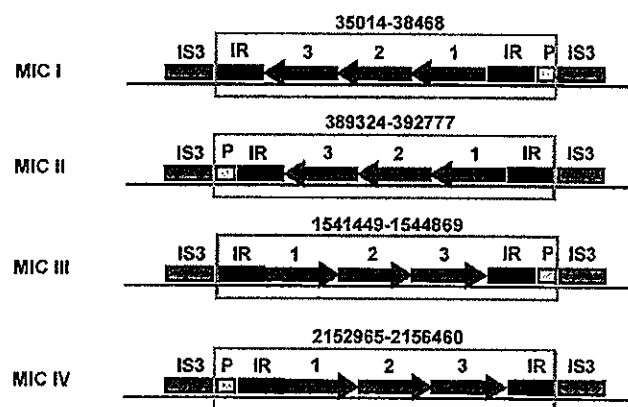
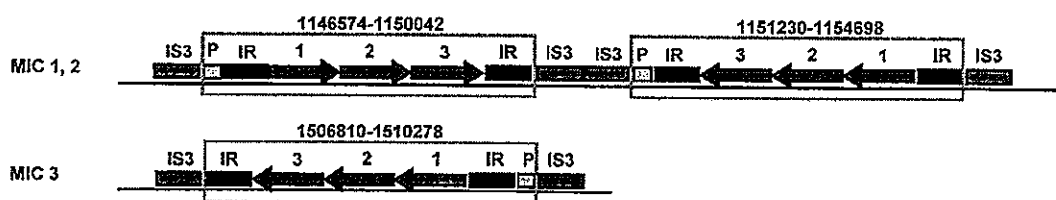


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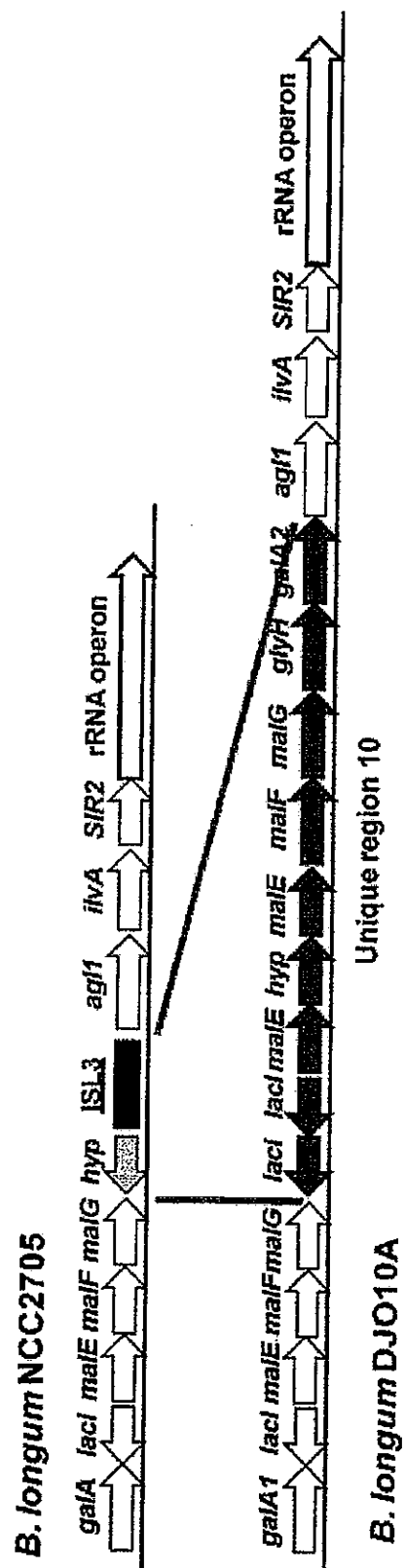


B



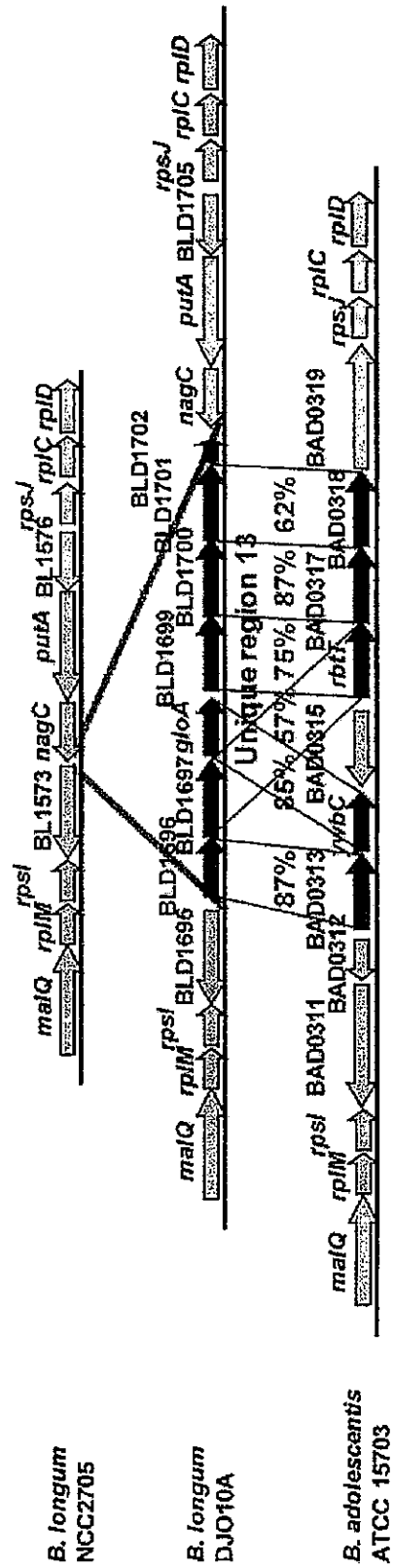
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Fig. 3



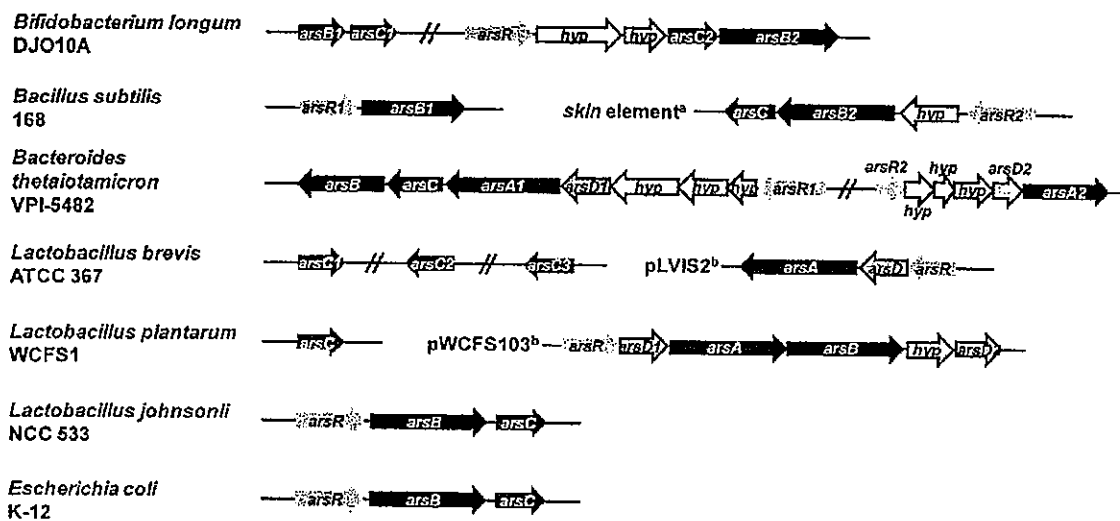
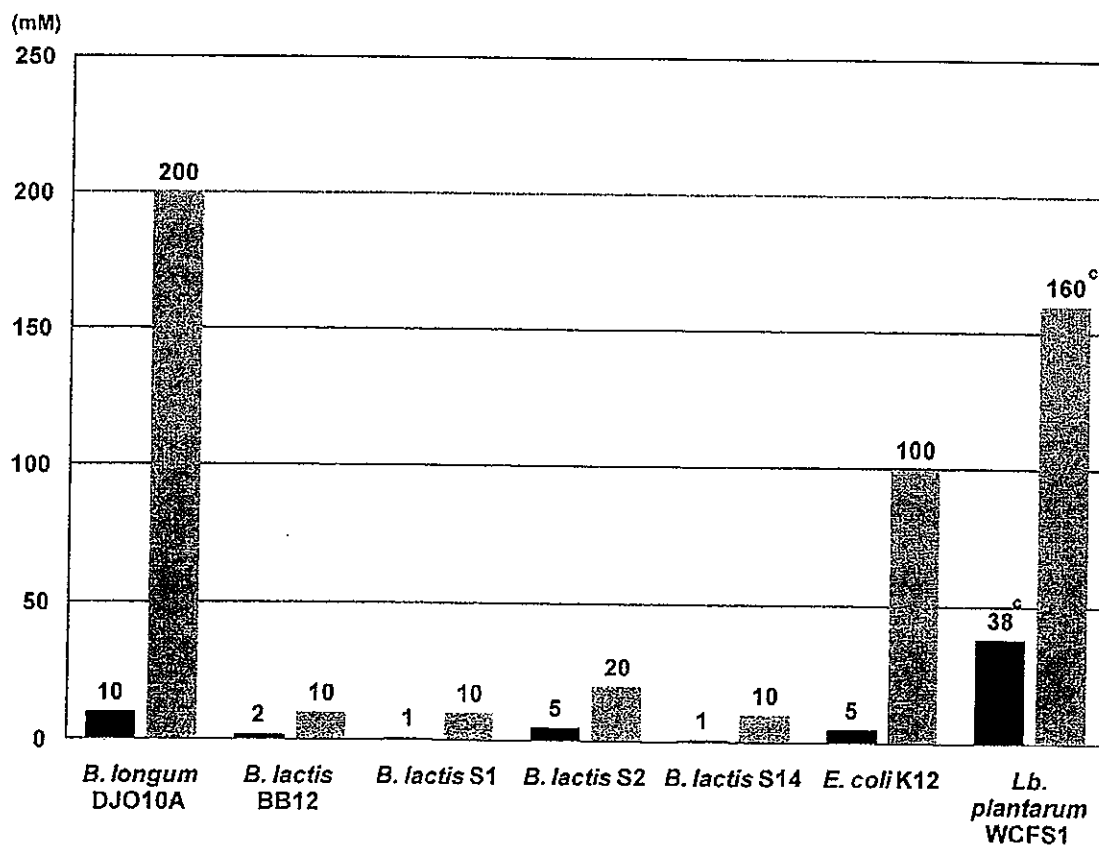
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Fig. 4



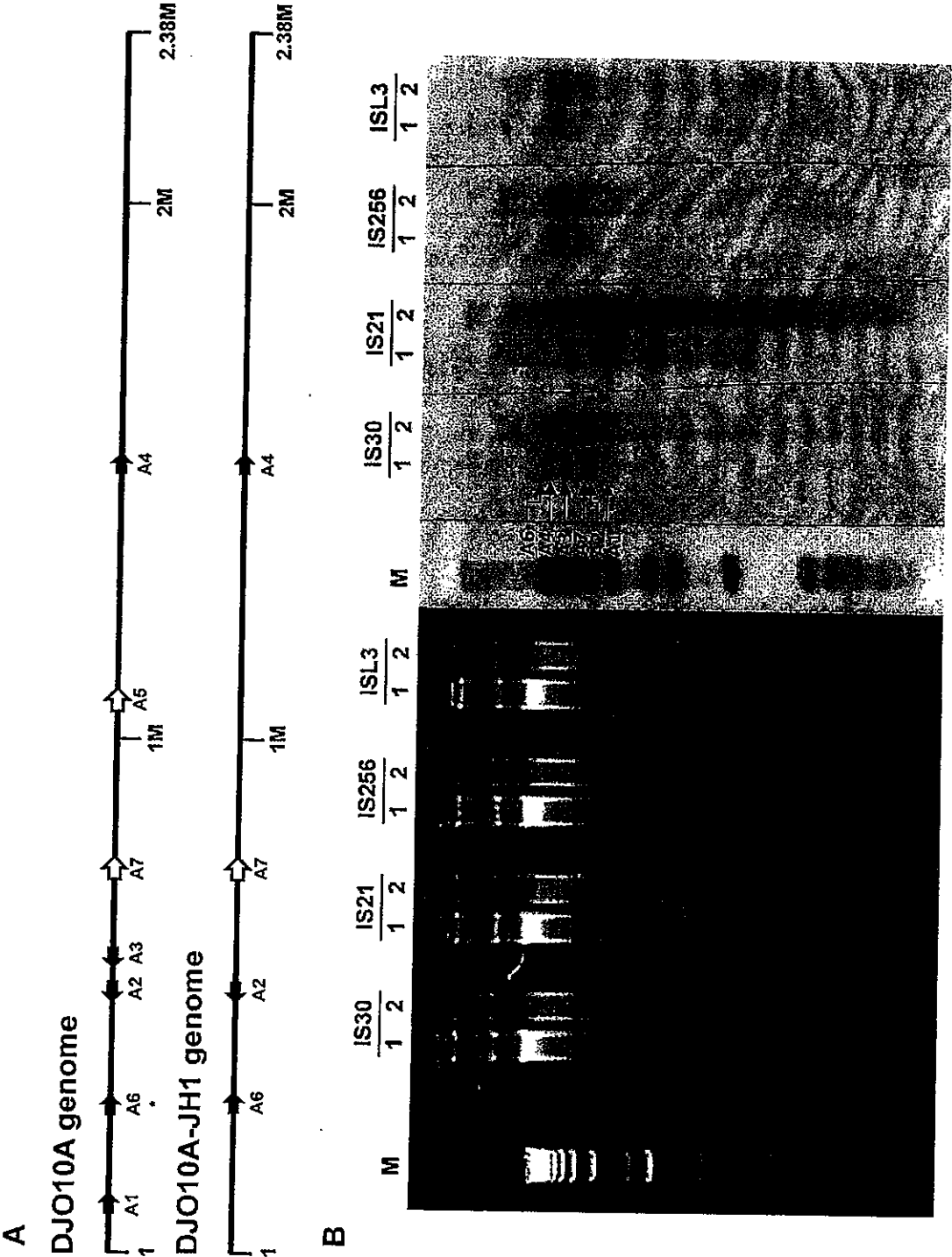
5/21

Fig. 5

A**B**

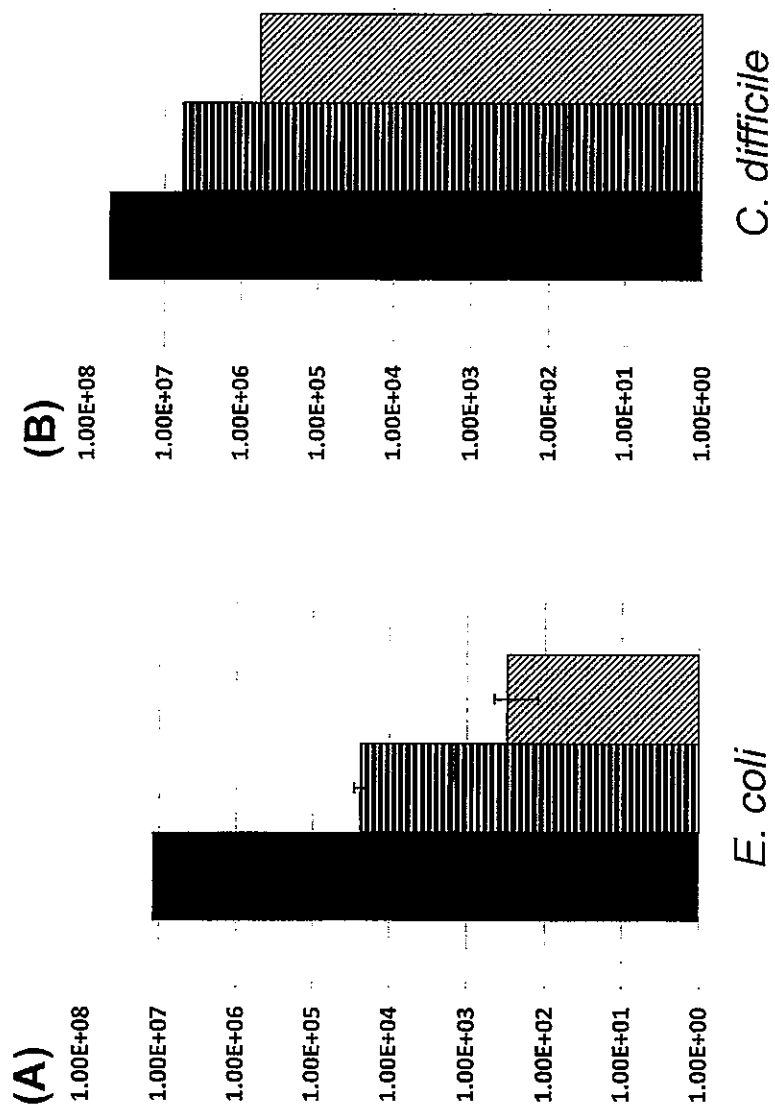
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Fig. 7



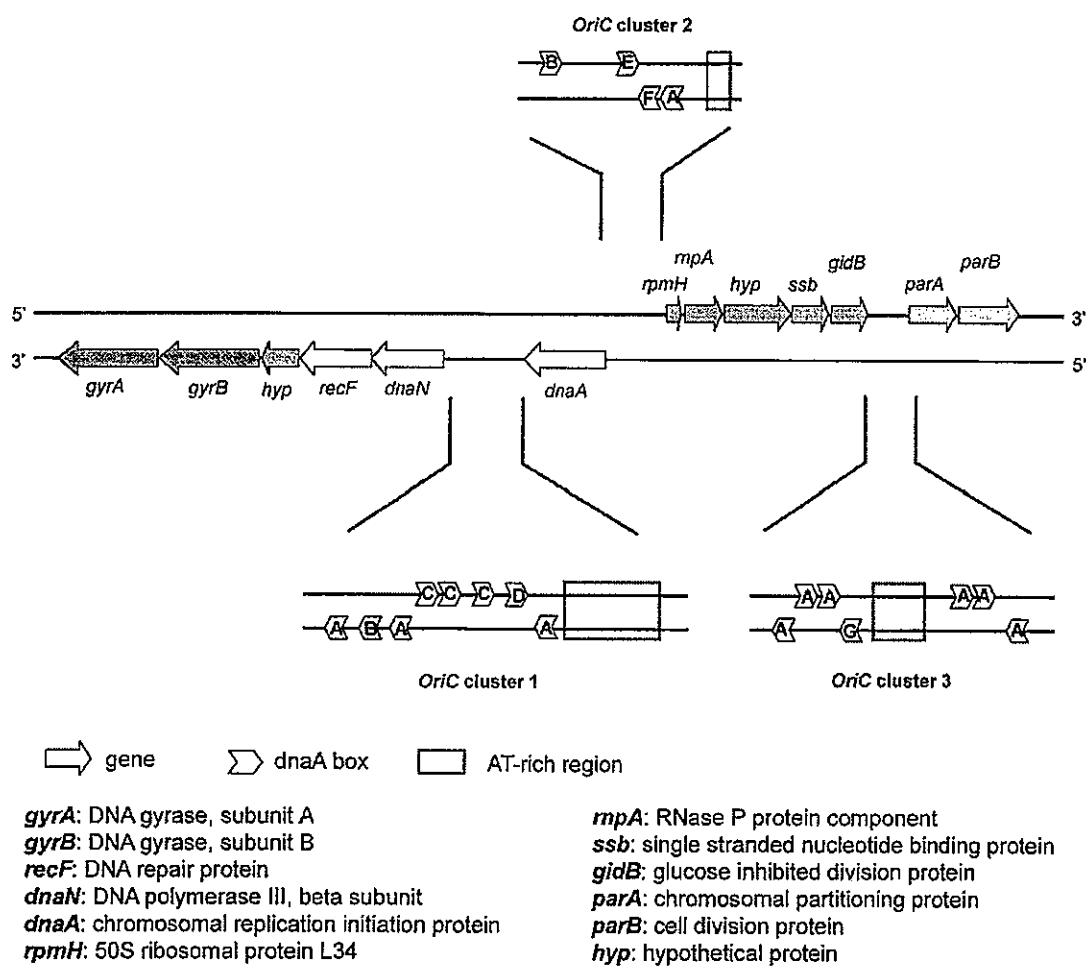
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Fig. 8



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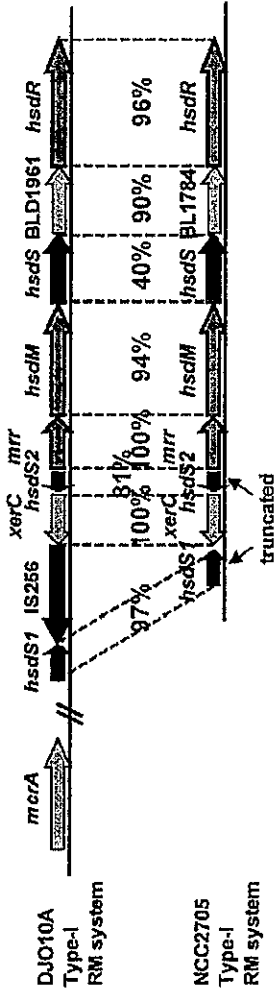
Fig. 9



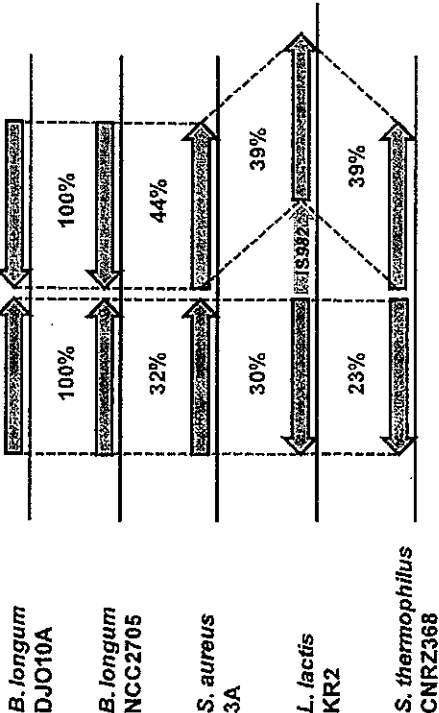
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Fig. 10

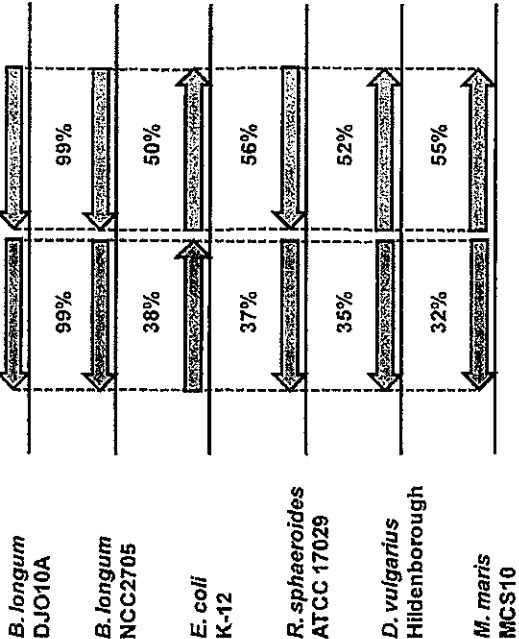
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B

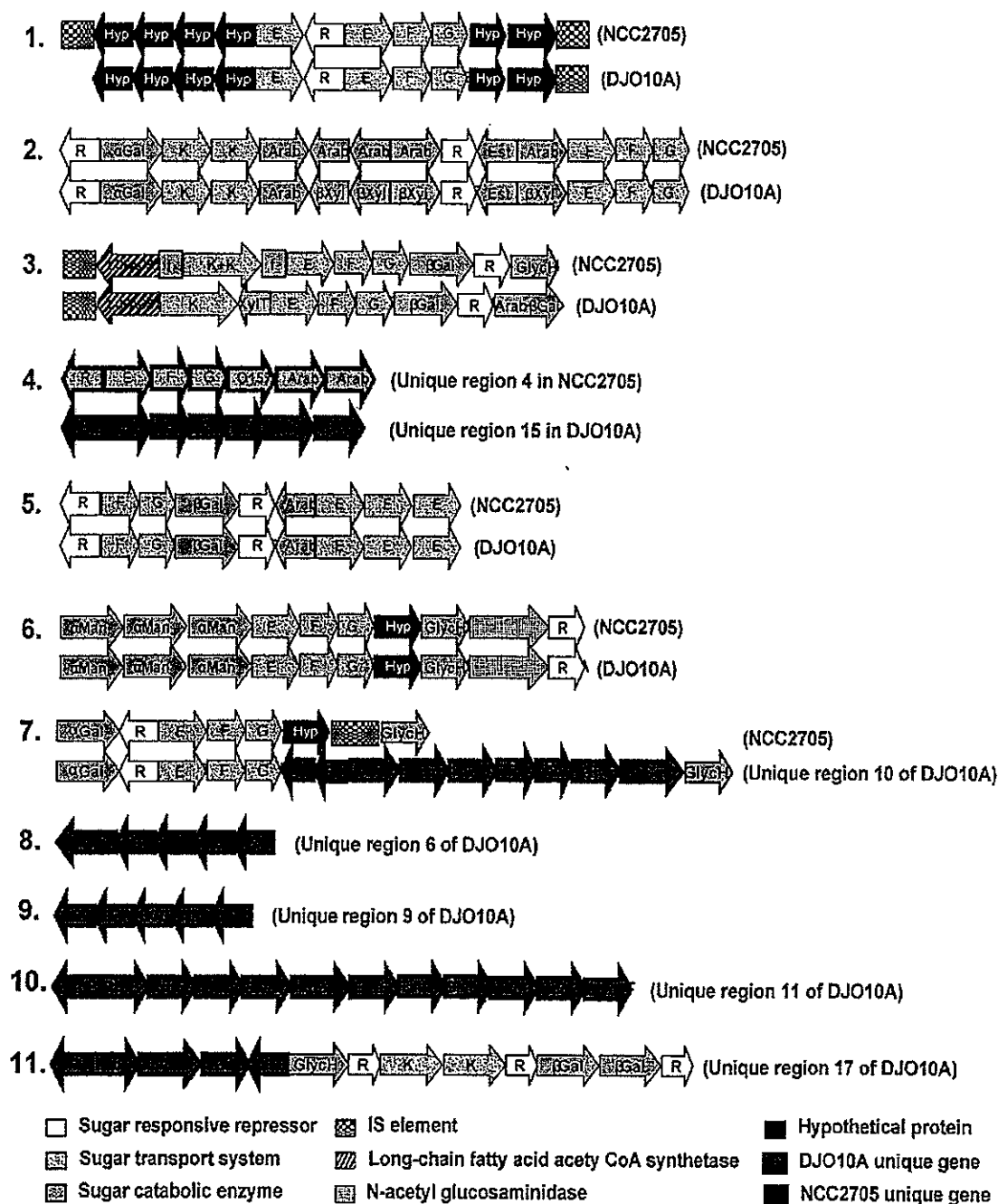


C



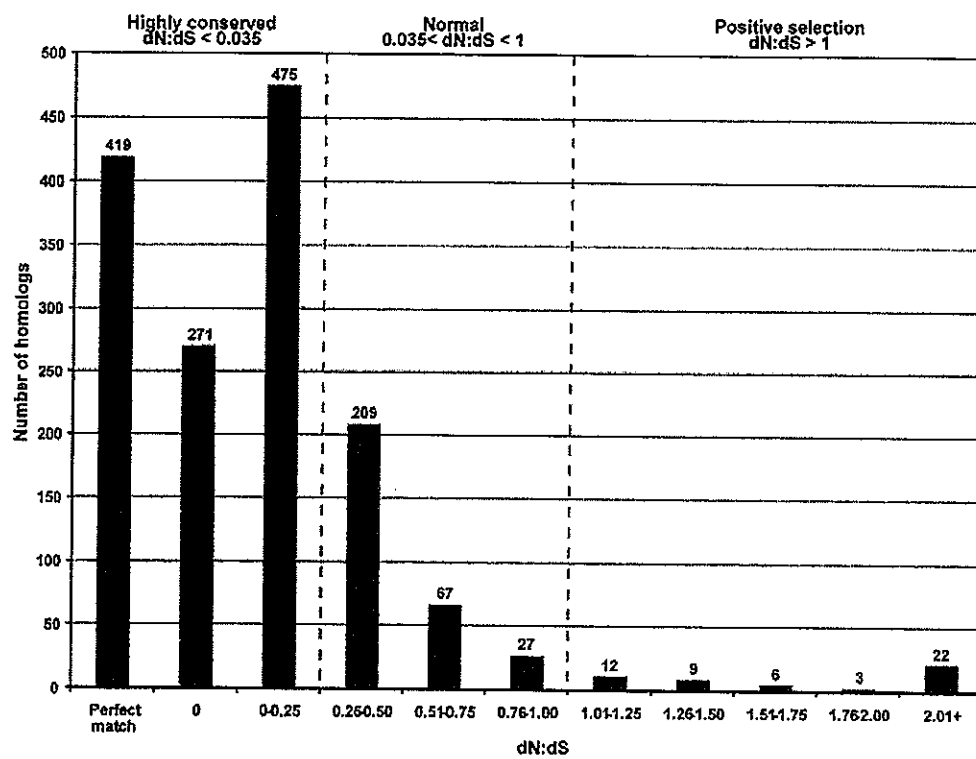
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Fig. 11



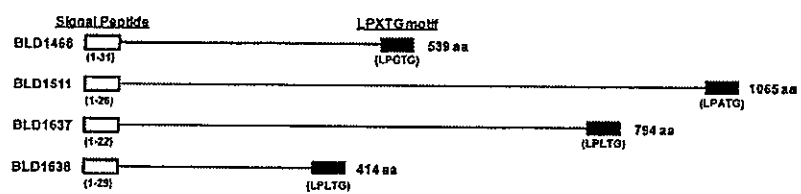
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Fig. 12



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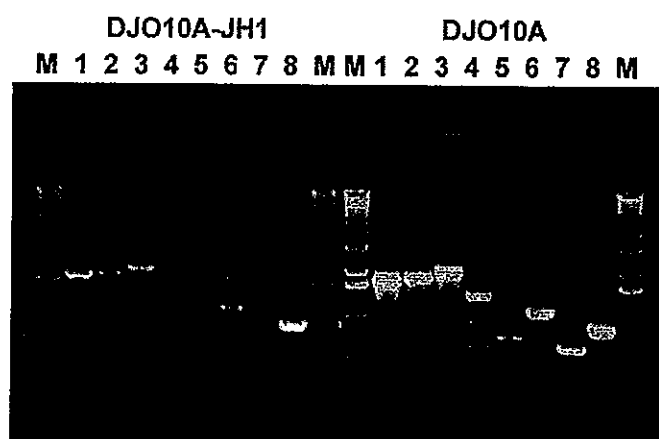
Fig. 13



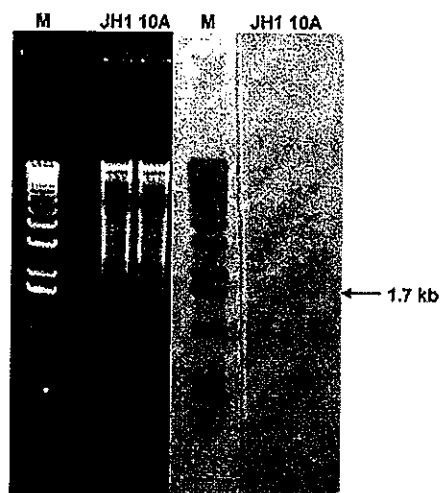
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Fig. 14

A

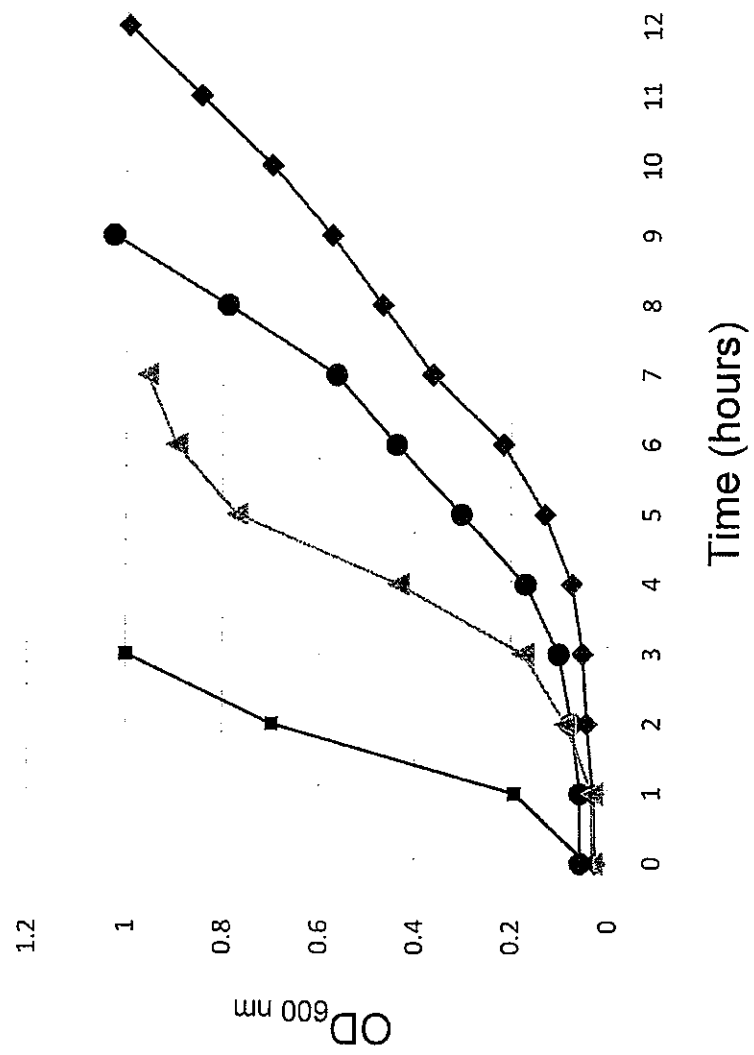


B



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Fig. 15



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Fig. 16

SEQ ID NO:23

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Fig. 16 (continued)

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Fig. 16 (continued)

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1988881 gtcggcttgg acgccatggt cagtgaacgc ggcatgaacc tgtccggcgg ccaacggcag
1988941 aaggtcgcca tcgcgcgtgc ggtcgtcgga agaccggact tcctacttat ggacgaaccc
1989001 accagtgtc tcggacaacga taccgagcga catgtcatga cggcggttgc cgactccgac
1989061 aatgcgtgca tcgtcgtggc gcacagactc gcacgattc gggatttcga ccgcatccat
1989121 gtcacgtgac atgggcagat cgtcgaatcc ggtacgcatg acgaactgct gcaggccggc
1989181 ggattgtatt cgcggtgtga ccggcaggag tgagtgtccc cttacacctt tacgccttta
1989241 aacccttacc ctttacacct tatcccttac accctcggct catgaggccc ccggtattca
1989301 atttgtaagc gcaacgcttg tggtcgggct ggctgccttc gattgtagct tggcgatctc
1989361 ctccgtcccat acctcgttgg gcgttttcta gccgaggagc ttcattgggg tgctggtgat
1989421 ctcccccagc atcgcgtcga ggtcctcctg ggccaagtcc tcgaaccggg ttcctttggg
1989481 cagatagcgg cggatccctgc cgttcctggt ctcggttgcg ccacgctgcc aggaactgta
1989541 cgggtcggcg aagtacgtga gcatgccag cgcctcgtcc accagcatgt gcaggctcgc
1989601 ctccgtgccg ttgtcccacg tgcggtcgac gcgcgcggcc ggcgggatgt ccttgaagat
1989661 ctctgattcg gccctggccg ttgcggacgc gctcttgcg tcgacgagcc gggcgaacag
1989721 cctgcggctc ctgcgctcca cctgcgtggt catgcagcgc ctcgacggcg cggcgccgac
1989781 caccgtgtcc gactgtattt cgtcaagtcg tggtttcgtg ttttttttcc ttttttttcc
1989841 ggggttaggc agttgcatgc attttcctta tttttccggt tgcgcggagg tgcctctgcc
1989901 gaacatgagg gcctcactga cgcgcgggct ctggccggtg aactcgagga gccgcccggtg
1989961 gtgcacgatg cggtcgatga tcgctgcggc gagtttgcg tccgcgaaga ccgtgccccca
1990021 tttactgaac tcgatgttcg ttgtgaatat gatgtccgt ctttcgtagc tgcccgcgat
1990081 gatctggtag agcaggcgcg ccccgctgat gtcgaagggt acgtagccga actcgtccag
1990141 tatgatcagg tcggcacggc cgatgtcccg gagcatcgtc tcgagcgtgc cgtcgcgttt
1990201 ggccttgccc agctggagga cgagctcggc ggtctgatgg aaccgcacgc ccagccccat
1990261 gtcgatcgcc ttcattgccc gcccgatcgc gagatgtgtc tttccgcgcc cggctctgcc
1990321 gtagaacacc aggtcctgcg cgcgcgggat gaaaccgagc cctaggagct catcgagcat
1990381 gtagccgtcg gggagcctga cgttcgtgaa gtcgtagccg tcgagaccct tgacgacggg
1990441 gaaccgggcg cggcgcgagg gcctgtcgtg cttcgcgcgt tccctgttcg ccagttccgt
1990501 gtcgagcagg cgggtggacg cgtcgacctg gcggggcggt gcccgccgg cgaattcgtc
1990561 gatgtcggc ttggagatga acagcttgcg gcccttctcg tagagccctt cgtccgtctt
1990621 cgtgttcata gcccgccctt ctgcacggcg acgtccgcgg tgaacgcgat gtcgtattca
1990681 ctcagatccg gcctgtcate gtcgtattcg ataccgcca cgcctcggc gagcctggcc
1990741 gcgagcagtg tgacaccggc gcggtccgcc ccgcccgtcg attcgaggat ggaaagcatc
1990801 gcctcgaccg cgttcgccc cccgattcc ctgtcaacgc gtttgagggt ctgcagcgcc
1990861 tcgttgcg

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SEQ ID NO:2

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MFVRKTSIMCAMGNPNEIRLAIVDNDDEFVLMGLAAFLSRHLPNVRLAWKANTGTDALLEYATDPA
NEADILLVDMSELDMPGDMVCREIRSRNRMLPLLAVTSFSLIRYARRAAEGGAQGIVSKADFP
LCKAVKLVS DGH TL CVRVGGETIGFEDVDAAYHRLVRLPVNRIERLSEREKYAMELYSQSYKPT
QIARMMDVSA GTV KY L DRVQNKHLHLSRAELIAYWRRERW

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SEQ ID NO:4

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MVRRLAMETILVVRKKCLGVSKKNLVLISIVAMTCLAACIAEWILDSPELNDGFIRIVYMLAVS
MLPLYVPATWGIIVIAFLNELMPCLSQCDSESWGVLSLAIQGYAAVWWNGVTATVLLSISALL
NYAIYRENSEFGSFDGSINLVLLWFVFLGLVLRQRNRLEKKKELEKKAIEIVRYNLQLAEGMH
DAMSGELTRMLVIVQEGIDASKEEELKRWRKLQNGINKVFQDLHSMNYLSDDDHKQDEVFHV
LAEHIQATLSESDRRLHDKGFCGHSSLRGVSSAMLSWNQIIVNLLREIYTNIERYADKSEYSV
IVTFSNNAVDIVQVKNCRQKSRRCVTLGARKGLSIYSRLISGQGGFIRYEKDGEEWSFYCMLPL
LT

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Fig. 16 (continued)

SEQ ID NO:6

MSINEKSIVGESFEDLSAADMAMLTGRNDDGVAPASLSFAVSVLSVSFSACSVTVVTRLASCGN
CK

SEQ ID NO:8

MKAILFRDCKACFQSFKNWGMVLIIMVTAIFVEMVASGAGILDPFTWAVFFGPFPIYSSCSVMV
SILYQDFRDGLFELYIQSGRSYWSYCWKCLFPVILTVISVLLNLAFMRVLSSGFQITAGADDA
IGALIVSVLGTIVCSLGAMPVMVYVSRNSDPTMAQLVLVLIATLLQLAYTLVVVNVMPLCLFSVG
YVVLVVVAIGISTGVFSRYFINTNIEL

SEQ ID NO:10

MTSMVAYVASRNPQSQTLRSVRLIQDAVSGNIDAEWILTTPNDTTILPSDGTASEFSTGVDHIE
LNLGDD SARVKKAIERCDYLILGSPTYGHNVS GDMKILMDRLTYWGHLFHLAGKPGMAMVSATT
NGFLEV GELMERFMESLGIIIDETAYHTTFTPFDEAMADQTAAAIVRALNTRLRGVVPETSERQ
ELAFQSYKRDIARRDGSDAESRYWRERGMFDCATFHEYVETRRLPESVHAER

SEQ ID NO:12

MAATAMPDALRQYRASHAEDMLSATVEWKNRRNPLRDEYQGIADALGDDASVVETVIADRERK
LSGHVEPAWSVELQTI LNRYDSEEERVERTGYATAFAPFVAYVKAELQAHMSACSLPMNDERLI
EQCLSAYVERLLSIGLKT VVWELHVARQAGSLGDGDAKRQLRRYFELLATDEYRGHMYAKYPVL
LRFVTQTTVHYIDFVKEMLD RVSMDRDELASFAGVGDDFRLEDMSIDRGDAHDGGRAVAMLTIG
GRKIVYKPRDLHIHEL FAGLVRRCERTKGFLPMRVSDVLT KSGYAYEEFVEHGT CEDARQVERY
YTRYGQLLGLVWLLHGDDMHENIIASGEYPMVDFETIATNHVTMDMPDGT DADIRVSTILRD
SLASSCLLPAKTAMSADGTSVDISAFETGEQTMPGIVASPVGLDSADAHYERNAVTF SKDGA
VTLDDÄVVDPYHYKRQILQGFRNTVAAAMTIDADEWDAMLSGEDTTVRVLVRNTSAYARFADFIH
HPSALKDMLDVEAILENLYVYPFRDKRIFASEYRQMLAGDIPMFTAQLTGHD LHAPDGT TIDGV
CERSVRERVLD TIGHLDEQAALQSRIIRNALRMEPGMEDAHPTASVSSDTDAEHYPIELGTRIA
DTAILQETDGT VSWLTANRSDTMAADKTVDERYEPGAPTSGLYDGMAGTGMFAELYRTHDER
WRDLCTRMMRSLMRKDRGITYSGFTSGLSRSYCALRMANAGITSPEARRCMTQTVRMLPAYID
DMLPKLLQRDN PQPSFHL DYL TGAGSSIMLYLRLYDV FHD MRIVEQTSRLGRTVIRAFPETQRN
ADESDMPYPTGA AHGLEGMAVAFWKLYAATGNREFAEFARMLWRKSDARRSGAKQEDAGKWCR
GKVGVLWARNELAATAGADGERFFEDENGRAFPDKADITALLGNADWDDDG VCHGRCGMIDTLI
SIGNANGDEWYRMQAQRLMDDMIAQARSSGRFRLRQSREFVDLSYFQGPVG VAYTMLRLNDPST
PSILAETR

SEQ ID NO:14

MTADHINHADR TDNGEHAI IAVEHVTFGYKKKQTVLEDIDFTVPQGQSLAILGYNGVGKTTLFR
LIVGLLRPREGR CVIDRRRVPSMRDV FQMTENGNLVGTMTVRDNIHFRQLLFRSGKGIADGGHT
VDSKRLEDEPLVRAFELEGLD KKV AELSTGLRKRVGIVAGMLFDPHVIMLDEPSNAIDPITRS
LLVDYVNQLRADERTLLTVTHDLEYCWNVADRI IILDDKHLVKDMMLAEFDDYEAF TKASTLGR
DRTHVDFGLPARGRQA

SEQ ID NO:16

MRSWRRHRVPFIEQGEHSECGLAAAAMILAAFGHPVTMDELRRRYGAPRGGLSLANIVTVLSDS
GIRVRAVTTPSAEALKTVMTPCILHWDDNH FVVDLHYAYGRFRIADPANGRHAYTPGELAAHCS
GAVLI PQPTNDGCATIPIRPRSGTVSILTGFLRRNMPAIGLSLLFSLVVQGLTLIVPAGTG YMV

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Fig. 16 (continued)

DHGSLAAQSGFPPLVATMLLASLLVYYAVGALNTVMLTRVQVRFGRYLSRRYMTGVLDREFPFF
VNRSGGDLIYRANLVMVVEQIVTGSLPSTVVSMVFLVVYLIMMIAYSVPLTMLTLTVCAAVLVV
SVIYSLRNRTLVERATVAQADVQRAFIETFSGIETVKSINLESHCYDRWSARLGAQLDYQTRQG
RLSALLSSLSSALVFVLPLCVVAFGMTFVGRGTLALGAVVGFMSLASAFVTPFSGIVGVISQIM
AFATYMRKICEMIPAGEGGGASLECDPEPGGEPGDVGLGDGGRSACGGPSGDESGDGILERLHAT
GVGYSYTAFDAPVLSDVDCDIRKGDKIAIVGPTGSGKSTLLKLLAGLIEPVCCTVTINGGGCRI
YDADSRWKAGRLAYVHQESTVFNETLRDNITLHRPWLTDDDIVRACEVAGINEGMDPVVGLDA
MVSEGMNLSGGQRQKVAIARAVVGRPDFLLMDEPTSALDNDTERHVM TALLDSDNACIVVAHR
LASIRDFDRIHVMDHGGQIVESGTHDELLQAGGLYSRLYRQE