

AB2/73 I8E17_31260	1	-----MLNSPIP-----	7
Mesorhizobium_sp TIL83536.1	1	-----MLNNTIA-----	7
Mesorhizobium_loti WP_065005780.1	1	-----MLNNTIA-----	7
Rhizobium_tumorigenes WP_111220955.1	1	-----MLNSTIP-----	7
Dickeya_chrysanthemi WP_027713301.1	1	-----MSKYAAFL-----	8
C58(T-DNA) Atu6011	1	MSASALLDNQCDHFSTKMVDLIMVDKADELDRRVSDAFSEREASRGRITQISGECSAGLACKRLADGRFPEI-----	73
Ach5(T-DNA) X971_RS25520	1	MSASPLLDNQCDHLPTKMVDLTMVDKADELDRRVSDAFLEEREASRGRITQISTECSAGLACKRLADGRFPEI-----	73
S4(T-DNA) AVI_RS25490	1	-----MANFFYSRITNRSYSTKNLLNIEDKGRLKDELEKTRQTNICEICLHP-----	47
AB2/73 I8E17_31260	8	-----	7
Mesorhizobium_sp TIL83536.1	8	-----	7
Mesorhizobium_loti WP_065005780.1	8	-----	7
Rhizobium_tumorigenes WP_111220955.1	8	-----	7
Dickeya_chrysanthemi WP_027713301.1	8	-----	8
C58(T-DNA) Atu6011	74	---SAGEKVAALSAYIYVGKEILGRILESEPWARARVSGLV AIDLAPFCMDFSEAQLLQTLFLLSGKRCASSDLSHFVAI	150
Ach5(T-DNA) X971_RS25520	74	---SAGGKVAVL SAYIYIGKEILGRILESKPWARATVSGLV AIDLAPFCMDFSEAQLIQALFLLSGKRCAPIDL SHFVAI	150
S4(T-DNA) AVI_RS25490	48	RGHRASVCRQILMGFA YTSKTVLEGLLSTMPHDDAPLGKIFVTDLPPYDEQVPQVLLMQAAALVTSYEYSFEDLAYFLVL	127
AB2/73 I8E17_31260	8	-----TTSLPSIDLLYDYG SFLRLSDCEGGIGSV	36
Mesorhizobium_sp TIL83536.1	8	-----RNSLPSIDLLYDYG PFLRLSEEGGIGSF	36
Mesorhizobium_loti WP_065005780.1	8	-----RNSLPSIDLLYDYG PFLRLSEEGGIGSF	36
Rhizobium_tumorigenes WP_111220955.1	8	-----VASLPSIDLLYDYG SFLRLRDEGRIGSV	36
Dickeya_chrysanthemi WP_027713301.1	9	-----ANSVPCVDLLYDYAPFLQCSEAEGRICYF	37
C58(T-DNA) Atu6011	151	SISK TAR SRT LQMPPEYEGTKTRVTGFTITLEEAVPFD M VAYGRNLM LKASAGS EPTIDLLYDYRSEFFDQCSDSGRICFE	230
Ach5(T-DNA) X971_RS25520	151	SISK TAG FRTL PMP LIYENGTMKCVTGFTITLEGAVPFD M VAYGRNLM LKGSAGS EPTIDLLYDYRPFDFQCSDSGRICFE	230
S4(T-DNA) AVI_RS25490	128	PLQMALMQKS---PSLGKDFPVISGYSITKDS--VHSPVAFGRNLM PRGVSC EEPQIDVLYDYRGFLGGA FSEGVTSE	201
AB2/73 I8E17_31260	37	AONSLRPRIGIVGAGISGLVAATELLRACITDVLVFEARD-RMGGRAWSQIFDPREPNLIAEMGAMRFPSSATCLFHYLD	115
Mesorhizobium_sp TIL83536.1	37	AONSGRPRVIGIVGAGISGLVAATELLRACITDVLVFEARD-RMGGRAWSQIFDPREPHLIAEMGAMRFPSSATCLFHYLD	115
Mesorhizobium_loti WP_065005780.1	37	AONSRPRVIGIVGAGISGLVAATELLRACITDVLVFEARD-RMGGRAWSQIFDPREPHLIAEMGAMRFPSSATCLFHYLD	115
Rhizobium_tumorigenes WP_111220955.1	37	AONSRPRVIGIVGAGISGLVAATELLRACVTDVLVFEARD-RMGGRAWSQIFDPEPNLIAEMGAMRFPSSATCLFHYLD	115
Dickeya_chrysanthemi WP_027713301.1	38	PPGVPTPRVAIVGAGISGLVAATELLRACVKDITLFEARDRVGGRVWSQIFDPRPHLIAEMGAMRFPSSATCLFHYLD	117
C58(T-DNA) Atu6011	231	PEDVVPKPVAVICAGISGLVVASELLHACVDDVTIYEASD-RVGGKILWSHAEKD-APSVVAEMGAMRFPAAASCLEFFLE	308
Ach5(T-DNA) X971_RS25520	231	PEDVVPKPVAVICAGISGLVVANELHACVDDVTIYEASD-RVGGKILWSHAEKD-APSVVAEMGAMRFPAAASCLEFFLE	308
S4(T-DNA) AVI_RS25490	202	PKETKPKVAVICAGISGLVSATILLRNCIDDVTIIFEAKN-VVGGRAHTEHFKG-EPSVCAELGAMRFPSSQACLFYILE	279
AB2/73 I8E17_31260	116	KLRIDTAASFDPDGVVDTEVHYRCERYLWOAGSPPPLEKRRVQGWQALINDGYVHEG IQLPAPAKITILLRSRFRDQAR	195
Mesorhizobium_sp TIL83536.1	116	KLRIDTAASFDPDGVVDTEVHYRCARHLWOAGSPPPLEFRRVHQGWQALISDGYVHEG IQLPAPAKITILLRSRFRDQAR	195
Mesorhizobium_loti WP_065005780.1	116	KLRIDTAASFDPDGVVDTEVHYRCARHLWOAGSPPPLEFRRVHQGWQALISDGYVHEG IQLPAPAKITILLRSRFRDQAR	195
Rhizobium_tumorigenes WP_111220955.1	116	KLRIDTAASFDPDGVVDTEVHYRCERYLWOAGSPPPLEFRRVQGWQALINDGYVHEG IQLPAPAKITILLRSRFRDQAR	195
Dickeya_chrysanthemi WP_027713301.1	118	KDIAITTSFPDPCGVDTDELHYRCVRRHWSAGDPPPSLSFRVHEG W VALLNEGYLHNGVELVAPRDIATAMKSHCFDQAR	197
C58(T-DNA) Atu6011	309	RYGLSSMRPFPNPGIVDTITLVYQGLRYLWKAGQOPPKLEHRYVYSGWRAFLKDCGHEGDI VLASVAITQALKSGDIRAH	388
Ach5(T-DNA) X971_RS25520	309	RYGLSSMRPFPNPGIVDTITLVYQGVQYLYWKAGQOLPPKLEHRYVYNGWRAFLKDCGFYERDITVLASVAITQALKSGDIRAH	388
S4(T-DNA) AVI_RS25490	280	YTGINAMTKFPNPGIVDTITLYYRCRSYNNKAHSLPEALFNRVHKGWRTFLHACFDVGVAAFASEPTITTECLRLKNYEFA	359
AB2/73 I8E17_31260	196	DAWQAWLDSFRDISFYSALVTIFTGPPPPGRVPWKRPEDFELFGSLGIGSGGFLPVYQAAFTETILRLVINGYEDDQRMIM	275
Mesorhizobium_sp TIL83536.1	196	DAWQAWLDSFRDISFYSALVTIFTGPPPPGRVPWKRPEDFELFGSLGIGSGGFLPVYQAAFTETILRLVINGYEDDQRMIM	275
Mesorhizobium_loti WP_065005780.1	196	DAWQAWLDSFRDISFYSALVTIFTGPPPPGRVPWKRPEDFELFGSLGIGSGGFLPVYQAAFTETILRLVINGYEDDQRMIM	275
Rhizobium_tumorigenes WP_111220955.1	196	DAWQAWLDSFRDASFYSALVTIFTGPPPPGRVPWKRPEDFELFGSLGIGSGGFLPVYQAAFTETILRLVINGYEDDQRMIM	275
Dickeya_chrysanthemi WP_027713301.1	198	TAWQAWLDAFRDISFYSALVTIFTGPPPGSPWKRPEDFELFGSLGIGSGGFLPVYQAAFTETILRLVINGYEDDQRMIM	277
C58(T-DNA) Atu6011	389	DSWQIWLNRFGRESFESSGIERIFLCTHPGGETWSFPHDWDLEKLMIGSGGFGPVPFESCHIEILRLVINGYENQRMCP	468
Ach5(T-DNA) X971_RS25520	389	DSWQIWLNRFGRESFESSGIERIFLCTHPGGETWSFPHDWDLEKLMIGSGGFGPVPFESCHIEILRLVINGYENQRMCP	468
S4(T-DNA) AVI_RS25490	360	SLWQKWLDAFSSSETSSSGIERIERCAHPGGERKTRDQVDMELKEKLVGSGGFGPVPGCCCHIEILRLVINGYEDNVMLLI	439
AB2/73 I8E17_31260	276	GGISLLVKNRLAEQEFHGVSTQORVNRNGHVSRIYKQDGOILMGCATGOVEPFD RVI VTTSNRAMELAHRLTADCTFLTNEV	355
Mesorhizobium_sp TIL83536.1	276	GGISLLVKNRLAEQELNGVSLRQRVRYGHVSRIYKQGGQILVTCAGQVVPFD RVI VTTSNRAMELAHRLTADCTFLTNEV	355
Mesorhizobium_loti WP_065005780.1	276	GGISLLVKNRLAEQELNGVSLRQRVRYGHVSRIYKQGGQILVTCAGQVVPFD RVI VTTSNRAMELAHRLTADCTFLTNEV	355
Rhizobium_tumorigenes WP_111220955.1	276	GGISLLVKNRLAEQEFHCLSLRQRVNRNGHVSIGSKQGGQILVTCAGQVVPFD RVI VTTSNRAMELAHRLTADCTFLTNEV	355
Dickeya_chrysanthemi WP_027713301.1	278	GGISLTAERLVSKTGDTCHSERICFNEIKRIYKENGSEIKLVSGKGQTYAFDRVIVTSSRTTMOIVHCLTCDTFLERDI	357
C58(T-DNA) Atu6011	469	EGISELPRRIATQVNGVSVSQRTHVOVRALEKEKTKIKIRLKSIGISELMDKVVTSGLANIQLRHCLTCDTNIFRAPV	548
Ach5(T-DNA) X971_RS25520	469	EGISELPRRIASEVNGVSVSQRICHVOVRATQKEKTKIKIRLKSIGISELMDKVVTSGLANIQLRHCLTCDTNIFQAPV	548
S4(T-DNA) AVI_RS25490	440	DGIEEIPRRIISQKVGYSYSDRIITHKVEKEIIRTESGISLAIGEMHATFD RVI VTSGETNIO LRHLLTNDSEFSYDV	519
AB2/73 I8E17_31260	356	LRAVRRTHLTGSSKLFMLTSEKFWLKGVLPTTILSDGLARGVYCLDYQPPDPDGKGVVLLSYTWEDDANKMLSILDKKER	435
Mesorhizobium_sp TIL83536.1	356	LRAVRRTHLTGSSKLFMLTENKFWLKGVLPTTILSDGLARGVYCLDYQPPDPDGKGVVLLSYTWEDDANKMLSILDKKER	435
Mesorhizobium_loti WP_065005780.1	356	LRAVRRTHLTGSSKLFMLTENKFWLKGVLPTTILSDGLARGVYCLDYQPPDPDGKGVVLLSYTWEDDANKMLSILDKKER	435
Rhizobium_tumorigenes WP_111220955.1	356	LRAVRRTHLTGSSKLFMLTENKFWLKEGLPTTILSDGLARGVYCLDYQPPDPDGKGVVLLSYTWEDDANKMLSILDKKER	435
Dickeya_chrysanthemi WP_027713301.1	358	SRVKEITHLTGSSKLFMLTQNKFWLKHSPATIQSDGFIRGVYCLDYEPDPDGEGVVLLSYTWEDDANKLSIPDKKOR	437
C58(T-DNA) Atu6011	549	NQAVDNSHMTGSSKLEFLLTERKFWLDHILPSCVLMDCIATAKVYCLDYEPDPDNGKGLVLLSYTWEDDASHKLLAVPDKKER	628
Ach5(T-DNA) X971_RS25520	549	NQAVDNSHMTGSSKLELMTERKFWLDHILPSCVLMDCIATAKVYCLDYEPDPDNGKGLVLLSYTWEDDASHKLLAVPDKKER	628
S4(T-DNA) AVI_RS25490	520	NQAIENSHMTGSSKLEFVLTQNKFKAELESCILITGVAKAVYCLDYEPDPDPSGKGLVLLSYTWEDDASHKLLTF-DKGER	598
AB2/73 I8E17_31260	436	CQRLVDDLATISADFAHRLVPANGDYERHVLQHDWLMDPYSVGAFKLNYPGEDIYSORLFFQFATAKRPEEDTGLYLACG	515
Mesorhizobium_sp TIL83536.1	436	CQRLVDDLATISADFAHRLVPANGDYERHVLQHDWLMDPYSVGAFKLNYPGEDIYSERLFFQFATAKRPEEDTGLYLACG	515
Mesorhizobium_loti WP_065005780.1	436	CQRLVDDLATISADFAHRLVPANGDYERHVLQHDWLMDPYSVGAFKLNYPGEDIYSERLFFQFATAKRPEEDTGLYLACG	515
Rhizobium_tumorigenes WP_111220955.1	436	CQRLVDDLATVCCDFAHRLVPANGDYERHVLQHDWLMDPYAVGAFKLNYPGEDIYSORLFFQFATAKRPEEDTGLYLACG	515
Dickeya_chrysanthemi WP_027713301.1	438	CQRLVDDLAKTHPEFAHRLIPADGDYERVLEHDLWLDPYSAGAFKLNYPGEDIYSORLFFQFKNANTPEKDTGLYLACG	517
C58(T-DNA) Atu6011	629	FCILLRDAISRFPAPAOHLVPACADYDQNVVQHDWLTDENAGGAFKLNRRGEDFYSEELFFQALDM---TNDTG VYLACG	705
Ach5(T-DNA) X971_RS25520	629	LCILLRDAISRFPAPAOHLVPACADYDQNVVQHDWLTDENAGGAFKLNRRGEDFYSEELFFQALDT---ANDTG VYLACG	705
S4(T-DNA) AVI_RS25490	599	FCILKRDLAKSYERFADLLEPADGDYDNNILQHDWLTDPYAGGAFKLNRRCEDVYSKRLFFQPLRL-NGEPDGRVCLACG	677
AB2/73 I8E17_31260	516	GCSFTGGWVEGALQTCGLNAACAVIRSCGGQLLGNPIDEMTSAYRY----	561
Mesorhizobium_sp TIL83536.1	516	GCSFTGGWVEGAVQTCGLNAACAVIRSSGGQLLGNPIDSMNSAYRY----	561
Mesorhizobium_loti WP_065005780.1	516	GCSFTGGWVEGAVQTCGLNAACAVIRSSGGQLLGNPIDSMNSAYRY----	561
Rhizobium_tumorigenes WP_111220955.1	516	GCSFTGGWVEGAVQTCGLNAACAVIRSCGGQLLGNPIDEMDSAYRY----	561
Dickeya_chrysanthemi WP_027713301.1	518	GCSFTGGWVEGAMQTAALNSACAVIRSSGGALLGNPIDDMHSAYCY----	563
C58(T-DNA) Atu6011	706	SCSFTGGWVEGALQTCACNAVCAITHCNCGGILAKDNPLEHSWKRYNNRNN	755
Ach5(T-DNA) X971_RS25520	706	SCSFTGGWVEGALQTCACNAVCAITHCNCGGILAKDNPLEHSWKRYNNRNN	755
S4(T-DNA) AVI_RS25490	678	SCSFSGGWVEGALQTCACNAAMATIRDAGGLISGDNPLTNEFVNYHY----	723