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E_coli      LRGPSISIACTACTSGVHNIGHAARI IAYGDADVMVAGGAEKASTPLGVGGFGAARALSTR 212
Rlegum_1    TRGLPVTLSACASGVTAIQLGIEAIRQGRTRTRALTVATDGSLSAEALIRFSLLSALSTQ 226
Rlegum_2    VTGSSRTFMGEEAAGISAVETAFAFYRIKSGESSHALVGGAFAAERPDMILLTEAIGAHARG 224
           * . ::      :*: : . * * : .. .. : . : * :

E_coli      NDNPQAASRPWDKERDGFVLDGAGMLVLEEYEHAKKRGAKIYAELVGFMSDDAYHMTS 272
Rlegum_1    NDPPTASKPFSKDRDGFVIAEGAATLVLESLESAVARGAKVLGIMKGAGDKADSFHRTR 286
Rlegum_2    DWVPLWSRKPS--DGGGMITGSAGAFVLVLESRKHAARGAHIYAVVD-----AVEGDR 275
           : * : :* : .*: : ..... ****. : * ***: : . :

E_coli      PPENGAGAALAMANALRDAGIEASQIGYVNAHGTSTPAGDKAEQAVKTIFGEAASRVLV 332
Rlegum_1    SSPDGGPAIATIRAALADAGMSEGDIGYINAHGTSTPENDKMEYGSMSAVFGEKLVGIPV 346
Rlegum_2    GNRNSGNLEVRLERLLLGPAAGLAAESTAFSGSTGMHDLAAREER----AVLEHQLPGVAI 331
           :.. : * *. : : : .* . * : : . : :

E_coli      SSTKSMTGHLLGAAGAVESIYSILALRDQAVPPTINLDNPDEGCDLDFVPHEARQVSGME 392
Rlegum_1    SSNKSMIGHTLTAAGAVEAVFSLQTMLTGTLPPTINYNNPDPSIILDVVPNKKKREAQ-VS 405
Rlegum_2    RGFGGVTGHTIETQFTLGLALAAALAVDGKAKVPPFDA-----AHEAPMRAGAT 379
           . .: ** : : : : : : : * : : : :

E_coli      YTLCONSFGFGGTNGSLIFKKI-- 413
Rlegum_1    AVLSNSFGFGGQNASLVMLEPA 428
Rlegum_2    AAVVTTVGHQRGEGVAVLSANA- 401
           .: :.*. :. : :

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***Rhizobium leguminosarum* biovar *viciae* 3841, deficient in 27-hydroxyoctacosanoate-modified lipopolysaccharide, is impaired in desiccation tolerance, biofilm formation and motility**

By: Elizabeth M. Vanderlinde, Artur Muszyński, Joe J. Harrison, Susan F. Koval, Dallas L. Foreman, Howard Ceri, Elmar L. Kannenberg, Russell W. Carlson and Christopher K. Yost

Supplementary Fig. 1(a)

Rlegum	IDWSQQIAKRGDQRQMENWQRIGVFAAGLALDDAGFKDDIEACGTMDMIVAAGGG	110
Rtrifolii	IDWSQQIAKRGDQRQMENWQRIGVFAAGLALDDAGFKDDIEACGTMDMIVAAGGG	110
Retli	IDWSQQIAKRGDQRQMENWQRIGVFAAGLALDDAGFKDNEACGTMDMIVAAGGG	110
Agrobac	IDWSAQIAKRGDQRQMENWQRLGVFAAGLALDDAGLKENTEACATMDMIVAAGGG	109
Sinorhiz	IDWSQQIPKRGDQRQMENWQRLGVFAAGLALDDAGLKDSLEACGSMDMIVAAGGG	110
Bart	VDWNLQIPKRSRQRMGTWQRLGTYAAGLALDDAGMKNNQLTSTMDMIIAAGGG	107
B_suis	VDWSLQIPKRGDQRQMETWQRLGTYAAGLALQDAGMKGDEALCATMDMIVGAGGG	107
M_loti	IDWNLQIAKRGDQRQMETWQRLGTYAAGLALDDAGIKGNDELCTTMDMVVAAGGG	108
Brady	VSFDSQIPKKGDRQMEAWQRIGTYAAGLALDSAGIKGNKDILSKIDMVVAAGGG	112
	:.:. *.*.:.***** ***:*.:.*****:.*:* . .:***:..****	
Rlegum	ERDINVDTLIVDEALKRNDRELLNEKLTTELRLPTLFLAQLSNLLAGNISIVHKV	165
Rtrifolii	ERDINVDTLIVDEALKRNDRELLNEKLTTELRLPTLFLAQLSNLLAGNISIVHKV	165
Retli	ERDINVDTLIVDEGLKRNDRELLNEKLTTELRLPTLFLAQLSNLLAGNISIVHKV	165
Agrobac	ERDINVDTLIVDEALKRNDREKLLNEKLTTELRLPTLFLAQLSNLMAGNISIVHKV	164
Sinorhiz	ERDINVDSLIVDEALKRNDRELLNEKLTTELRLPTLFLAQLSNLLAGNISIVHKV	165
Bart	ERDIVVDTQILSKARRVADHASMLNSILSTELRLPTLFLAQLSNLLAGNISIVHKV	162
B_suis	ERDITVDMQILEEGRTSNNRGVMLEKLTTELRLPTLFLAQLSNLLAGNISIVHKV	162
M_loti	ERDEAVDAAILAASESRNDRDVLLEKLTTELRLPTLFLAQLSNLLAGNISIVHKV	163
Brady	ERDLNVDTGVLTAEAKGANAPGFLNERLMSDLRPTLFLAQLSNLLAGNIAIVHGL	167
	*** ** :: : : ** . * :*****:***:*** :	
Rlegum	TGSSRTFMGEEAAGISAVETAFYRIKSGESSHALVGGAFAAERPDMILLTEAIGA	222
Rtrifolii	TGSSRTFMGEEAAGISAVETAFYRIKSGESSHALVGGAFAAERPDMILLTEAIGA	222
Retli	TGSSRTFMGEEASGVSAVETAFWRIRSGESTHALVGGAFAAERPDMILLTEAIGA	222
Agrobac	TGSSRTFMGEEAAGISAVETAFHRIRSGESSHALVGGAFSAERPDMILLFEAIGA	221
Sinorhiz	TGSSRTFMGEEAAGISAIETAFARIKAGQSSHTLVGGAFSAERLDIVLMIEAIOG	222
Bart	TGSSRTFMGEEGCLSAIQIAAARIRSGQSTHALVGGSYNAQSYDMLLAHELGLL	219
B_suis	TGSSRTFMGEEGSGISAIETAAARIRTGQSTHALVGGSYNAEHFDMILGAELGLL	219
M_loti	TGSSRTFMGEEGAGVSAVETAAARIRSGQSTHVLVGGAFQTEHSDMLLGYELAGY	220
Brady	GGTSRTFMGEEVAGADAARIALARIASGESDIALIGGSHNGERKDLMLVLYEFGDF	224
	*:***** .* .* . * ** :*:* .*:*. . : *::: *	

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Supplementary Fig. 1(b)