

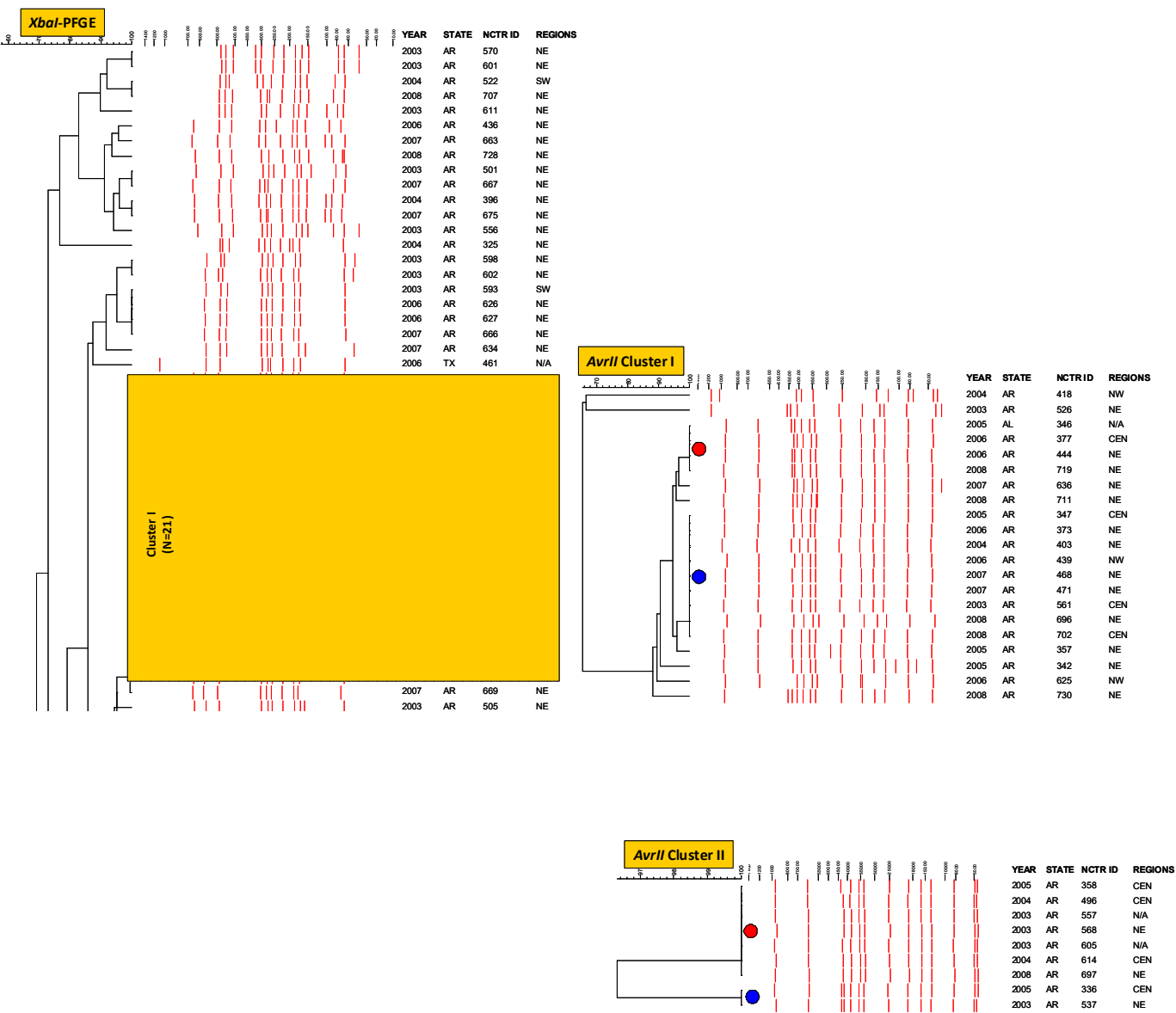
Supplemental Table S1 *Salmonella enterica* serovar Javiana virulence gene targets, their function, primer sequences and amplicon sizes used in this study

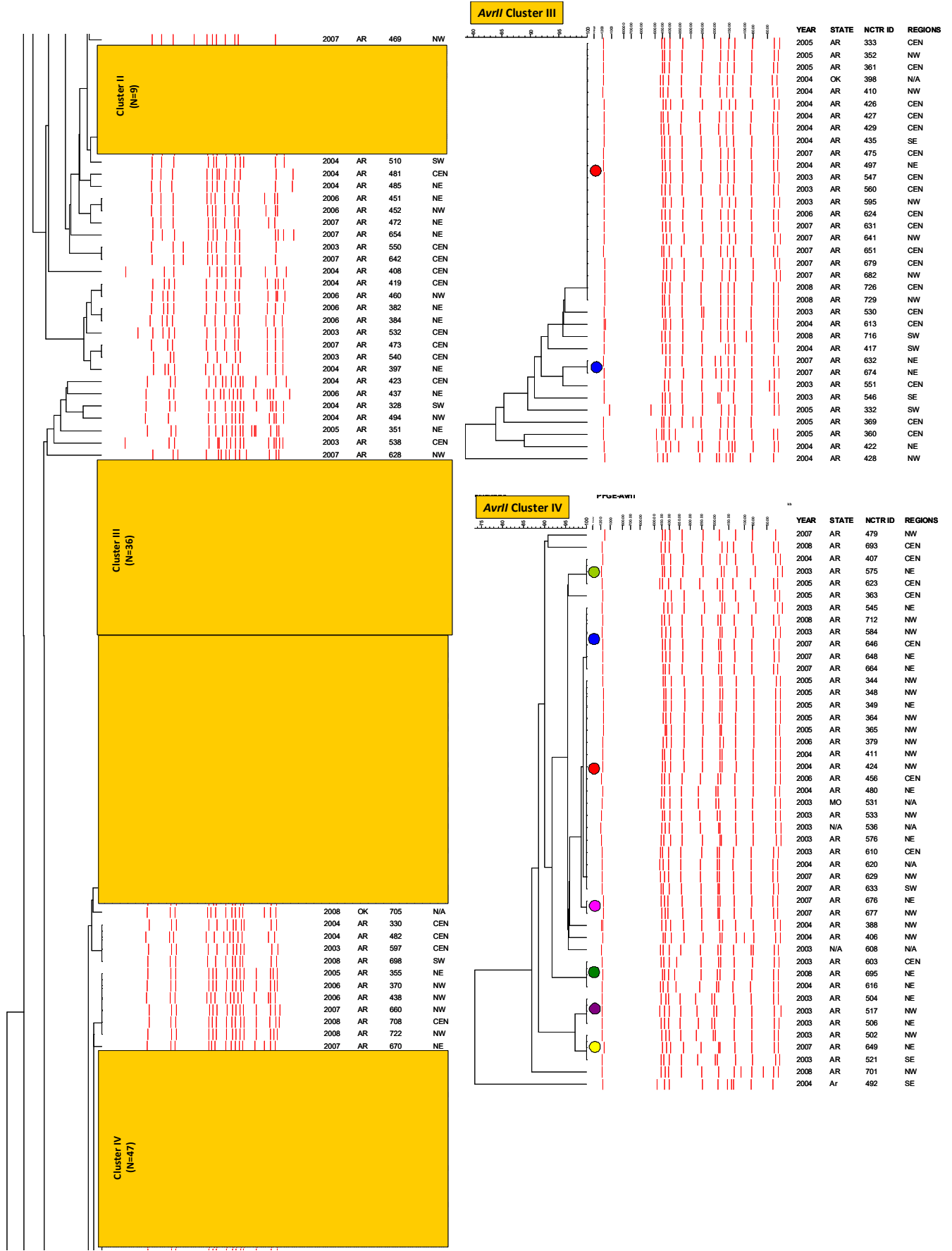
Target gene	Function	Oligonucleotide sequence	Amplicon size	Reference
<i>spvB</i>	Growth within host	F: CTATCAGCCCCGCACGGAGAGCAGTTTTTA R: GGAGGAGGCGGTGGCGGTGGCATCATA	717	Skyberg, Av. Dis, 2006
<i>spiA</i>	Survival within macrophage	F: CCAGGGGTCTTAGTGTATTGCGTGAGATG R: CGCGTAACAAAGAACCCGTAGTGATGGATT	550	Skyberg, Av. Dis, 2006
<i>pagC</i>	Survival within macrophage	F: CGCCTTTTCCGTGGGGTATGC R: GAAGCCGTTATTTTTGTAGAGGAGATGTT	454	Skyberg, Av. Dis, 2006
<i>cdtB</i>	Host recognition/invasion	F: ACAACTGTCGCATCTCGCCCCGTCATT R: CAATTTGCGTGCGTTCTGTAGGTGCGAGT	268	Skyberg, Av. Dis, 2006
<i>msgA</i>	Survival within macrophage	F: GCCAGGCGCACGCGAAATCATCC R: GCGACCAGCCACATATCAGCCTCTTCAAAC	189	Skyberg, Av. Dis, 2006
<i>sipB</i>	Entry into nonphagocytic cells, killing of macrophages	F: GGACGCCGCCCGGGAAAACTCTC R: AACTCCCCTCGCCGCCTTCACAA	875	Skyberg, Av. Dis, 2006
<i>prgH</i>	Host recognition/invasion	F: GCCCGAGCAGCCTGAGAAGTTAGAAA R: TGAAATGAGCGCCCTTGAGCCAGTC	756	Skyberg, Av. Dis, 2006
<i>spaN</i>	Entry into nonphagocytic cells, killing of macrophages	F: AAAAGCCGTGGAATCCGTTAGTGAAGT R: CAGCGCTGGGGATTACCGTTTTG	504	Skyberg, Av. Dis, 2006
<i>orgA</i>	Host recognition/invasion	F: TTTTGGCAATGCATCAGGGAACA R: GGCGAAAGCGGGGACGGTATT	255	Skyberg, Av. Dis, 2006
<i>tolC</i>	Host recognition/invasion	F: TACCCAGGCGCAAAAAGAGGCTATC R: CCGCGTTATCCAGGTTGTTGC	161	Skyberg, Av. Dis, 2006
<i>lpfC</i>	Host recognition/invasion	F: GCCCCGCTGAAGCCTGTGTTGC R: AGGTCGCCGCTGTTTGAGGTTGGATA	641	Skyberg, Av. Dis, 2006
<i>sifA</i>	Filamentous structure formation	F: TTGCCGAACGCGCCCCACACG R: GTTGCTTTTCTTGCGCTTCCACCCATCT	449	Skyberg, Av. Dis, 2006
<i>sopB</i>	Host recognition/invasion	F: ATGCAAATACAGAGCTTCTATCA R: GGCATAAAGGGACAGCACA	1700	Nayak, IJFM, 2004
<i>pefB</i>	Host recognition/invasion	F: TGATGCTGAACAGAAAAGAT R: ATAATAACAACCATGTGAG	296	Foley, JCM, 2006
<i>iroN</i>	Iron acquisition	F: ACTGGCACGGCTCGCTGTCGCTCTAT R: CGCTTTACCGCGTTCTGCCACTGC	1205	Skyberg, Av. Dis, 2006
<i>sitA</i>	Iron acquisition	F: AAGCGTTGGAACCACAATTC R: GTCCTCACCTGCTCGATAGC	245	

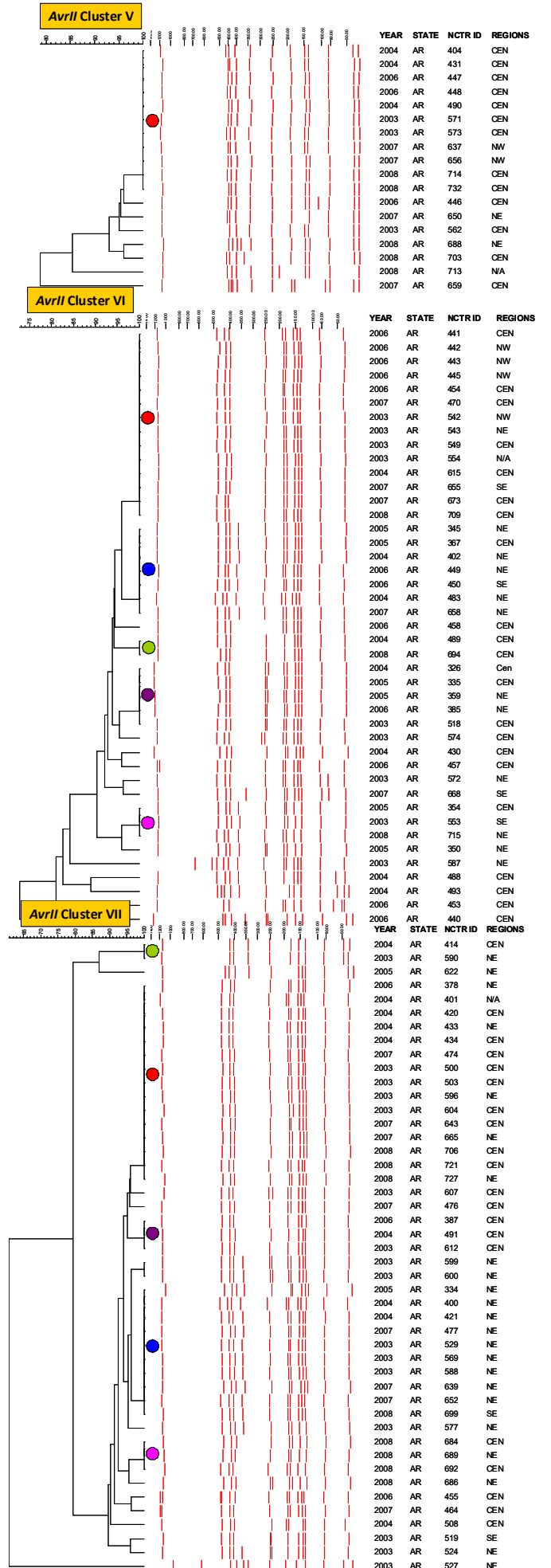
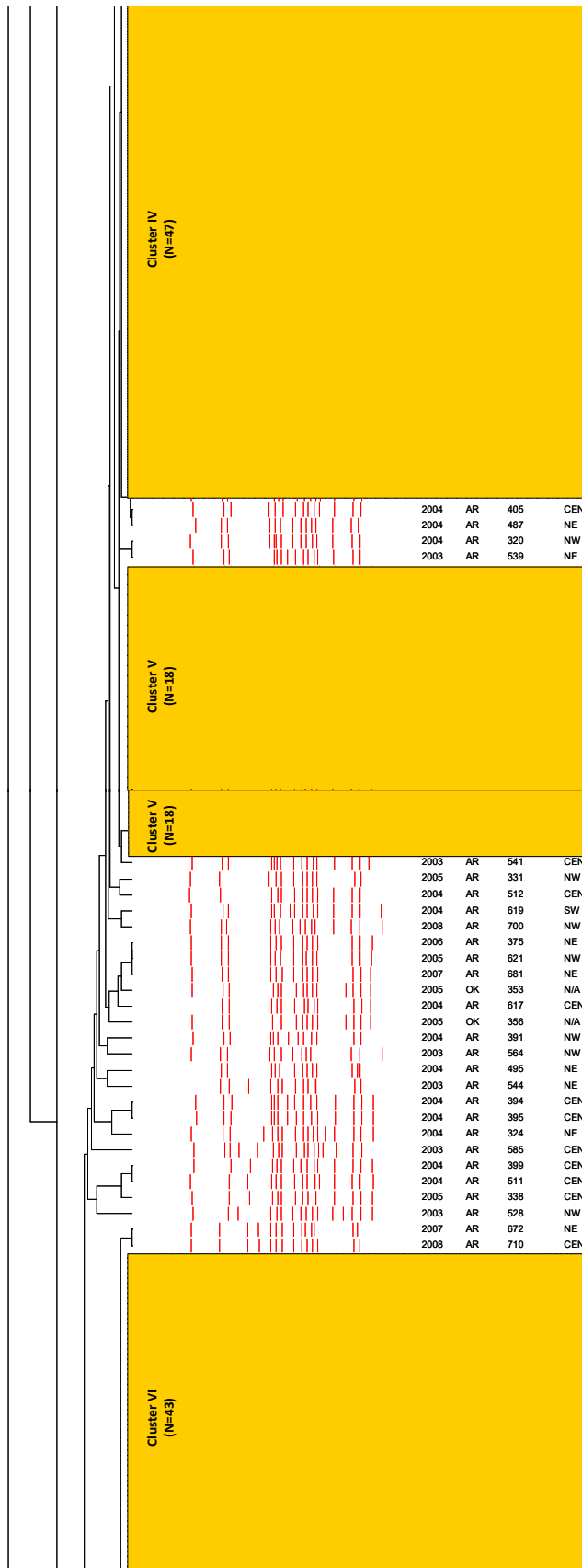
<i>hilA</i>	Host recognition/invasion	F:TTAATCGTCCGGTCGTAGTG R:TCTGCCAGCGCACAGTAAGG	597	Foley, JCM, 2006
<i>fimH</i>	Adhesion to cells	F:GGGACGGCGACCGATATCTT R:TTGTCTGGCGAGGGATCGTC	412	Foley, JCM, 2006
<i>iss</i>	Survival	F:TCACATAGGATTCTGCCG R:AGAAATCAAAAGGTGGCC	607	Dezfulian, JCM, 2003
<i>iutA</i>	Aerobaction receptor	F:GGCTGGACATCATGGGAAGTGG R:CGTCGGGAACGGGTAGAATCG	302	
<i>iucC</i>	Iron uptake; intracellular growth	F:GTCGCCGTGGTGGGGTAAGAG R:TCCCCCGGTAGCATGAGGTGTTGT	429	
<i>virB4</i>	Type 4 secretion system	F:TTGGCATTGATGGCACCGAGTTTC R:TGTAATCGGCATCAGGGTTAGCCA	315	
<i>virD4</i>	Type 4 secretion system	F:TCGGCCTCTCAGCTTGAGGAAATCT R:TTTGCAAGTTCGGGAGCAACCTTC	370	
<i>invA</i>	Host recognition/invasion	F:TATCGCCACGTTCCGGGCAA R:TCGCACCGTCAAAGGAACC	275	Nayak, IJFM, 2004
<i>h-li</i>	Flagellin	F:AGCCTCGGCTACTGGTCTTG R:CCGCAGCAAGAGTCACCTCA	173	Nayak, IJFM, 2004
<i>aceK</i>	Regulation of isocitrate in tricarboxylic and glyoxylate bypass	F:CAGGGCGAGGGTATGAAACAC R:AACTGCGATTCTTCGGTAGAAC	191	Nayak, IJFM, 2004
<i>iapP</i>	Invasion associated acyl carrier	F:CACCTCTTGTATTGCCGTTG R:GGCATATATCCGCAAAGGTC	176	Zou, unpub. data
<i>sopE</i>	Encodes a effector protein	F:ATTGTTGTGGCGTTGGCATCGT R:AATGCGAGTAAAGATCCGGCCT	186	Zou, unpub. Data
<i>rhuM</i>	Encodes a cytoplasmic protein	F:CATCGGCTGTACCCGACTAT R:CAGCACGCTGATGAATGAGT	222	Zou, unpub. Data
<i>spi4H</i>	Inhibits serine peptidase	F:ACTGCTCGCTTGTGGTATCAGGAA R:TCTTACCGTGCTGTGGATGGTTCA	154	Courtney, Mol Cell Probes, 2006
<i>ttrB</i>	Tetrathionate respiration	F:ATGTGGACGGGAGTCAATATGG R:GTGGCGATGCGGCTATGG	608	Courtney, Mol Cell Probes, 2006
<i>sugR</i>	Encodes ATP binding protein	F:ACTGCTCGCTTGTGGTATCAGGAA R:TCTTACCGTGCTGTGGATGGTTCA	152	Zou, unpub. Data

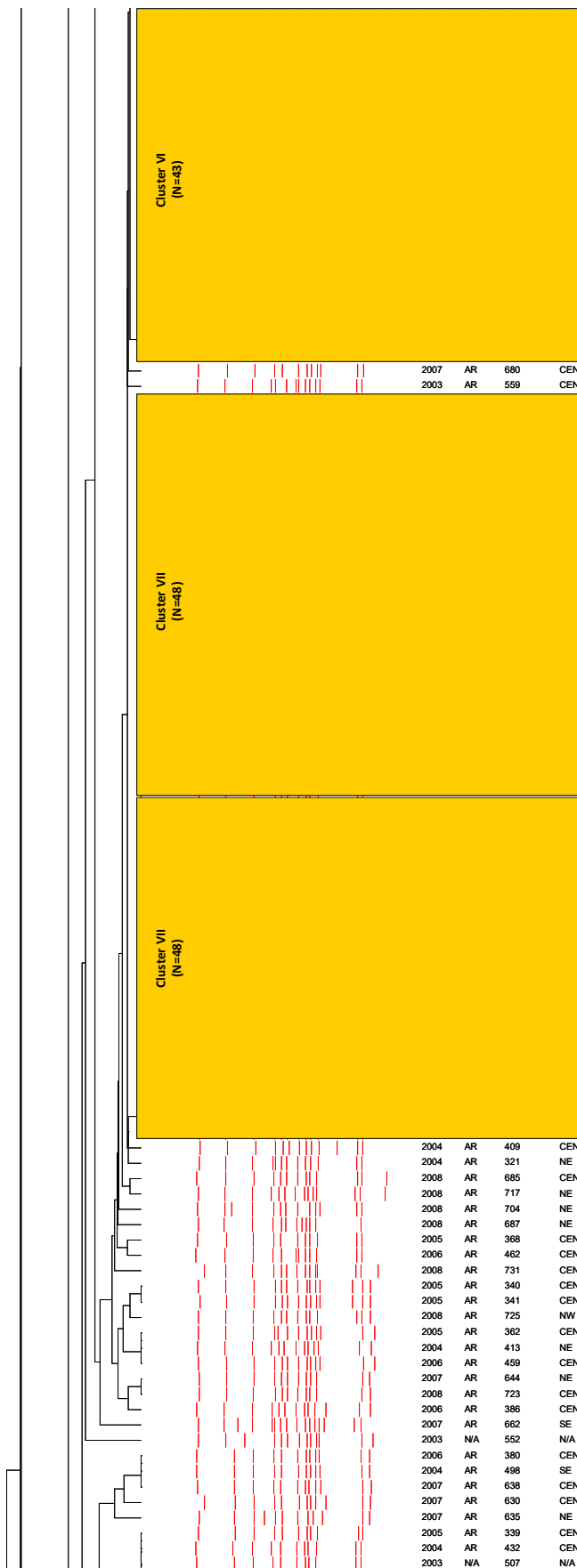
<i>purR</i>	DNA-binding transcriptional repressor	F: CGCTTCCCCTTTTCCTCAAG R: CCATCACCACCATCGGAATATG	629	Courtney, Mol Cell Probes, 2006
<i>rmbA</i>	Encodes a cytoplasmic protein	F: AGCCTTCACAAATTGTCCATTG R: TCCGTATAGTTAAGCGTTCGTC	454	Courtney, Mol Cell Probes, 2006
<i>avrA</i>	Encodes a secreted effector protein	F:AATGGAAGGCGTTGAATCTG R: GAGCTGCTTTGGTCCTCAAC	170	Zou, unpub. Data

Supplemental Figure S1 Dendrogram based on *Xba*I and *Avr*II pulsed-field gel electrophoresis macro-restriction profiles of *Salmonella* Javiana strains. The dendrogram on the left illustrates *Xba*I digested profiles, while the dendrograms on the right illustrate *Avr*II digested profiles for the corresponding cluster





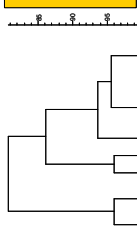




AvrII Cluster VIII

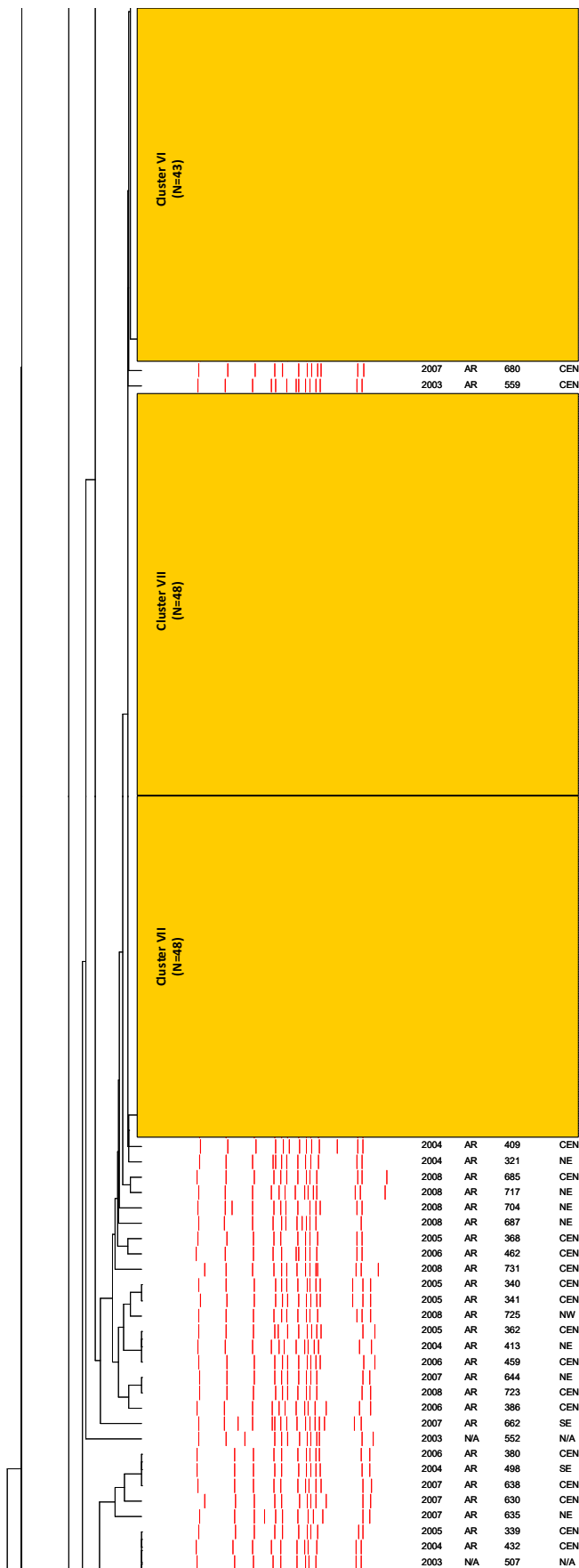


AvrII Cluster IX

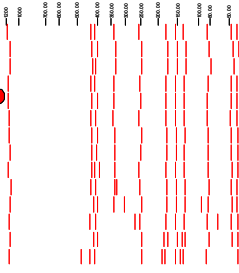
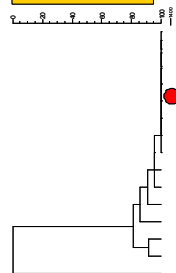


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2004	AR	327	CEN
2005	AR	343	CEN
2005	AR	366	CEN
2006	AR	376	CEN
2004	AR	416	CEN
2004	AR	425	CEN
2003	AR	548	SW
2005	AR	337	CEN
2008	AR	718	CEN
2003	AR	516	CEN
2007	AR	647	NE
2004	AR	322	SE
2004	AR	389	CEN
2003	AR	589	CEN

YEAR	STATE	NCTR ID	REGIONS
2007	AR	478	CEN
2003	AR	565	NW
2007	AR	671	CEN
2007	AR	465	CEN
2004	AR	484	SE
2007	AR	678	CEN
2004	AR	618	NE
2006	AR	374	CEN
2003	AR	583	NW
2003	AR	566	N/A
2008	AR	683	CEN
2007	AR	653	NE

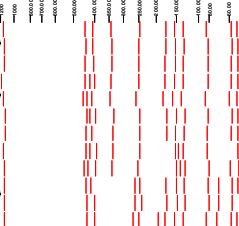
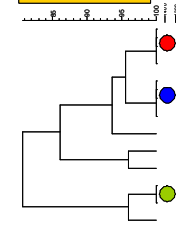


AvrII Cluster VIII



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AvrII Cluster IX



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