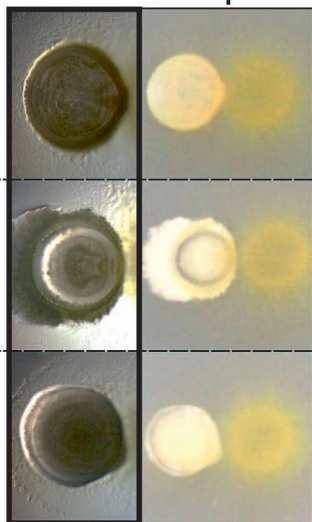
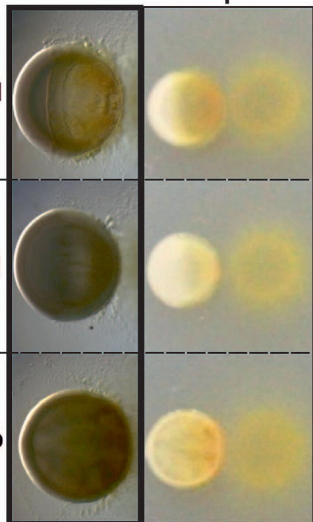


A

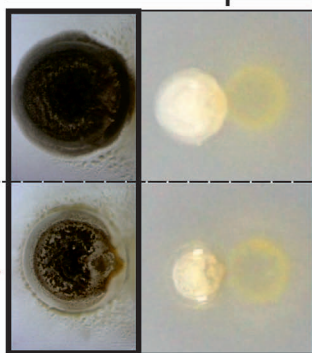
S. meliloti
field isolates | *Mx*
DK1622



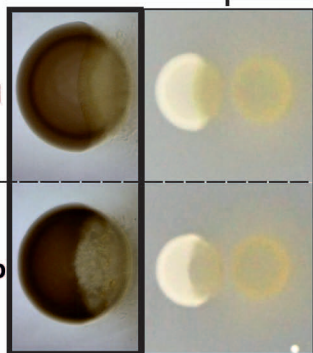
S. meliloti
laboratory strains | *Mx*
DK1622

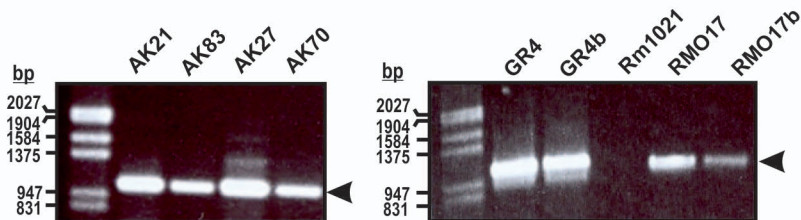
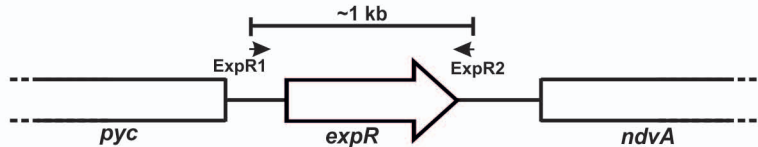
**B**

S. meliloti
field isolates | *Mx* DZ2



S. meliloti
laboratory strains | *Mx* DZ2



A**B**

RMO17	MNITLLVQFLALLEEMKTREEILPEFERLLDRCGFDFYGVIRQPKPHENPLRLLLAGRWP	60
AK21/83/27/70	MNITLLVQFLALLEEMKTREEILPEFERLLDRCGFDFYGVIRQPKPHENPLRLLLAGRWP	60
GR4	MNITLLVQFLALLEEMKTREEILPEFERLLDRCGFDFYGVIRQPKPHENPLRLLLAGRWP	60
RMO17b	MNITLLVQFLALLEEMKTREEILPEFERLLDRCGFDFYGVIRQPKPHENPLRLLLAGRWP	60
Rm1021	MNITLLVQFLALLEEMKTREEILPEFERLLDRCGFDFYGVIRQPKPHENPLRLLLAGRWP	60
GR4b	MNITLLVQFLALLEEMKTREEILPEFERLLDRCGFDFYGVIRQPKPHENPLRLLLAG GLA	60
RMO17	EGWPQIYIRKKYVVIDPTIRFLGHAQRGFRWRD TLVAFRSDPHRKRMSMMVEARNHGFLF	120
AK21/83/27/70	EGWPQIYIRKKYVVIDPTIRFLGHAQRGFRWRD TLVAFRSDPHRKRMSMMVEARNHGFLF	120
GR4	EGWPQIYIRKKYVVIDPTIRFLGHAQRGFRWRD TLVAFRSDPHRKRMSMMVEARNHGFLF	120
RMO17b	EGWPQIYIRKKYVVIDPTIRFLGHAQRGFRWRD TLVAFRSDPHRKRMSMMVEARNHGFLF	120
Rm1021	EGWPQIYIR----- ELAPERP -----	76
GR4b	ANLHPQEIRRYRS--DHSLPRACPARLPLARHARGIPLGPAPQAHGKHDGR-GAQSWPLR	117
RMO17	DGYIF-PVHGRRGLMGNLTVGGRVVDLSPVELSLFDAIAKRLFWKLELTDPEIMAEELVS	179
AK21/83/27/70	DGYIF-PVHGRRGLMGNLTVGGRVVDLSPVELSLFDAIAKRLFWKLELTDPEIMAEELVS	179
GR4	DGYIF-PVHGRRGLMGNLTVGGRVVDLSPVELSLFDAIAKRLFWKLELTDPEIMAEELVS	179
RMO17b	DGYIF-PVHGRRGLMGNLTVGGRVVDLSPVELSLFDAIAKRLFWKLELTDPEIMAEELVS	179
Rm1021	----- GHAPPLS -----	83
GR4b	RLYLSGPRPARAHGQPDRRRPGSRSEPGVEPFRRHCAQAVLEAARTHRS GDHGGTCLPR	177
RMO17	RVEVQMTREMEALHYLDGMTSNDIG-KVLDISSHTVDWYMNIGIQEKLKAKNRHHVVAI	238
AK21/83/27/70	RVEVQMTREMEALHYLDGMTSNDIG-KVLDISSHTVDWYMNIGIQEKLKAKNRHHVVAI	238
GR4	RVEVQMTREMEALHYLDGMTSNDIG-KVLDISSHTVDWYMNIGIQEKLKAKNRHHVVAI	238
RMO17b	RVEVQMTREMEALHYLDGMTLN D IG-KVLDISSHTVDWYMNIGIQEKLKAKNRHHVVAI	238
Rm1021	-----	238
GR4b	RS PDDAARNGGAPLSRRRNDLERHRQGPRHFQPHGRLVHERHPGKVEGEEPPSRRGD-RL	236
RMO17	AFRLGLIS	246
AK21/83/27/70	AFRLGLIS	246
GR4	AFRLGLIS	246
RMO17b	AFRLGLIS	246
Rm1021	-----	246
GR4b	PPGTDLL-	243