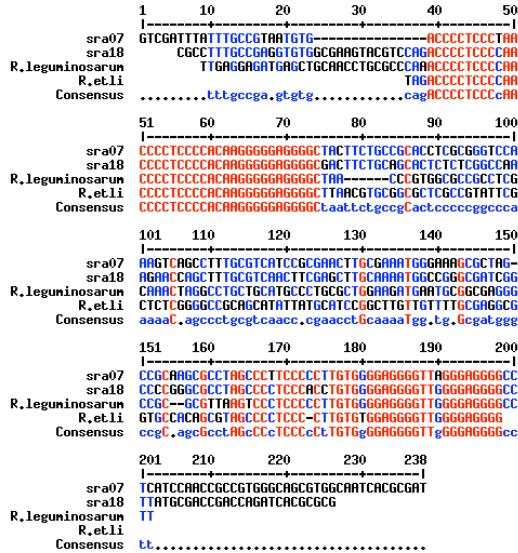


Short Identity and synteny results

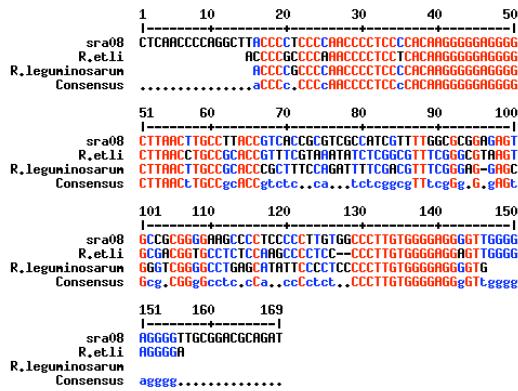
Syntenic genes are represented in yellow

⇒ *sra07* and *sra18*



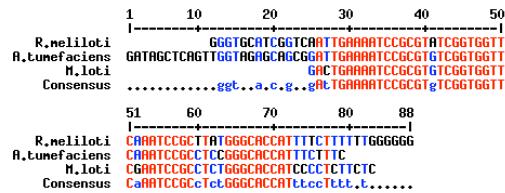
	Left	Right
<i>sra07</i>	<i>smc00325</i>	<i>smc00326</i>
<i>sra18</i>	<i>smc03026</i>	<i>flgB</i>
<i>R. etli</i>	<i>RHE_CH01163</i>	<i>RHE_CH01164</i>
<i>R. leguminosarum</i>	<i>RL1293</i>	<i>RL1294</i>

⇒ *sra08*



	Left	Right
<i>sra08</i>	<i>cfal</i>	<i>smc00359</i>
<i>R. etli</i>	<i>kupchl</i>	<i>RHE_CH00862</i>
<i>R. leguminosarum</i>	<i>cheW</i>	<i>RL3290</i>

⇒ *sra15*



	Left	Right
<i>sra15</i>	<i>smc04432</i>	<i>tRNA-phe</i>
<i>A. tumefaciens</i>	<i>AGR_C_892</i>	<i>tRNA-phe</i>
<i>M. loti</i>	<i>mll6432</i>	<i>mll6433</i>

→ sra21

1 10 20 30 40 50
 sra21 ATCGCTCAGTCCCCAARACTGCGCTCGATCTGCTGCCGTRACCTTACGG
 agro TCCGCAATTTTCGCCAC
 ConsensusTCCcCAaaTcgCCaC.....
 51 60 70 80 90 100
 sra21 TAACCGGTAAAGATAATCACATCACGGCATTTGTGATCGCAGCTTTGCCCRG
 agro
 Consensus
 101 110 120 130 140 150
 sra21 GAAAGCATGCAACGCCGCATGTTCCGGRAGCAGGCACGGCGCTGC
 agro CGGAGATCCTGACCGGGCGCGCTGCC
 ConsensusCGGAGacCCgeACccGGCGCcTccc
 151 160 170 180 190 200
 sra21 GCGCTTGTGCCGCCCTTGCCCGCCCTGCCATGATCCGGTGGGGAGGCG
 agro GCGCTTGTCTGCCGCCCTGCCATGATGGGTGGTGGTGG
 Consensus GcGCTTGTcgcGCCCTTGGCCCaCcGCCATGAT.....GGAGGcc
 201 210 220 23832
 sra21 ACCGCAACGAGCTTGAAGTCCGGAATGCTTTCA
 agro AACCTC
 Consensus AAAGca.....

	Left	Right
sra21	smc00931	hisS
A.tumefaciens		AGR_C_3323

→ sra31

1 10 20 30 40 50
 sra31 TGCTTGCCGCCAARRAGTGCHAGCCGGTTTTGGGATAAGCACTGCTTA
 R.leguminosarum TGCTTGCCGCCAARRAGTGCHAGCCGGTTTTGGGATAAGCACTGCTTA
 M.loti TGCTTGCCGCCAARRAGTGCHAGCCGGTTTTGGGATAAGCACTGCTTA
 R.etli TGCTTGCCGCCAARRAGTGCHAGCCGGTTTTGGGATAAGCACTGCTTA
 Consensus TGCTTGCCGCCAARRAGTGCHAGCCGGTTTTGGGATAAGCACTGCTTA
 51 60 70 80 90
 sra31 T---AACGCTCTAGACGGCGCCTTTATGTCCTRGGCGCC
 R.leguminosarum AG---AACGCTCTAGACGGCGCCTTTATGTCCTRGGCGCC
 M.loti A---AACGCTCTAGACGGCGCCTTTATGTCCTRGGCGCC
 R.etli A---AACGCTCTAGACGGCGCCTTTATGTCCTRGGCGCC
 Consensus a...AGggacCTaaAGCGCtCGCg.....

	Left	Right
sra31	smc01806	smc01807
R. etli	RHE_CH02389	RHE_CH02390
R. leguminosarum	RL0960	RL0961
M. loti	mll0880	mll0883

→ sra34

1 10 20 30 40 50
 sra34 TTCCGGTTGGATTCGGATTTCGAAACCCCGGGAAACCAGGGGGTTTT
 mzo GARATCGGAAACCCGGGGAAACCAGGGGGTTTT
 etli TCCCAATCAGGAAACCCGGGGAAACCAGGGGGTTTT
 leguminosarum CCGAAATATGGAAACCCGGGGAAACCAGGGGGTTTT
 ConsensusccaaaataaataaaACCCGGGGAAACCAGGGGGTTTT
 51 60 70 80 88
 sra34 TTTTGGCGTTACCGAAC
 mzo CATTTCGCTGTTACCGAACCTGCACTACTATGCGAGCGAGT
 etli 6TTTTCTGATG
 leguminosarum ATTTCATGAA
 Consensus .tTTtgctag.....

	Left	Right
sra34	tufA	smc01325
R. etli	tufB	RHE_CH01659
R. leguminosarum	tufB2	RL1758
M. loti	mll4028	mll4029

→ sra36

1 10 20 30 40 50
 R.melioliti GGGTGCACTGGTCATTGAAAATCCGGGTATCGGGGGTT
 A.tumefaciens GATAGCTCTGGGGTGAGACGGGGATGAAATACTGGGGGT
 M.loti GACTGAAATACTGGGGGTATCGGGGGTT
 Consensustgt...a.c.g...g@TGAATACTGGGGGTATCGGGGGTT
 51 60 70 80 88
 R.melioliti CAAATCCGCTTATGGGCCCATTTCTTTGGGGGG
 A.tumefaciens CAAATCCGCTTCGGGCCCATTTCTTCTC
 M.loti CAAATCCGCTTCGGGCCCATTTCTTCTC
 Consensus CAAATCCGCTTCGGGCCCATTTCTTCTC.....

	Left	Right
sra36	smc04432	iRNA-phe
A.tumefaciens	AGR_C_892	iRNA-phe
M. loti	mll6432	mll6433

→ sra37

1 10 20 30 40 50
 sra37 GGTACCCGCTTATAGCGTTGTGAAATGTGACGATTCAGCAGCACT
 R.leguminosarum CGGGTCGCAAGCACTTCAGCGTTCCATTTGTGACGATTCAGCAGCACT
 R.etli .tgt...c...a...at...cg.t.....TGTGACGATTCAGCAGCACT
 Consensus ..tgt...c...a...at...cg.t.....TGTGACGATTCAGCAGCACT
 51 60 70 80 90 100
 sra37 TTCCGTCTGGTTGCCTATTCGGACCGGGCTGAAATGTCCTRTTC
 R.leguminosarum TT-TACGCTGTTGGCGCTATGGTGGCGCGCGGGCGAAATTGTCCTRTTC
 R.etli TT-TACGCTGAAATGGCGTATGGTGGCGCGCGGGCGAAATTGTCCTRTTC
 Consensus TT-TACGCTGAAATGGCGTATGGTGGCGCGGGCGAAATTGTCCTRTTC
 101 110 120 126
 sra37 CGGCCACAAATGGAGGCGCGCAT
 R.leguminosarum CGGCCACAAAGGGCGCGCAT
 R.etli CGGCCACAA
 Consensus CGGCCACAA...gg...gcagcg.t.

	Left	Right
sra37	smc02079	exoR
R. etli		RHE_CH01813
R. leguminosarum	RL2036	exoR

► *sra42*

	1	10	20	30	40	50
<i>sra42</i>	GGGAAATGGCGGCATGGRAAGGGCCCGTGTGTCCTTGGGCAGTC					
<i>R. etli</i>	GTGACCGCAGCATATACTGCTCTGCTCGCGGCATG					
<i>M. loti</i>		CCTTGGGCAGTC				
Consensusg...cgca....aa...g...cc....tgCttGGGGCgtc					
	51	60	70	80	90	100
<i>sra42</i>	GAGACATGGCGAAGGGCTTACCGGTATGGTCGGCCGCGTCGCCACAAATC					
<i>R. etli</i>	GGAGACTGGCGAACCGCAGRCGRCGCGCCGGCTTGGCCGAGTTGAAATC					
<i>M. loti</i>	CTTGCACTGACAAAGCGCGCAGCGCTGTCGGCCGGTGAAGCAGAAATC					
Consensus	g...aCAGTGGCAaaagtcgAC,c6...GGctggcctgt.ac,acaRAtc					
	101	110	120	130	134	
<i>sra42</i>	GCACCTGGCCGACAGGCAACCGCGCTGGGAATCG					
<i>R. etli</i>	GCACGGCGCCGACAGGCAACCGCGCTGGGAATCG					
<i>M. loti</i>	GCACCGCGCCGACAGGCAACCGCGCTGGGAATCG					
Consensus	GCACg...GCCGCAAGGCAACCGCGCTGGGAATCG					

	Left	Right
<i>sra42</i>	<i>SMc01197</i>	<i>SMc01196</i>
<i>R. etli</i>	<i>RHE_CH02373</i>	
<i>M. loti</i>		<i>mlr1783</i>

► *sra44*

	1	10	20	30	40	50
<i>sra44</i>	GTCGTTCTCCATCTCGCCGGATCCAGGTCGGCGACGCTTGTCAATTCG					
<i>R. leguminosarum</i>	TCATCTCCATCTCGCCGGATCCAGGTCGGCGACGCTTGTCAATTCG					
Consensus	.TcaTTCTCCATCTCGCCGGATCCAGGTCGGCGACGCTTGTaaagacTG					
	51	60	70	80	90	100
<i>sra44</i>	TGCAAGTATTCGGCAGCCGCTTATGTAAT-GGCTTAAAGGCGTTTTTC					
<i>R. leguminosarum</i>	GGCAATGATGTTGCGCTTATGTAATGGCTTAAAGGCGTTTTTC					
Consensus	gGCAAGtaT...GcaCCcTTATGTAat,GGCTTAAAGGCGTTTTTC					
	101	110	120	130	140	150
<i>sra44</i>	CCCATTGCGAACGGGAAATTGCTTTCCGCAATTTCATTCATGCT					
<i>R. leguminosarum</i>	CCCATTGCGAACGGGAAATTGCTTTCCGCAATTTCATTCATGCT					
Consensus	CCCATTGCGAACGGGAAATTGCTTTCCGCAATTTCatGCTa.....					
	15155					
	!---!					
<i>sra44</i>	CCGCT					
<i>R. leguminosarum</i>						
Consensus					

	Left	Right
<i>sra44</i>	<i>smc00530</i>	<i>nifS</i>
<i>R. etli</i>	<i>sufB</i>	<i>nifSCh</i>
<i>R. leguminosarum</i>	<i>sufB</i>	<i>nifS</i>
<i>A.tumefaciens</i>	<i>AGR_C_3348p</i>	<i>nifS</i>

► *sra67*

	1	10	20	30	40	50
<i>sra67</i>	GCGCGTACGCCCTTAATAACGCCCGCGCTCTCATCGACCCGGCTGACGCA					
<i>R. etli</i>	GCGCGTACGCCCTTAATAACGCCCGCGCTCTCATCGACCCGGCTG-GCCG					
<i>R. leguminosarum</i>	GCGCGTACGCCCTTAATAACGCCCGCGCTCTCATCGACCCGGCTG-GCCG					
<i>A.tumefaciens</i>	AGCCCGTAAAGCGCTATGCAAGCCGGTGTCCCATCGACCCGGCTGAGCG					
Consensus	.GCCCGTAAAGCGCTATGCAAGCCGGTGTCCCATCGACCCGGCTG,gcCg					
	51	60	70	80	90	100
<i>sra67</i>	CCGCGTACGTTCAAAAGCGCTATGCAAGGGGAGATGGGGCGATCCCGA					
<i>R. etli</i>	TACCGGTTCTGCTCGAGRAAC--AGGGGAGATGGGGCGCCATCTCC					
<i>R. leguminosarum</i>	TATCGGTTCTGCTCGAGRAAC--AGGGGAGATGGGGCGCCATCTCC					
<i>A.tumefaciens</i>	TATCGGTTCTGCTCGAGRAAC--AGGGGAGATGGGGCGCCATCTCC					
Consensus	CCGCGTACGTTcaaaAGCGCTATGCAAGGGGAGATGGGGCGCCatCTCC					
	101	110	120	131		
<i>sra67</i>	CTCCCCTTTCCGCTGCTGGAGGAGAGACCC					
<i>R. etli</i>	CTCTTTCTTCTGCGAAC					
<i>R. leguminosarum</i>	CCTTTT					
<i>A.tumefaciens</i>	CTCCCCTTTT					
Consensus	CCCCCTttt.....					

	Left	Right
<i>sra67</i>	<i>rpmA</i>	<i>smc03773</i>
<i>R. etli</i>	<i>rpmA</i>	<i>RHE_CH04064</i>
<i>R. leguminosarum</i>	<i>rpmA</i>	<i>rI4678</i>
<i>A.tumefaciens</i>	<i>rpmA</i>	<i>Atu2783</i>