

**Table S4** Coordinates of top 1.3% of empirical genome-wide distributions of *D* and *Pi/K*

Alignment Coordinates of Window		Strain RP62A Coordinates of Window		Observed	Observed	
From	To	From	To	<i>D</i>	<i>Pi/K</i>	Comment
175401	175500	2145913	2145814	2.184	0.131	
494001	494100	1559829	1559730	2.545	0.141	
494101	494200	1559729	1559038	2.671	0.367	
494201	494300	1559037	1558924	2.761	0.394	
494301	494400	1558923	1558822	2.718	0.322	
494401	494500	1558821	1558712	2.623	0.264	
494501	494600	1558711	1558610	2.709	0.376	
494601	494700	1558609	1558510	2.724	0.262	
494701	494800	1558509	1558410	2.153	0.209	
874501	874600	1065218	1065119	2.478	0.131	
876501	876600	1063217	1062573	2.222	0.124	
879901	880000	1058236	1058137	2.021	0.128	
883101	883200	1055014	1054915	2.222	0.126	
883401	883500	1054714	1054615	1.855	0.118	
898301	898400	1002498	1002397	1.661	0.110	
1045901	1046000	829088	828989	1.885	0.145	
1487801	1487900	269996	269897	2.335	0.118	
1488701	1488800	269096	268997	2.021	0.149	
1490801	1490900	260030	259931	2.335	0.135	
1491801	1491900	259030	258931	2.037	0.136	
1497501	1497600	245638	245539	2.459	0.133	
1499501	1499600	243096	242997	2.122	0.123	
1501701	1501800	240579	240480	2.478	0.151	
1515001	1515100	214701	214602	1.743	0.131	
1516701	1516800	212877	212778	1.890	0.227	
1524701	1524800	194600	194501	1.773	0.111	
1537001	1537100	181649	181550	1.661	0.198	
1573901	1574000	2399033	2399132	2.735	0.374	arcD-like gene, peak window 1
1574001	1574100	2399133	2399232	1.982	0.168	
1574501	1574600	2399633	2399732	2.551	0.203	arcD-like gene, peak window 2
1574701	1574800	2399833	2399932	1.674	0.224	arcD-like gene, peak window 3