

	- - - - -	MA I DENK	Q AL AALGQ	I EKQF GKGS I	MRL GEDRSM-	Escherichia coli
	- - - - -	MDENK	KRAL SAALSQ	I EKQF GKGS V	MRM GDRYI E -	Xanthomonas campestris
- - - - -	MSQNS L	RL YEDKSVDK	SKALEA ALSQ	I ERS F GKGS I	MKL GSNEV I	Rhizobium phaseoli
- - - - -	MSKLA EK	LKA VAAA AVAS	I EKQF GKGS V	MTL GGAE REQ	Myxococcus xanthus	
- - - - -	MA I DEDK	QKA ISLAI KQ	I DV F GKGA L	VRL GDKVQE -	Helicobacter pylori	
- - - - -	MAI N TDTSGK	QKA L TMV LNQ	I ERS F GKGA I	MRL GDA TRM -	Anabaena variabilis	
- - - - -	MAGTDR	EKA L DAAL AQ	I ERQF GKGA V	MRM GDRTNE -	Steptomyces lividans	
- - - - -	MSDR	QA AL DMALK Q	I EKQF GKGS I	MKL GEKT DT -	Bacillus subtilis	
- - - - -	MAN I DKDK	LKA I EMAMGQ	I EKQF GKGS V	MKL GEQGAP -	Clostridium perfringens	
MSKLKEKREK	AVVG I ERASK	EEA I EL ARVQ	I EKA F GKGS L	I KM GES PVGQ	Borrelia burgdorferi	
- - - - -	MSVPDR	KRA LEAA I AV	I EKQF GAGS I	MSL GK HSSAH	Chlamydia trachomatis	
- - - - -	MASSEK	LKA L QAAMD K	I EKS F GKGS I	MKM G E - EVVE	Bacteroides fragilis	
- - - - -	MAEE	KI PTVQD EKK	I QAL RMATEK	MNM GANTYE -	Porphyromonas gingivalis	
- - - - -	- - - MPEEKQK	KSY L EKALK R	I EEN F GKGS I	MI LG D ETQVQ	Thermotoga maritima	
- - - - -	- - - MSK DATKE	ISAP TDAKER	I SKA I ETAMS Q	I EKA F GKGS I	MKL GAESKL -	Deinococcus radiodurans
- - - - -	- - - M	ARVSEN LSEK	I MKALEY AL SS	I EKR F GKCA V	MPL KAYETV -	Aquifex pyrophilus

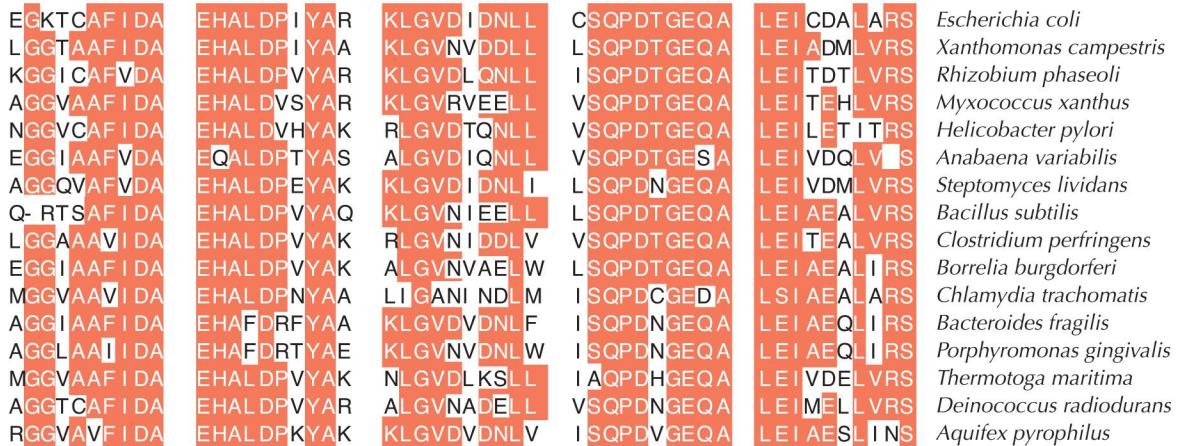
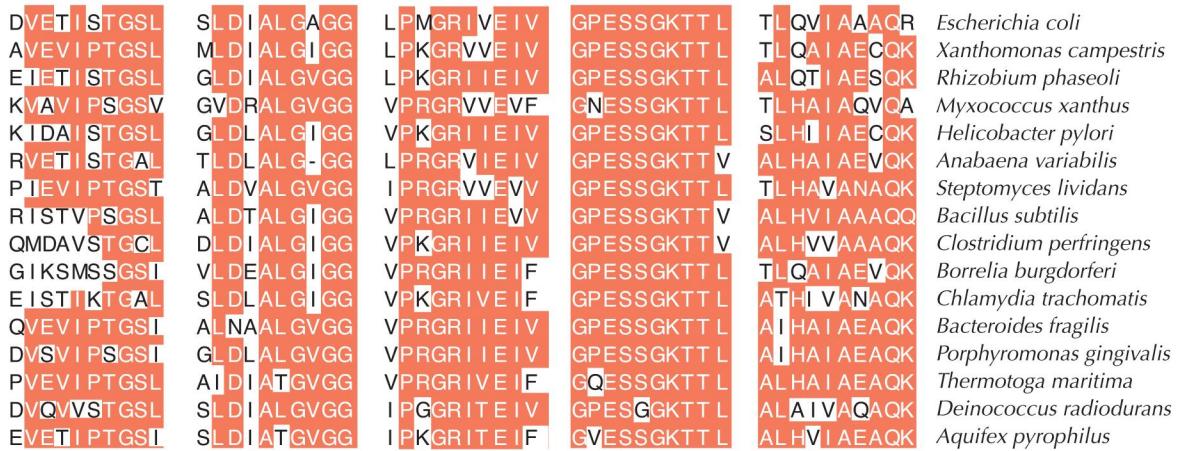


FIGURE 5.16. Example of a multiple sequence alignment, showing alignment of a portion of the RecA proteins from different bacterial species. Amino acids conserved across most or all of the species are highlighted in red. Letters are the abbreviations of different amino acids (see Fig. 2.23).