



543223	PQPMVPGAVPTLSGEEDAGPGGNVIAFADPFLRHRARVRSMQIILVADDHEANRMVLQRL	494
533516	PQPQVPGAVPSLSGDEGAGPGGNVIAFADPFLRHRARVRSMQIILVADDHEANRMVLQRL	530
	:       ***:               .. .*****:*****:*****:*****:*****	
543220	EKAGHKVTCVNGGAEVLDALDAQASYDAAIVDLHMPGMSGLDLLKQLRVMQASGMPYVPM	723
543211	EKAGHKVTCVNGGAEVLDALDAQASYDAAIVDLHMPGMSGLDLLKQLRVMQASGMPYVPM	723
543223	QKAGHRVLCVDGGEAVLDALADSEFDAVIVDLHMPGMSGLDMLKELRVMQAGGGPRTPVL	554
533516	QKAGHRVLCVDGGEAVLDALADSEFDAVIVDLHMPGMSGLDMLKELRVMQAGGGPRTPVL	590
	:****:* **:* * ***** :.:**.******:***:*****.* * .**:	
543220	VLSADVTPEIILRCEQAGARAFILAKPVVATRLLEVLADVAANTRAEP--GIQSVPALPVG	781
543211	VLSADVTPEIILRCEQAGARAFILAKPVVATRLLEVLADVAANTRAEP--GIQSVPALPVG	781
543223	VLSADVTPEAIQRCTQAGAHAFILAKPVVAVRLLDTLAEIASNAQLRTMAAPVVRPAAPVQ	614
533516	VLSADVTPEAIQRCTQAGAHAFILAKPVVAVRLLDTLAEIASNAQLRTMAAPVVRPAAPLQ	650
	*****:* * * *****:*****.***:*:**:***: . .       ** *:	
543220	DGVLDTAVLDELASLGMGDGFERKFIDQCLADVDASMGQLQGCGERQAWEDFREHAHALR	841
543211	DGVLDTAVLDELASLGMGDGFERKFIDQCLADVDASMGQLQGCGERQAWEDFREHAHALR	841
543223	DGVLDSVLDDELASLGMGEGFEREFIRQCLEDAASCWGKAEQAGETAQWEVFREQSHAIK	674
533516	DGVLDSVLDDELASLGMGEGFEREFIRQCLEDVASCWGKAEQAGEAAHWDFREQSHAIK	710
	*****:*****:*****:* * * * . :.** : .** * : *****:***:	
543220	GVASNLGLVQVAASSGEIMRMADWQLKGEWSSRLGNLATALRNGRNALAARSAGAPHRDD	901
543211	GVASNLGLVQVAASSGEIMRMADWQLKGEWSSRLGNLATALRNGRNALAARSAGAPHRDD	901
543223	GVASNLGLMRASNRAGELMRMADWQLKAEWRVRLGVLQDAIKEGRRALDARAERRLRGAA	734
533516	GVASNLGLMRASNRAGELMRMADWQLKTEWRTRLGILQEAIKEGRRALDARAERRMRGAA	770
	*****:.: : **:***** ** * * * * * :.:**.* ** * :       :	
543220	SERSPS	907
543211	SERSPS	907
543223	EDGE--	738
533516	DDGEAR	776
	.: .	

## Supplementary figure 2.

Alignment of the RPF sensor protein. The four sequences represent the different gene clusters present in our strain collection.