pYVe8081 68784 nt <i>Yersinia pestis</i> pCD1 71656 nt <i>Yersinia pestis</i> pl_2 71601 nt	138 141 142 143 143
635.750-636.750 434	 	<i>Wolbachia pipientis</i> 7564 nt no credible donor	247	2899.750-2903.750 240	 	<i>Yersinia enterocolitica</i> 4761721 nt <i>Yersinia ruckeri</i> 11491 nt <i>Y pseudotuberculosis</i> 4812537 nt <i>Salmonella enterica</i> 4824399 nt <i>Photobacterium luminescens</i> 214210 nt	163 164 170 172 173
676.250-677.750 211	 	<i>Salmonella enterica</i> 4824399 nt <i>Shigella dysenteriae</i> 61982 nt <i>Salmonella enteritidis</i> 42949 nt <i>Citrobacter freundii</i> 58393 nt <i>Escherichia coli</i> O157-H7 5577072 nt	205 206 207 207 208	2983.250-2995.750 390	 	<i>Shigella sonnei</i> 81822 nt <i>Vibrio fischeri</i> 96774 nt <i>Proteus mirabilis</i> 4199909 nt <i>Staphylococcus carnosus</i> 53178 nt <i>Xenorhabdus luminescens</i> 7954 nt	115 115 124 127 128
728.750-738.250 189	 	<i>Salmonella enterica</i> pvir 50334 nt <i>S typhimurium</i> pSLT 95224 nt Bacteriophage P4 11854 nt Bacteriophage lambda 49349 nt <i>Escherichia coli</i> pO157 94136 nt	133 135 142 144 145	3184.250-3190.750 245	 	<i>Y pseudotuberculosis</i> 4812537 nt <i>Yersinia enterocolitica</i> 4761721 nt <i>Photobacterium luminescens</i> 214210 nt <i>Y enterocolitica</i> pYVe8081 68784 nt <i>Y enterocolitica</i> pYVe22 70761 nt	102 111 113 122 124
872.750-874.750 309	 	<i>Xenorhabdus nematophilus</i> 136208 nt <i>Yersinia enterocolitica</i> 4761721 nt <i>Photobacterium luminescens</i> 214210 nt	221 230 234	3262.250-3267.750 341	 	<i>A actinomycetemcomitans</i> 283385 nt <i>Coxiella burnetii</i> 77823 nt <i>Coxiella burnetii</i> pQpRS 37943 nt <i>Coxiella burnetii</i> pQpDV 39907 nt <i>Citrobacter rodentium</i> 5553284 nt	133 144 145 146 146
976.250-977.750 348	 	<i>Klebsiella aerogenes</i> 32774 nt no credible donor	296	3286.750-3287.250 379	 	<i>Erwinia carotovora</i> 91889 nt no credible donor	368

998.750-999.250 325	 	<i>Yersinia ruckeri</i> 11491 nt no credible donor	299	3359.750-3361.250 275	 	<i>Shigella boydii</i> 65724 nt <i>Salmonella typhi</i> pR27 38875 nt <i>Yersinia pestis</i> pCD1 71656 nt <i>Yersinia pestis</i> pl_2 71601 nt <i>Escherichia coli</i> pR721 76758 nt	202 207 214 214 216
1065.250-1065.750 339	 	<i>Escherichia coli</i> MG1655 4716202 nt no credible donor	339	3447.250-3448.750 254	 	<i>Vibrio proteolyticus</i> 13955 nt <i>Salmonella enterica</i> pHCM2 107965 nt	220 237
1089.250-1095.250 198	 	<i>Yersinia enterocolitica</i> 4761721 nt <i>Shigella boydii</i> 65724 nt <i>Xenorhabdus nematophilus</i> 136208 nt <i>Y enterocolitica</i> pYVe22 70761 nt <i>Photorhabdus luminescens</i> 5770353 nt	114 114 124 125 127	3468.750-3470.250 323	 	<i>Pelobacter acidigallici</i> 4213 nt no credible donor	278
1101.750-1104.750 308	 	<i>Citrobacter rodentium</i> 5553284 nt <i>Proteus vulgaris</i> 12696 nt <i>Escherichia coli</i> pR721 76758 nt <i>Y pseudotuberculosis</i> 4812537 nt <i>Shigella sonnei</i> 81822 nt	151 160 164 169 169	3578.250-3582.250 342	 	<i>Shigella sonnei</i> 81822 nt <i>Citrobacter rodentium</i> 5553284 nt <i>Proteus mirabilis</i> 4199909 nt <i>Y pseudotuberculosis</i> 4812537 nt <i>Bombyx mori</i> 513541 nt	123 129 145 146 155
1194.750-1201.250 298	 	<i>Citrobacter rodentium</i> 5553284 nt <i>Escherichia coli</i> pR721 76758 nt <i>Salmonella typhi</i> pR27 38875 nt <i>Shigella sonnei</i> 81822 nt <i>Y enterocolitica</i> pYVe8081 68784 nt	119 127 134 135 137	3614.250-3620.750 263	 	<i>Pantoea agglomerans</i> 33912 nt <i>P chrysanthemi</i> 68378 nt <i>Morganella morganii</i> 20046 nt <i>Erwinia chrysanthemi</i> 202829 nt <i>Klebsiella aerogenes</i> 32774 nt	178 189 196 198 203
1208.250-1221.750 291	 	<i>Citrobacter rodentium</i> 5553284 nt <i>Shigella sonnei</i> 81822 nt <i>Y pseudotuberculosis</i> 4812537 nt <i>Yersinia enterocolitica</i> 4761721 nt <i>Plesiomonas shigelloides</i> 44392 nt	92 97 97 120 120	3628.750-3633.250 391	 	<i>Proteus mirabilis</i> 4199909 nt <i>Shigella sonnei</i> 81822 nt <i>Citrobacter rodentium</i> 5553284 nt <i>Shewanella hanedai</i> 7090 nt <i>Vibrio fischeri</i> 96774 nt	149 157 165 168 168
1227.250-1228.250 220	 	<i>Escherichia coli</i> MG1655 4716202 nt <i>E coli</i> O157-H7 EDL9333 5577072 nt <i>E coli</i> O157-H7 0509952 5577057 nt <i>Salmonella</i> Typhi 4889287 nt <i>Salmonella dublin</i> 38857 nt	220 222 222 232 233	3648.750-3655.750 265	 	<i>Y pseudotuberculosis</i> 4812537 nt <i>Yersinia enterocolitica</i> 4761721 nt <i>Citrobacter rodentium</i> 5553284 nt <i>Photorhabdus luminescens</i> 5770353 nt <i>Shigella sonnei</i> 81822 nt	100 103 114 115 119
1411.750-1418.250 192	 	<i>Salmonella enterica</i> pHCM1 221004 nt <i>Salmonella typhi</i> pHCM1 221888 nt <i>Shigella boydii</i> 65724 nt <i>Bacteriophage H-19B</i> 17387 nt <i>Escherichia coli</i> pB1171 69899 nt	120 120 122 122 125	3663.250-3664.750 186	 	<i>E coli</i> O157-H7 EDL9333 5577072 nt <i>E coli</i> O157-H7 0509952 5577057 nt <i>Escherichia coli</i> MG1655 4716202 nt <i>Salmonella dublin</i> 38857 nt <i>Citrobacter freundii</i> 58393 nt	185 185 186 194 196
1421.750-1424.250 321	 	<i>Citrobacter rodentium</i> 5553284 nt <i>Y pseudotuberculosis</i> 4812537 nt <i>Y enterocolitica</i> pYVe8081 68784 nt <i>Shigella sonnei</i> 81822 nt <i>Y enterocolitica</i> pYVe22 70761 nt	166 171 177 180 181	3759.250-3768.250 192	 	<i>Escherichia coli</i> pO157 94136 nt <i>Shigella flexneri</i> 4673098 nt <i>Bacteriophage P4</i> 11854 nt <i>Bacteriophage lambda</i> 49349 nt <i>Erwinia amylovora</i> pEA29 28683 nt	142 146 148 149 153
1430.750-1434.250 287	 	<i>Escherichia coli</i> pR721 76758 nt <i>Xenorhabdus nematophilus</i> 136208 nt <i>Citrobacter rodentium</i> 5553284 nt <i>Bacteriophage Ij1</i> 8641 nt <i>Shigella sonnei</i> 81822 nt	132 157 157 158 159	3792.250-3804.750 363	 	<i>Shigella sonnei</i> 81822 nt <i>Proteus mirabilis</i> 4199909 nt <i>A actinomycetemcomitans</i> 283385 nt <i>Citrobacter rodentium</i> 5553284 nt <i>S aureus</i> pJ3356 8215 nt	118 120 130 138 140
1474.250-1475.750 262	 	<i>Xenorhabdus nematophilus</i> 136208 nt <i>Photorhabdus luminescens</i> 5770353 nt <i>Yersinia pestis</i> pCD1 71656 nt <i>Y enterocolitica</i> pYVe8081 68784 nt <i>Yersinia pestis</i> pl_2 71601 nt	204 204 207 207 208	3835.250-3835.750 335	 	<i>Bacteriophage HK620</i> 38918 nt no credible donor	318

1525.750-1531.250			<i>Shigella flexneri</i> pvir 216642 nt <i>Shigella flexneri</i> pCP301 224888 nt <i>Shigella boydii</i> 65724 nt <i>Escherichia coli</i> pB171 69899 nt <i>Escherichia coli</i> pO157 94136 nt	117 118 121 121 132	4041.750-4042.250			<i>Lactobacillus plantarum</i> 102499 nt no credible donor	301
1541.750-1544.750			<i>Proteus mirabilis</i> 4199909 nt <i>Shewanella hanedai</i> 7090 nt <i>Shigella sonnei</i> 81822 nt <i>Manduca sexta</i> 52825 nt <i>Vibrio fischeri</i> 96774 nt	168 191 192 193 193	4059.250-4061.250			<i>Bacteriophage APSE-1</i> 37119 nt <i>Yersinia enterocolitica</i> 4761721 nt <i>Photorhabdus luminescens</i> 5770353 nt <i>Y pseudotuberculosis</i> 4812537 nt <i>Yersinia ruckeri</i> 11491 nt	193 193 195 199 201
1574.750-1588.750			<i>Yersinia enterocolitica</i> 4761721 nt <i>Y enterocolitica</i> pYVe22 70761 nt <i>Photorhabdus luminescens</i> 5770353 nt <i>Y enterocolitica</i> pYVe8081 68784 nt <i>Yersinia pestis</i> pCD1 71656 nt	100 103 103 104 108	4178.250-4185.750			<i>S enterica</i> pHCM2 107965 nt <i>Salmonella typhi</i> pHCM2 108384 nt <i>Yersinia pestis</i> pMT1 102516 nt <i>Vibrio proteolyticus</i> 13955 nt <i>Salmonella enteritidis</i> 42949 nt	207 207 214 226 228
1593.750-1594.750			<i>Erwinia pyrifoliae</i> 9435 nt no credible donor	241	4218.250-4219.250			<i>Shigella sonnei</i> 81822 nt <i>Citrobacter rodentium</i> 5553284 nt	230 238
1629.250-1641.250			<i>Escherichia coli</i> pR721 76758 nt <i>Salmonella typhi</i> pR27 38875 nt <i>Xenorhabdus nematophilus</i> 136208 nt <i>Shigella boydii</i> 65724 nt <i>Bacteriophage If1</i> 8641 nt	90 112 116 117 118	4312.750-4321.250			<i>Klebsiella aerogenes</i> 32774 nt <i>P chrysanthemii</i> 68378 nt <i>Serratia marcescens</i> 5199066 nt <i>Xanthomonas campestris</i> 191612 nt <i>Xanthomonas oryzae</i> 183753 nt	126 147 164 177 178
1644.250-1646.750			<i>Escherichia coli</i> pR721 76758 nt <i>Y enterocolitica</i> pYVe8081 68784 nt <i>Salmonella typhi</i> pR27 38875 nt <i>Y enterocolitica</i> pYVe22 70761 nt <i>Bacillus subtilis</i> 4275077 nt	147 164 164 169 169	4356.250-4358.250			<i>Photorhabdus luminescens</i> 5770353 nt <i>Y pseudotuberculosis</i> 4812537 nt <i>Yersinia enterocolitica</i> 4761721 nt <i>Xenorhabdus nematophilus</i> 136208 nt <i>Yersinia ruckeri</i> 11491 nt	188 192 192 199 201
1770.250-1770.750			<i>Bacteroides fragilis</i> 278172 nt no credible donor	296	4471.250-4476.250			<i>Yersinia enterocolitica</i> 4761721 nt <i>Citrobacter rodentium</i> 5553284 nt <i>Y pseudotuberculosis</i> 4812537 nt <i>Salmonella typhi</i> pR27 38875 nt <i>Y enterocolitica</i> pYVe8081 68784 nt	149 154 155 156 159
1800.250-1803.750			<i>Y pseudotuberculosis</i> 4812537 nt <i>Escherichia coli</i> pR721 76758 nt <i>Plesiomonas shigelloides</i> 44392 nt <i>Citrobacter rodentium</i> 5553284 nt <i>Yersinia enterocolitica</i> 4761721 nt	160 161 166 166 169	4498.750-4505.250			<i>Escherichia coli</i> pR721 76758 nt <i>Y enterocolitica</i> pYVe8081 68784 nt <i>Y enterocolitica</i> pYVe22 70761 nt <i>Yersinia pestis</i> pl_2 71601 nt <i>Shigella flexneri</i> pvir 216642 nt	109 116 116 121 121
1853.250-1854.750			<i>Salmonella enteritidis</i> 42949 nt <i>Salmonella enterica</i> 4824399 nt <i>E coli</i> O157-H7 EDL9333 5577072 nt <i>Citrobacter freundii</i> 58393 nt <i>Erwinia carotovora</i> 91889 nt	182 189 196 197 198	4510.750-4511.750			<i>Pseudomonas syringae</i> 332129 nt no credible donor	261
1868.750-1870.750			<i>Yersinia enterocolitica</i> 4761721 nt <i>Shigella boydii</i> 65724 nt <i>Y enterocolitica</i> pYVe22 70761 nt <i>Plesiomonas shigelloides</i> 44392 nt <i>Yersinia pestis</i> pCD1 71656 nt	164 172 178 180 181	4532.750-4541.750			<i>Y pseudotuberculosis</i> 4812537 nt <i>Yersinia enterocolitica</i> 4761721 nt <i>Photorhabdus luminescens</i> 5770353 nt <i>Citrobacter rodentium</i> 5553284 nt <i>Xenorhabdus nematophilus</i> 136208 nt	104 113 116 117 118
2033.250-2035.750			<i>Yersinia enterocolitica</i> 4761721 nt <i>Y enterocolitica</i> pYVe22 70761 nt <i>Y enterocolitica</i> pYVe8081 68784 nt <i>Yersinia pestis</i> pCD1 71656 nt <i>Yersinia pestis</i> pl_2 71601 nt	146 157 159 160 160	4573.750-4577.250			<i>Y pseudotuberculosis</i> 4812537 nt <i>Citrobacter rodentium</i> 5553284 nt <i>Yersinia enterocolitica</i> 4761721 nt <i>Shigella sonnei</i> 81822 nt <i>Xenorhabdus nematophilus</i> 136208 nt	120 131 133 134 135