

Supplementary Table 3. Nucleotide polymorphisms of the *recA* fragments in comparison with Ref Strains. Variants and their corresponding strains are showed.

		Nucleotide position <i>recA</i> fragment																																																																															
		330	336	339	351	354	363	366	369	378	384	387	393	396	402	405	408	411	414	420	423	427	432	441	447	448	456	462	468	474	480	483	486	498	501	507	561	576	600	603	606	630	633	636	645	651	660	663	666	672	675	678	681	684	705	708	711	714	717	720	732	735	738	741	747	753	759	762	768	777	780	783	804	814	815	816	822				
<i>Escherichia coli</i>	Ref Strain GCF_000005845.2																																																																																
	Strain	C	C	C	C	C	C	C	C	C	A	A	C	C	C	G	T	T	C	A	C	T	G	T	G	A	C	G	G	C	C	C	C	C	T	A	C	C	T	T	G	T	C	T	G	A	C	T	T	C	C	C	T	T	C	A	C	G	G	T	C	G	A	G	A	T	G	T	T	A	C	T	T	A	C	A					
EC recA-V1	S1, S4, S5, S6, S7, S8, S10.2, S16, S18, S33, S35, S36, S37, S38, S41, S42, S45, S47, S49, S66.1, S69, S76, S77, S78, S80, S84, S86, S87, S89, S93, S99, S109, S118, S125, S130, S132, S136	C	C	C	C	C	C	C	C	C	C	A	C	C	C	G	T	T	C	A	C	T	G	T	G	A	C	G	G	C	C	C	C	C	T	A	C	C	T	T	G	T	C	T	G	A	C	T	T	C	C	C	T	T	C	A	C	G	G	T	C	G	A	G	A	T	G	T	T	A	C	T	T	A	C	A					
	S2, S3, S135	C	C	C	C	C	C	C	C	A	A	C	C	C	G	T	T	C	A	C	T	G	T	G	A	C	G	G	C	C	C	C	C	T	A	C	C	T	T	G	T	C	T	G	A	C	T	T	C	C	C	T	T	C	A	C	G	G	T	T	G	A	G	A	T	G	T	T	A	C	T	T	A	T	A						
EC recA-V3	S19, S20, S25, S27, S34, S46, S111	T	C	C	C	C	T	C	C	A	A	C	C	C	A	T	T	C	A	C	T	G	T	G	A	C	G	G	C	C	C	C	C	T	A	C	C	T	T	G	T	T	T	G	A	C	T	T	C	C	C	T	T	C	A	C	G	G	T	C	G	A	G	A	T	G	T	T	A	C	T	T	A	C	G						
EC recA-V4	S71, S74, S75	C	T	C	C	C	T	C	C	A	A	C	C	T	C	A	T	T	C	A	C	T	G	T	G	A	C	G	G	C	C	C	C	C	T	A	C	C	T	T	G	T	C	T	G	A	C	T	T	C	C	T	T	C	A	C	G	G	T	C	G	A	G	A	T	G	T	T	A	C	T	T	A	C	G						
EC recA-V5	S21, S85, S97	C	T	T	C	C	C	C	C	A	C	C	C	C	G	T	T	C	A	C	T	G	T	G	A	C	G	G	C	C	C	C	C	T	A	C	C	T	T	G	T	C	T	G	A	C	T	T	C	C	C	T	T	C	A	C	G	G	T	C	G	A	G	A	T	A	T	T	A	T	T	A	C	A							
EC recA-V6	S9, S12, S26, S50, S51, S52, S53.2, S54.1, S58, S60, S68, S79, S105, S107, S115, S129	C	C	C	T	C	C	C	C	C	A	C	C	C	G	T	T	C	A	C	T	G	T	G	A	C	G	G	C	C	C	C	C	C	T	A	C	C	T	T	G	T	C	T	G	A	C	T	T	C	C	C	T	T	C	A	C	G	G	T	C	G	A	G	A	T	G	T	T	A	C	T	T	A	C	A					
EC recA-V7	S29, S44.1, S48, S63, S64, S67.1, S88, S92, S101, S123, S127, S128	C	C	T	C	C	C	C	C	C	G	T	T	C	A	C	T	G	T	G	A	C	G	G	C	C	C	C	C	C	C	C	C	T	A	C	C	T	T	G	T	C	T	G	A	C	T	T	C	C	C	T	T	C	A	C	G	G	T	C	G	A	G	A	T	A	T	T	A	T	T	A	C	A							
EC recA-V8	S23, S31, S72, S100, S133, S134	C	C	C	C	T	C	C	A	A	C	C	C	A	T	T	C	A	C	T	G	T	G	A	C	G	G	C	C	C	C	C	T	A	C	C	T	T	G	T	C	T	G	A	C	T	T	C	C	C	T	T	C	A	C	G	G	T	C	G	A	G	A	T	G	T	T	A	C	T	T	A	C	G							
EC recA-V9	S15, S17, S24, S32, S39, S55, S56, S57, S59, S62, S70, S73, S94, S95, S104, S110, S120, S121, S124, S131	C	C	C	C	C	T	C	A	A	C	C	C	G	T	T	C	A	C	T	G	T	G	A	C	G	G	C	C	C	C	C	T	A	C	C	T	T	G	T	C	T	G	A	C	T	T	C	C	C	T	T	C	A	C	G	G	T	T	G	A	G	A	T	G	T	T	A	C	T	T	A	T	A							
EC recA-V10	S91	C	C	C	C	C	T	C	A	A	C	T	C	A	T	T	C	A	C	T	G	T	G	A	C	G	G	C	T	C	C	C	T	A	C	C	T	T	G	T	T	T	G	A	C	T	T	C	C	T	T	C	A	C	G	G	T	C	G	A	G	A	T	G	T	T	A	C	T	T	A	C	G								
EC recA-V11	S13, S14, S28, S61.1, S102, S117, S119, S122, S126	C	C	C	C	C	T	C	A	A	C	C	C	A	T	T	T	A	C	T	G	T	G	A	C	G	G	C	T	C	C	C	C	T	A	C	C	T	T	G	T	C	T	G	A	C	T	T	C	C	C	T	T	C	A	C	G	G	T	C	G	A	G	A	T	G	T	T	A	C	T	T	A	C	G						
EC recA-V12	S22	C	C	C	C	T	C	C	A	A	C	C	C	G	T	T	C	A	C	T	G	T	G	A	C	G	G	C	C	C	C	C	T	A	C	C	T	T	G	T	C	T	G	A	C	T	T	C	C	C	T	T	C	A	C	G	G	T	C	G	A	G	A	T	G	T	T	A	C	T	T	A	C	G							
EC recA-V13	S116	C	C	C	C	T	C	C	A	A	C	C	C	G	T	T	C	A	C	T	G	T	G	A	C	G	G	C	C	C	C	C	T	A	C	C	T	T	G	T	C	T	G	A	C	T	T	C	C	C	T	T	C	A	C	G	G	T	C	G	A	G	A	T	G	T	T	A	C	T	T	A	C	A							
EC recA-V14	S11	C	C	C	C	C	T	C	A	A	C	C	C	G	T	T	T	A	C	T	G	T	G	A	C	G	G	C	C	C	C	C	T	A	C	C	T	T	G	T	C	T	G	A	C	T	T	C	C	C	T	T	C	A	C	G	G	T	T	G	A	G	A	T	T	T	A	C	T	T	A	T	A								
EC recA-V15	S30	C	C	C	C	C	T	C	A	A	C	C	C	G	T	T	T	A	C	T	G	T	G	A	C	G	G	C	C	C	C	C	T	A	C	C	T	T	G	T	C	T	G	A	C	T	T	C	C	C	T	T	C	A	C	G	G	T	C	G	A	G	A	T	G	T	T	A	C	T	T	A	T	A							
EC recA-V16	S106	C	C	C	C	T	C	A	A	C	C	C	G	T	T	C	A	C	T	G	T	G	A	C	G	G	C	C	C	C	C	T	A	T	C	T	T	A	T	C	T	G	A	C	T	T	C	C	C	T	T	C	A	C	G	G	T	C	G	A	G	A	T	G	T	T	A	C	T	T	A	C	A								
EC recA-V17	S81, S82, S83, S90	C	C	C	C	T	C	C	A	A	C	C	C	A	T	T	C	A	C	T	G	T	G	A	C	G	G	C	C	C	C	C	T	A	C	C	T	T	G	T	C	T	G	A	C	T	T	C	C	C	T	T	C	A	C	G	G	T	C	G	A	G	A	T	G	T	T	A	C	T	T	A	C	G							
		330	336	339	351	354	363	366	369	378	384	387	393	396	402	405	408	411	414	420	423	427	432	441	447	448	456	462	468	474	480	483	486	498	501	507	561	576	600	603	606	630	633	636	645	651	660	663	666	672	675	678	681	684	705	708	711	714	717	720	732	735	738	741	747	753	759	762	768	777	780	783	804	814	815	816	822				
<i>Klebsiella pneumoniae</i>	Ref Strain GCF_002930035.1																																																																																
	Strain	C	C	C	T	T	C	C	C	G	G	C	C	G	G	C	C	C	G	T	T	G	C	C	G	T	G	G	C	C	C	C	C	C	T	G	C	T	T	C	G	T	C	T	G	G	C	T	G	G	C	T	C	C	C	C	T	C	C	C	C	A	G	A	G	C	G	T	C	A	C	C	T	A	C	G					
KP recA-V1	S10.1, S53.1, S54.2, S61.2, S67.2	C	C	C	T	T	C	C	C	G	G	C	C	G	G	C	T	T	G	C	T	G	C	C	G	T	G	G	C	C	T	C	C	C	T	G	C	T	T	C	G	T	C	T	G	G	C	T	G	G	C	T	C	C	C	C	T	C	C	C	C	C	A	G	A	G	C	G	T	C	A	C	C	T	A	C	G				
KP recA-V2	S112, S113, S114	C	C	C	T	C	C	C	G	G	C	C	G	C	T	T	G	T	G	C	C	G	T	G	C	C	C	C	C	C	C	C	T	G	C	T	T	C	G	T	C	T	G	G	C	T	G	G	C	T	C	C	C	C	C	C	C	C	A	G	A	G	C	G	T	C	A	C	C	T	A	C	G								
KP recA-V3	S96, S103	C	C	C	T	C	C	G	G	C	G	C	G	C	T	G	T	T	G	C	G	C	G	T	G	C	C	C	C	C	C	C	T	G	C	T	T	C	G	T	C	T	G	G	C	T	G	G	C	T	C	C	C	C	C	C	C	A	G	A	G	C	G	T	C	A	T	C	T	A	C	G									
KP recA-V4	S98	C	C	C	T	C	C	C	G	C	G	C	C	G	C	T	C	G	T	G	C	C	G	T	G	C	C	C	C	C	C	C	T	A	C	C	T	T	C	G	T	C	T	G	C	T	G	G	C	T	C	C	C	C	T	C	C	C	C	A	G	A	G	C	G	T	C	A	C	C	T	A	C	G							
KP recA-V5	S40, S44.2	C	C	C	T	T	C	C	G	G	C	C	G	G	C	C	G	T	G	C	G	C	C	G	T	G	C	C	C	C	C	C	T	G	C	T	T	C	G	T	C	T	G	G	C	T	G	G	C	T	C	C	C	C	T	C	C	C	C	A	G	A	G	C	G	T	C	A	C	C	T	A	C	G							
KP recA-V6	S66.2	G	C	C	T	T	C	C	T	G	A	C	C	G	G	C	C	C	G	C	T	G	C	G	G	C	G	G	C	C	C	C	T	T	C	G	C	C	C	A	A	C	C	G	G	C	C	G	G	C	C	T	C	C	C	C	T	C	C	C	A	G	A	A	C	G	C	T	A	C	C	T	T	C	G						
		330	336	339	351	354	363	366	369	378	384	387	393	396	402	405	408	411	414	420	423	427	432	441	448	449	456	462	468	474	480	483	486	498	501	507	561	576	600	603	606	630	633	636	645	651	660	663	666	672	675	678	681	684	705	708	711	714	717	720	732	735	738	741	747	753	759	762	768	777	780	783	804	814	815	816	823				
<i>Enterobacter hormaechei</i>	Ref Strain GCF_019048625.1																																																																																
	Strain	T	C	C	C	A	C	C	C	C	A	T	C	G	G	C	A	T	G	C	G	A	C	T	G	C</																																																							