

Gblocks 0.91b Results

Number of sequences: 56

Alignment assumed to be: Protein

New number of positions: 201

	10	20	30	40	50	60
P_arsenaticum	-----+-----+-----+-----+-----+-----+					
P_oguniense	-----+-----+-----+-----+-----+-----+					
P_aerophilum	-----+-----+-----+-----+-----+-----+					
P_islandicum	-----+-----+-----+-----+-----+-----+					
T_neutrophilus	-----+-----+-----+-----+-----+-----+					
P_calidifontis	-----+-----+-----+-----+-----+-----+					
T_tenax	-----+-----+-----+-----+-----+-----+					
V_souniana	-----+-----+-----+-----+-----+-----+					
V_distributa	-----+-----+-----+-----+-----+-----+					
T_modestius	-----+-----+-----+-----+-----+-----+					
C_maquilingensi	-----+-----+-----+-----+-----+-----+					
K_cryptofilum	-----+-----+-----+-----+-----+-----+					
N_equitans	-----+-----+-----+-----+-----+-----+					
M_kandleri	-----+-----+-----+-----+-----+-----+					
M_janaschii	-----+-----+-----+-----+-----+-----+					
Thermofilum	-----+-----+-----+-----+-----+-----+					
S_hellenicus	-----+-----+-----+-----+-----+-----+					
S_marinus	-----+-----+-----+-----+-----+-----+					
D_mucosus	-----+-----+-----+-----+-----+-----+					
D_mobilis	-----+-----+-----+-----+-----+-----+					
D_amylolyticus	-----+-----+-----+-----+-----+-----+					
S_zilligii	-----+-----+-----+-----+-----+-----+					
T_aggregans	-----+-----+-----+-----+-----+-----+					
I_pacificus	-----+-----+-----+-----+-----+-----+					
I_islandicus	-----+-----+-----+-----+-----+-----+					
I_hospitalis	-----+-----+-----+-----+-----+-----+					
C_noboribetus	-----+-----+-----+-----+-----+-----+					
A_aceticus	-----+-----+-----+-----+-----+-----+					
C_lagunuensis	-----+-----+-----+-----+-----+-----+					
A_ Pernix	-----+-----+-----+-----+-----+-----+					
A_camini	-----+-----+-----+-----+-----+-----+					
S_hydrogenophil	-----+-----+-----+-----+-----+-----+					
T_maritimus	-----+-----+-----+-----+-----+-----+					
P_brockii	-----+-----+-----+-----+-----+-----+					
P_occultum	-----+-----+-----+-----+-----+-----+					
P_abyssi	-----+-----+-----+-----+-----+-----+					
H_butylicus	-----+-----+-----+-----+-----+-----+					
P_fumarii	-----+-----+-----+-----+-----+-----+					
A_ambivalens	-----+-----+-----+-----+-----+-----+					
A_infernus	-----+-----+-----+-----+-----+-----+					
A_brierleyi	-----+-----+-----+-----+-----+-----+					
S_tokodaii	-----+-----+-----+-----+-----+-----+					
S_ohwakuensis	-----+-----+-----+-----+-----+-----+					
S_acidocaldarii	-----+-----+-----+-----+-----+-----+					
S_azoricus	-----+-----+-----+-----+-----+-----+					
S_shibatae	-----+-----+-----+-----+-----+-----+					
S_solfataricus	-----+-----+-----+-----+-----+-----+					
M_haknonensis	-----+-----+-----+-----+-----+-----+					
M_sedula	-----+-----+-----+-----+-----+-----+					
S_metallicus	-----+-----+-----+-----+-----+-----+					
I_aggregans	-----+-----+-----+-----+-----+-----+					
APKG5E24	-----+-----+-----+-----+-----+-----+					
APKG8G2	-----+-----+-----+-----+-----+-----+					
N_maritimus	-----+-----+-----+-----+-----+-----+					
APKG808	-----+-----+-----+-----+-----+-----+					
C_symbiosum	-----+-----+-----+-----+-----+-----+					

[illegible]

	130	140	150	160	170	180
P_arsenaticum	KVYVAVAKFHGDVDEERLRAVLREFQGEIYQKPPLRSAVKRQLRTRRVFSLELLELEG--					
P_oguniense	KVYVAVAKFHGDVDEERLRAVLREFQGEIYQKPPLRSAVKRQLRTRRVFSLELLELEG--					
P_aerophilum	KVYVAVAKFHGDVDEDKLRAVLQEFQGVYIYQKPPLRSAVKRQLRTRRVYSLDLELDG--					
P_islandicum	KVYVAVAKFHGDVDEEKLKAVLNEFQGVYIYQKPPLRSSVKRQLRTRHVYSLELLELDG--					
T_neutrophilus	KVYVAVAKFHGDVDEGKLRAVLGEFQGIYQRPPLRSVAVKRQLRTRQVYSIELLELDG--					
P_calidifontis	KVYIYAVAKFHGDVDENLRRVLQELQGEIYQKPPLRSAVKRQLRTRRVYSLELLELDG--					
T_tenax	KTYVAVAKFHGDVDEAKLREVLAYFTGAIYQRPPLRSVAVKRQLRVRHVYSLELLELDG--					
V_souniana	KEYIMVMKLHGDVDDGKLRAVLREFTGAIYQRPPLRSVAVKRQLRVKHVYELELLERD--					
V_distributa	KEYIMVMKLHGDVDDEKLRAVLREFTGAIYQRPPLRSVAVKRQLRVKHVYELELLERD--					
Thermofilum	KEYIAVMTLHGDASDERIREVLAEFTGEIYQRPPLRSVAVKRQLRTRRVYSLKMLERD--					
C_maquilingensi	KEYVGVMLLHSTVDQERVKAVFREFTGKIYQRPPLKSAVKRRIRVKTIVYSLDIMEFDG--					
K_cryptofilum	KEYVGTLYLHGDVPIDELKGALDKFTGPIFQRPPLRSVAVKRSLRVRRVYSIELLSSEG--					
N_equitans	KEYVALMHLHKEVSEKDIIKVMSEKFGVTIIQTTPPLRSVAVKKRPRKKKVYCIKIIIEIDG--					
M_kandleri	KEYVTIMHLHGDVDEEELERVVKEFEGTILQRPPLRSVAVKRRVRPKKIYYIDILEIDG--					
M_janaschii	KEYVCLMHLHRDASEEDILRVFKEFTGRIYQRPPLKAAVKKRRLIRKIHIELELLDKDG--					
S_hellenicus	KEYVCMVQLHGDVPERLRRVSMFKGRIYQRPPLRSVAVKREVIRIQIYDIRLLEFNE--					
S_marinus	KEYVMVIQLHAPVDNDRLRKVLKYFTGVIYQRPPLRSSVKRVIRTRRIHYIDLLEHS--D					
D_mucosus	KEYVMVIQLHGDVAEQDLRRVAGYFRGEIYQRPPLRSSVKRAIRVRRRIHEIEVLEVR--G					
D_mobilis	KEYVMVIQLHGDVAEQDLRRVAGYFRGEIYQRPPLRSSVKRAIRVRRRIHEIEVLEVR--G					
D_amylolyticus	KEYVMVIQLHGDARESSVKMVVEYFKGDIYQKPPLRSSVKRSIRVRRRIYEIELEIR--D					
S_zilligii	KEYVMVVLHDLVERKKVEEVVEYFKGDIYQRPPLRSSVKRSIRVKTIIYEIEILDVQ--D					
T_aggregans	KEYVMVIQFHGDVEIGKLVEALKYFTGEIYQRPPLRSSVKRVLRTRRIHEIEILLDFK--D					
I_pacificus	KEYVMVIQFHDAVKEQDVLENLKYLVGEIYQRPPLRSSVKRQLRTKKVYYYIHLIEFYPER					
I_islandicus	KEYVMVIQFHDAFNEKDVLENLKYLVGEIYQRPPLRSSVKRQLRTKKVYYYIHLIEFYPER					
I_hospitalis	KEYVMVIQFHDAVKEEEVLENLKYLVGEIYQRPPLRSSVKRQLRTKKVYYYIHLIEFWPER					
C_noboribetus	KAYVCVMQLHGDVSEERLSDVAKEFTGTIYQRPVRSNVKRALRTRRIFSLEVLEVRG--					
A_aceticus	KAYVCVMQLHGDVSEKKLREVAEEFTGTIYQRPVRSNVKRALRTRRIFSLEVLEVRG--					
C_lagunuensis	KTYVCVMQLHKDQVDELKRVINDFIGTIYQKPPIRSHVKRTLRLTRKIFNITINEIVD--					
A_pernix	KEYVCVMQLHRPVEEDRLREVLKLFEGEYIYQKPPLRSSVKRALRTRRVFRIELLETYG--					
A_camini	KEYVCVMQLHRPVEEGRLREVLRLFEGEYIYQKPPLRSSVKRALRTRRIFRIELLETYG--					
S_hydrogenophil	KEYVCVMQLHRPVEEERLREALRLFEGRIYQRPPLRSSVKRSLRVKRVDEIELELYDG--					
T_maritimus	KEYVCVMQLHAPVEEERLREVLNEFEGVIYQRPPLRSSVKRALRKKRVYKIELELYTG--					
P_brockii	KEYVCVMQLHRPVPEEELRRVLGMFVGEIYQRPPLRSSVKRSLRVKRIYEIELELYNG--					
P_occultum	KEYMCVMQLHRPVPEEELRRVLGMFVGEIYQRPPLRSSVKRSLRVKRIYEIELELYNG--					
P_abyssi	KEYTCVMQLHHPVPEQDLRRALFMFVGEIYQRPPLRSSVKRSLRTKKIYEIELELYNG--					
H_butylicus	KEYMCVMQLHRPVPEEELRRAINMFVGEIYQRPPLRSSVKRSLRLKKIYEIELELYNG--					
P_fumarii	KEYICVMQLHEPVVEEKKLLAEIKVFTSTIYQRPPLRSSVKRSLRTKTIYEIELELYTG--					
A_ambivalens	KEYICVMETHEKVDLSIVKKIAEEFKGTIYQRPVRSNVKRALRTRKVFDEIEVLEGGDD--					
A_infernus	KEYICVMETHEKVDLSIVKKIAEEFKGTIYQRPVRSNVKRALRTRKVFDEIEVLEGGDD--					
A_brierleyi	KEYICVMQVHCDIEKDLLKSIEKFKGKIYQRPVRSNVKRALRFRTVNEIELELETYN--					
S_tokodaii	KEYVCLMQVHCDNFIDELKQIISKFIGIYQKPPVRSNVKRRTRKKKIYDIEILDITDK--					
S_ohwakuensis	KEYVCLMQVHCDNFIDELKQLISKFIGIYQKPPVRSNVKRRTRKKKIYDIEILDITDK--					
S_acidocaldarii	KEYICLLQMHCNVDQKELKEIISQFVGEIYQKPPVRSNVKRRIRKRIYAIIDILDMQD--					
S_azoricus	KEYVCIMQVHCDYKMDLKEIVNQFVGEIYQRPVRSNVKRRIRKRIYAIIDILETEG--					
S_shibatae	KEYVCVMQVHCEYDKEELTKIISFGEIYQRPVRSNVKRRIRKRIYAIIDILETMDK--					
S_solfataricus	KEYVCVMQVHCEYNKEELAKIISSEFKGEIYQRPVRSNVKRRIRKRIYAIIDILETMDK--					
M_haknonensis	KEYICLMEVHCEFSDEKLREVSQFVGTIYQKPPVRSNVKRRIRKRIYAIIDILETMDK--					
M_sedula	KEYVCLMEVHCDQFEERLRAIAKEFVGTIYQKPPVRSNVKRRIRKRIYAIIDILETMDK--					
S_metallicus	KEYVCVMQVHSDFEKESLKSWMFKGKIYQRPVRSNVSRKLRTKRIYDIEVTEIED--					
I_aggregans	KEYVGMELHGDVEPEKVIETMKMFVGIYQRPPLRSSVKRSLRIRKRIYAIIDILETMDK--					
APKG5E24	KEYHALGRLHSLPSKEKLENILNEFCGDIYQKPPQRSSVLRQTRVRKIFELELLEQKE--					
APKG8G2	KEYHALGRLHSLPSKEKLENILNEFCGDIYQKPPQRSSVLRQTRVRKIFELELLEQKE--					
N_maritimus	KEYHALGRVHSLPSKEKLHEVIESLTGEIYQKPPQRSAVVRQTRTRTIYEFVLEQKE--					
APKG808	KEYQGLGRLHLLPSKEKLDGILKEFCGDIYQRPVRSNVSAVSRQTRIRKIFELELLEQKE--					
C_symbiosum	KEYVAVGRFHALQDSEKLGELARLFTGPIHQKPPQRSSVLRRTVRKTIHEIEVLEQKE--					

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	190	200	210	220	230	240
P_arsenaticum	-RYAVIKMHVEAGTYARKIIHDIGEV	LVGVANMRELRRVAVTCFTED-E	-AVTLQDVADA			
P_oguniense	-RYAVIKMHVEAGTYARKIIHDIGEV	LVGVANMRELRRVAVTCFTED-E	-AVTLQDLADA			
P_aerophilum	-RYAVIKMHVEAGTYARKIIHDIGEV	LVGVANMRELRRVAVSCYTED-E	-AVTLQDIADA			
P_islandicum	-RYAVIKMHVEAGTYARKLIHDIGEV	LVGVANMRELRRVAVSCYTED-E	-TVTLQDVADA			
T_neutrophilus	-RYAVIKMHVEAGTYARKLIHDIGEV	LVGVANMRELRRVAVSCYTEE-E	-TVTLQDVADA			
P_calidifontis	-RYAVIKMHVEAGTYARKLIHDIGEV	LVGVANMRELRRVAVSCFTED-E	-AVTLQDLADA			
T_tenax	-RYALLRMHVEAGTYARKLIHDIGEV	LVGSANMRELRRVGVGCFTEE-E	-AFTLQDIADA			
V_souniana	-KYALIRMNVESGTYARKLAYDIGEV	LVGVANMRELRRIRVGCFTKE-E	-AITLQDLKDA			
V_distributa	-KYVLIRMNVESGTYARKLAYDIGEV	LVGIGANMRELRRTRVGCFTKE-E	-AVTLQDLKDA			
T_modestius	-RYVLLDARVEAGTYIRKLCYDVGEV	LVGVANMRELRRVRVGCFGED-E	-AVTLHDLADA			
C_maquilingensi	-RYVLFKADVESGTYIRKLCYDIGEV	LVGASMLRELRRTRVGCFFREE-N	-TVNLNTLREA			
K_cryptofilum	-RFHKLVRVESGTYIRKLFFDIGEFL	VGGSMDLRRIRSGIFTEK-D	-CVTLEDIKDA			
N_equitans	-KDVLFVRVSTQGGVYIRKLIHDIGV	KLGVGAHMQLRRIRSGPFHEN-N	-SVYVLQDIVDS			
M_kandleri	-RDVLMRVGCQAGTYIRKLCHDIGEAL	GVGAHMAELRRTRTGPFSEE-N	-AVTLHDVKDA			
M_janaschii	-KDVLFVRVKCQSGTYIRKLCEDIGEAL	GTSAHMQELRRIRSGCFEEK-D	-AVYVLQDLDA			
Thermofilum	-RTALLHVWCEAGTYMRKLCYDIGEIL	GVGAHMQELRRIRSGSLYEDRN-C	-STMHVVDVA			
S_hellenicus	-RYVLVRVGCEAGTYMRKLAHDIGL	LLGVGAHMLRELRRTRTGPKYKED-E	-LVRMQEVSEA			
S_marinus	-RYVLVRVGCEAGTYMRKLAHDIGL	LLGVGAHMLRELRRTRTGPKYKED-E	-LVRMQEVSEA			
D_mucosus	-RFALIRVLSDPGTYMRKLAHDIGL	LLGVGAHMLRELRRTRTGPKYRED-E	-LVRLQDVSEA			
D_mobilis	-RFALIRVLSDPGTYMRKLAHDIGL	LLGVGAHMLRELRRTRTGPKYRED-E	-LVRLQDVSEA			
D_amylolyticus	-RFILVRVLSDPGTYMRKLAHDIGL	MLGTGAHMLRELRRTRTGPKYRED-E	-LVRLQDISEA			
S_zilligii	-KFLLLRVLCDPGTYMRKLAHDIGL	ILGVGAHMLRELRRTRTGPFRED-E	-LVSLQEVSEA			
T_aggregans	-RFALVRASCDPGTYMRKLAHDIGL	YTGVAHMLRELRRTRTGPKYRED-E	-LVKLQDVSEA			
I_pacificus	-RMALVRVGSESGTYMRKLAHDIGL	LLGTGAHMLRELRRTRSGPFHEEYN-E	-LVRMQELSEA			
I_islandicus	-RMVMVRVGSESGTYMRKLAHDIGL	LLMGIGAHMLRELRRTRSGPFHEEYN-E	-LVTMQELSEA			
I_hospitalis	-RMALVRVGSESGTYMRKLAHDIGL	LVGTGAHMLRELRRTRSGPFHEDWN-E	-LVRMQDLSEA			
C_noboribetus	-RLALLRVESDPGTYMRKLCWDMGL	VLGVGAHMLRELRRVKTGPFDEHDN-E	-LVTLQELSEA			
A_aceticus	-RLALLRVESDPGTYMRKLCWDMGL	VLGVGAHMLRELRRIRKTGPFDEHDN-E	-LVTLQELSEA			
C_lagunuensis	-RKVLLTIESEAGTYMRKLCWDIGL	ILGIGAHMLRELRRIRKTGPFNEDYY-E	-LVTMQDLTEA			
A_ Pernix	-KYALLRVDCEAGTYMRKLCWDIGL	VLGVGAHMLRELRRIRKTGPFSEDSGLMVRLLDDVAYA				
A_camini	-KYALLRVDCEAGTYMRKLCWDIGL	VLGVGAHMLRELRRVIRTGPFSEDSGLMVRLLDDVAYA				
S_hydrogenophil	ERYALLRIACEAGTYMRKICWDVGL	VLGVGAHMLRELRRTRTGPFSEARG-E	-LVTLQEVSEA			
T_maritimus	-KYALLHIWSEAGTYMRKICWDVGL	VLGTGAHMLRELRRIRTGPFTEERG-E	-LVRMQDIAYA			
P_zrockii	-RYALMRVLCCEAGTYMRKLCWDAGL	ILGVGAHMLRELRRIRKTGPFREQHG-E	-LVRLQELSEA			
P_occultum	-RYALMRVLCCEAGTYMRKLCWDAGL	ILGVGAHMLRELRRIRKTGPFREQHG-E	-LVRLQELSEA			
P_abyssi	-RYALMRVLCCEAGTYMRKLCWDAGL	ILGVGAHMLRELRRIRKTGPFREQHG-E	-LVRLQELSEA			
H_butylicus	-RYALMRVLCCEAGTYMRKLCWDAGL	ILGVGAHMLRELRRIRKTGPFREQHG-E	-LVRLQELSEA			
P_fumarii	-RYALMRVLCDPGTYMRKLCWDIGL	YLGVAHMLRELRRIRKTGPFREAYG-E	-LVKLQDLSEA			
A_ambivalens	-KLFLLRISSEPGTYMRKICWDMGIL	GTGAHMLRELRRIRSGIFTES-G	-LFTLQEVSEA			
A_infernus	-KLFLLRISSEPGTYMRKICWDMGIL	GTGAHMLRELRRIRSGIFTES-G	-LFTLQEVSEA			
A_brierleyi	-RMALLRISSEPGTYMRKICWDAGIL	LGCGAHMLRELRRIRSGIFTEK-N	-LVTLQEVSEA			
S_tokodaii	-RFILLRISSEPGTYMRKLCWDIGV	ILGCGAHMLRELRRIRSGIFTEK-N	-LVTLQEVSEA			
S_ohwakuensis	-RFILLRISSEPGTYMRKLCWDIGV	ILGCGAHMLRELRRIRSGIFTEK-N	-LVTLQEVSEA			
S_acidocaldarii	-KLILLRVQSDAGTYMRKLCWDVGI	AGCGSHMLRELRRIRSGIFTEK-N	-MVTLQEVSES			
S_azoricus	-RLVLMKIASSEPGTYMRKICWDIGI	LGCGAHMLRELRRIRSGIFTESDN-E	-LVTLQELSEA			
S_shibatae	-KLVLFRVSCDSGTYMRKLCWDIGI	YCGAHMLRELRRIRSGIFTESDN-E	-LVKLHDLSEA			
S_solfataricus	-KLVLFRVSCDSGTYMRKLCWDIGI	YCGAHMLRELRRIRSGIFTESDN-E	-LVKLHDLSEA			
M_haknonensis	-RRVLMRISSEPGTYMRKICWDMGIL	LGCGAHMLRELRRIRSGIFTESDN-E	-LVTLQEVSEA			
M_sedula	-RRVLMRISSEPGTYMRKICWDMGIL	LGCGAHMLRELRRIRSGIFTESDN-E	-LVTLQEVSEA			
S_metallicus	-RLVLMKIVSEHGTYMRKLCWDIGI	LSGYAHMLRELRRIRSGIFTESDN-E	-LVTLQEVSEA			
I_aggregans	-RRVLFVRVKCQSGTYMRKLCWDIGI	LLGVEAHMLRELRRIRSGIFTESDN-E	-LVTLQEVSEA			
APKG5E24	-NLILIRVLCCEAGTYIRKLIYDFGEI	LVHGATMIELRRTRVRSQFHENYP-E	-LVTLHQIAYA			
APKG8G2	-NLILIRVLCCEAGTYIRKLIYDFGEI	LVHGATMIELRRTRVRSQFHENYP-E	-LVTLHQIAYA			
N_maritimus	-RLLLTRVLCCEAGTYIRKLIYDFGEI	LVHGATMIELRRTRVRSQFHENYP-E	-LVTLHQIAYA			
APKG808	-RLILIRITCESGTYIRKLIYDIGEV	LVGPATMIELRRTRVRSQFHENYP-E	-LVTLHQIAYA			
C_symbiosum	-RLVLMRVSCCEAGTYIRKLIYDMGEV	VGSGASMIELRRTRVRSQFHENYP-E	-LVTLHQIAYA			

	250	260	270	280	290	300
P_arsenaticum	YYIWKKYGGDTYLRVLLPIEEIARHLPKIWVRDSAVDAVCHGAPLAAPGISKFEVPFSK					
P_oguniense	YYIWKKYGGDTYLRVLLPIEEIARHLPKIWVRDSAVDAVCHGAPLAAPGISKFEVPFSK					
P_aerophilum	YYIWKKHYGDDTYLRRVLLPIEEIARHLPKIWVRDSAVDAICNGAPLAAPGISKFETPFSSK					
P_islandicum	YYIWRRYGGDTYLRVLLPIEEIARHLPKIWVRDSAVDALCNGAPLAAPGVVKFETPFSSK					
T_neutrophilus	YYIWRKYGGDTYLRVLLPIEEIARHLPKIWVRDSAVDALCNGAPLAAPGVAKFEAPFSR					
P_calidifontis	YYIWKKYGGDTYLRVLLPIEEIARPLPKIWVRDSAVDALCNGAPLAAPGVAKFEHPFSR					
T_tenax	VYIWRNYGGDTVLRQIVKPIEEIARGVAKIWKIDGAVDAVCHGAPLAAPGVVKFEFPQR					
V_souniana	YTLYRDYGIEDLLRTYVKSVEYMVGLHPKVWVRDSAVDAICHGAALAVPGIVKL TNNIKR					
V_distributa	YTLYKDYGVEDLLRTYVVKPEYVMRHLPKVWVRDSAVDAICHGAALAVPGIVKL TNNIGK					
T_modestius	LYLWKQYGDSELLRRYVLPVEYIMVKHLPRIFIRDSAVDSVAHGAALAVPGVAKIEDGVER					
C_maquilingensi	YSLWRDYGDSELLRRLIRPVEEMVIHLPRIYIRDSAVDAIAHGASLAAPGVAKVEEGIRS					
K_cryptofilum	YDSWRESGDESKIRKVLPLEEAVRHLPKIYVKDSAVASLTHGASLKVKGICSLSRGIKK					
N_equitans	LYFWKEEGNEEYIRKVFLPVEEAVKHLKKIYILDSAVAAIVHGANLAVPGIAKLYSNIKK					
M_kandleri	YEFWKEEGWEEPLRHVVIRPMEYGLRHLPRIEIRDTAVDAICHGANLAAPGIVRVEKGIQP					
M_janaschii	YVFWKEDGDEEELRRVIRKPMEEGLRHLKKVVVKDSAVDAICHGADVYRGIKLSKGIGK					
Thermofilum	YYIWKEDGIDHFLRQVFLPVEAAIQHLPKVWVRDSAVDAVCHGAPLAVPGIVKLEGGTKV					
S_hellenicus	LYLWRNKGDERYL RKIILPVETAIAHLPKIIRDTAVDAIAHGAHLAVPGIARLTRDVAP					
S_marinus	LYLWRNKGDERYL RKIILPVETAIAHLPKIIRDTAVDAVAHGAHLAVPGIVRLTKDVAL					
D_mucosus	LLLWRSNGDERYLRRIVLPVETIAHLPKIMILDTAVDAIAHGANLAAPGVARLTRNIAK					
D_mobilis	LLLWRSNGDERYLRRIVLPVETIAHLPKIMILDTAVDAIAHGANLAAPGVARLTRDIAK					
D_amylolyticus	LALWRSNGDERYIRRIILPVETIAHLPKIMILDTAVDAIAHGANLAVPGIARLTNSVER					
S_zilligii	LYLWRTRGDERYLKKVVL PVEVSTAHLPKILVLDTAVDAIAHGANLAAPGVSMLTRNVEA					
T_aggregans	LYLWRVEKDERMLRRVILPVETAIVTHLPKIVINDLAVDAIAHGASLAAPGVVRLTDNVSA					
I_pacificus	KFLWDHLKDDSLKKYIMPCEYAVCHMQKIMVGDGAVDAIAHGAHVAAPGVAALTDGIKK					
I_islandicus	KFLWEEKKDDSLRKYVMPCEYSVCHMQKVMVMDGAVDAIAHGAHVAAPGVAALTDGIRK					
I_hospitalis	KFLYDNYGDDSLKKYIMPCEVATCHMPKIMIKDGAVDAVHGANVSIRGVAALTDNMKK					
C_noboribetus	VYRFREEGKDDYLRRAVLPGEVITCELPKVLRDSAVESVNGAPLAAPGVSLTSDVKA					
A_aceticus	VYRFREEGKDDYLRRAVLPGEVITCELPKVLRDSAVESVNGAPLAVPGISLLTPDVKA					
C_lagunuensis	VYRFKTEEKDDLLRKVIIPGEYSVCEL PKVLVRDTAVESVINGSPLAIPGISYNEGIRN					
A_pernix	VIRWREEGKDDLLRRVIPGEYSVCHIPKVLVRDSAVESLTHGAQLAAPGVAAVEEGVEK					
A_camini	VIRWREEGKDDLLRRVIPGEYSVCHIPKVLVRDSAVESLTHGAQLAAPGVAAVEEGVEK					
S_hydrogenophil	LYRLRVDGKDDLLRRVVL PGEYSVCHLPKVVRDTAVESLVHGASLAVPGVVMLHEDIKR					
T_maritimus	LIRYRDEGKEDLLRKVVL PGEYSVCHLPKVVRDTAVESIVNGAMLAVPGIAMLHEGIEK					
P_brockii	LYRWKNEGKEDLLRSYIKPVEYAVSHLPKIVIRDTAVDAIAHGANLAVPGIARLHEGIKR					
P_occultum	LYRWKNEGKEDLLRSYIKPVEYAVSHLPKIVIRDTAVDAIAHGANLAVPGIARLHEGIKR					
P_abyssi	LYRWRNEGKEDLLRKYIKPIEYAVSHLPKIVIRDTAVDAIAHGANLAVPGIVRLHEGIQR					
H_butylicus	IYRWKQEGKEDLLRKYILPIEYAVSHLPKIVVRDTAVDAIAHGANLAVPGIARLHEGIKR					
P_fumarii	LYRWKQEGKDDLLRKYLIPMEYAVHLKKVVRDSAVDAIAHGAHLAVPGIARLHADIKR					
A_ambivalens	LYMWKNCKDETLRKILLPMEIGLCGIPKII LDDNAVNAIYAGATANVP GIVAYQN-FKK					
A_infernus	LYMWKNCKDETLRKILLPMEIGLCGIPKII LDDNAVNAIYAGATANAP GIVAYQN-FKK					
A_brierleyi	LYMWKSKCDEEDLRKILIPMEMAF CGIPKIVIDNNAVDAIYAGASVMIP GIVAFQN-FKK					
S_tokodaii	LYMWKNCKDESLRKILLPMEYATCGMPKIL IDNNAVDAISYGAMLTAP GIVAYQR-FRV					
S_ohwakuensis	LYMWKNCKDESLRKILLPMEYATCGMPKIL IDNNAVDAISYGAMLTAP GIVAYQR-FRV					
S_acidocaldarii	LYLYRNCKDESELRRILLPMEYGVCGIPKIVISDTAVNAITYGAKNLPGILAYQN-FRK					
S_azoricus	LYMYHKCKDESLRRILLPMEYAVCGIPKVV IDDDAVNAITYGATNLPGVAVFQN-FKK					
S_shibatae	IYLYKNCKDETELRRVLMPEYATCEMPKLI IEDSAVNALAYGAQLAVPGIVAYQN-FKR					
S_solfataricus	IYLYKNCKDETELRRVLMPEYATCEIPKIV IEDSAVNALAYGAQLAVPGVVAYQN-FKK					
M_haknonensis	LYLYNNCREDELRRILIPMEYAF CGIPKII VDDETVNSLAYGSPLMAP GIVAFQP-FKK					
M_sedula	LYLYRNCGEDELRRILIPMEMAF CGIPKII VDDETVNSLAYGSPLMAP GIVAFQG-FKK					
S_metallicus	YVMWKNCKDESEFIRKIIIMPMEIATCGIPKIMVDDNAVSAIYAGAKLTAPGVVGFQ-FKK					
I_aggregans	LYI					

	310	320	330	340	350	360
P_arsenaticum	GDIVAMF	-----	-----	-----	-----	-----
P_oguniense	GDIVAMF	-----	-----	-----	-----	-----
P_aerophilum	GDLVAMFTLKGELIGIGRALVGSEEVKKMERGLVARTDRVVMRRGTYPAMWKRKAKSQSD	-----	-----	-----	-----	-----
P_islandicum	GELVAFF	-----	-----	-----	-----	-----
T_neutrophilus	GELVAYF	-----	-----	-----	-----	-----
P_calidifontis	GDLVAYFTLKGELIGIGRALVDSEEVKKMEKGLVARTDRVVMRGTYPMPWRRGGKSFKS	-----	-----	-----	-----	-----
T_tenax	GDLVAYF	-----	-----	-----	-----	-----
V_souniana	KSLTAIM	-----	-----	-----	-----	-----
V_distributa	GSLVAIM	-----	-----	-----	-----	-----
T_modestius	DRMAAIV	-----	-----	-----	-----	-----
C_maquilingensi	GQLVALM	-----	-----	-----	-----	-----
K_cryptofilum	GSIVALMTLKGELIAIGRALMDFDEMLSADSGVAASIERVIMPRDLYPPMWKTG	-----	-----	-----	-----	-----
N_equitans	GDLVSIHTLKGELVAIGIALMDSKEMLEKKRGIAVDIERVFMKPGLYPKMWVSQG	-----	-----	-----	-----	-----
M_kandleri	GDLVAIFTLKGAEVALGVAKATWKEMLHADRGIMVDTKRVLMEPGTYPKAWGLKTPGE	-----	-----	-----	-----	-----
M_janaschii	GETVLVETLKGAEVAVGKALMNTKEILNADKGVAVDVERVYMDRGTYPRMWKRKK	-----	-----	-----	-----	-----
Thermofilum	NSTVAIL	-----	-----	-----	-----	-----
S_hellenicus	NKTVAIL	-----	-----	-----	-----	-----
S_marinus	NKTVAIL	-----	-----	-----	-----	-----
D_mucosus	GSTVAIL	-----	-----	-----	-----	-----
D_mobilis	GSTVAIL	-----	-----	-----	-----	-----
D_amycolyticus	NKTVAIL	-----	-----	-----	-----	-----
S_zilligii	GKTVAIY	-----	-----	-----	-----	-----
T_aggregans	GATVAVF	-----	-----	-----	-----	-----
I_pacificus	GDVVAIV	-----	-----	-----	-----	-----
I_islandicus	GDVVAIF	-----	-----	-----	-----	-----
I_hospitalis	GDVVAVVSLKGELVAIAQALVSSQEALKMEKGWAKTKRVIMKPGTYPDVWRKKKASQQE	-----	-----	-----	-----	-----
C_noboribetus	GSQVAMF	-----	-----	-----	-----	-----
A_aceticus	GGRVAML	-----	-----	-----	-----	-----
C_lagunuensis	GDLVSLI	-----	-----	-----	-----	-----
A_pernix	GGMVALMTLKGELIGL GKALASAEQEMLEAERGIVVSPTRIIMERGLYPRMWKRQQAPQGA	-----	-----	-----	-----	-----
A_camini	GGMVALM	-----	-----	-----	-----	-----
S_hydrogenophil	GETVAVL	-----	-----	-----	-----	-----
T_maritimus	GDTVALL	-----	-----	-----	-----	-----
P_brockii	GDLVALF	-----	-----	-----	-----	-----
P_occultum	GDLVSLF	-----	-----	-----	-----	-----
P_abyssi	GDLVALF	-----	-----	-----	-----	-----
H_butylicus	GDLVALL	-----	-----	-----	-----	-----
P_fumarii	GDVVAIF	-----	-----	-----	-----	-----
A_ambivalens	GDLVGLI	-----	-----	-----	-----	-----
A_infernus	GDLVGLI	-----	-----	-----	-----	-----
A_brierleyi	GDLVGI	-----	-----	-----	-----	-----
S_tokodaii	KDTVAILTLKGELVAIGEADVDSQKLVDMMKKGIVVKPKRVLMPRDIYPRSWKKHG	-----	-----	-----	-----	-----
S_ohwakuensis	KDTVAIL	-----	-----	-----	-----	-----
S_acidocaldarii	NQDVAVL	-----	-----	-----	-----	-----
S_azoricus	GENVAIM	-----	-----	-----	-----	-----
S_shibatae	NDTVAVL	-----	-----	-----	-----	-----
S_solfataricus	NDTVAVLTLKGELVATGNALMDSEELNKKGIVVNLSRVFMQRDIYPKAWKKHES	-----	-----	-----	-----	-----
M_haknonensis	GDVVALI	-----	-----	-----	-----	-----
M_sedula	GDTVALL	-----	-----	-----	-----	-----
S_metallicus	DDVVCVITTKGELVSVGKALMDYRRLAKVDKGEVASTDRVFIDRDVYPKHWDKDGSS	-----	-----	-----	-----	-----
I_aggregans	DDRVAIF	-----	-----	-----	-----	-----
APKG5E24	EDLVGIYITQKGEIVALAQSLMSEDDIKENTKGYAFETKRIIMAPETYPKSWRSRLTIKEN	-----	-----	-----	-----	-----
APKG8G2	EDLVGIYITQKGEIVALAQSLMSEDDIKENTKGYAFETKRIIMAPETYPKSWRSRSTIKEN	-----	-----	-----	-----	-----
N_maritimus	GDIVGIYITQKGEIVALAEATMSGQEIQDAVKGYAFETKRIIMAPNTYPPKWRTKPSSKE	-----	-----	-----	-----	-----
APKG808	DELVGIIYITQKGEVVALAQSSMSGETIEETPKGHAFETKRIIMAPNTYPPKWRTKHSKEKT	-----	-----	-----	-----	-----
C_symbiosum	GDLAGVYTQKGEVVALAEAEAEVIADATKGHAFKTKRLIMKTDITYPKSWHSGKTYKEK	-----	-----	-----	-----	-----

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P_arsenaticum	-----
P_oguniense	-----
P_aerophilum	SA----
P_islandicum	-----
T_neutrophilus	-----
P_calidifontis	GT----
T_tenax	-----
V_souniana	-----
V_distributa	-----
T_modestius	-----
C_maquilingensi	-----
K_cryptofilum	-----
N_equitans	-----
M_kandleri	-----
M_janaschii	-----
Thermofilum	-----
S_hellenicus	-----
S_marinus	-----
D_mucosus	-----
D_mobilis	-----
D_amylolyticus	-----
S_zilligii	-----
T_aggregans	-----
I_pacificus	-----
I_islandicus	-----
I_hospitalis	GG----
C_noboribetus	-----
A_aceticus	-----
C_lagunuensis	-----
A_pernix	-----
A_camini	-----
S_hydrogenophil	-----
T_maritimus	-----
P_brockii	-----
P_occultum	-----
P_abyssi	-----
H_butylicus	-----
P_fumarii	-----
A_ambivalens	-----
A_infernus	-----
A_brierleyi	-----
S_tokodaii	-----
S_ohwakuensis	-----
S_acidocaldarii	-----
S_azoricus	-----
S_shibatae	-----
S_solfataricus	-----
M_haknonensis	-----
M_sedula	-----
S_metallicus	-----
I_aggregans	-----
APKG5E24	VTNT--
APKG8G2	VTNT--
N_maritimus	-----
APKG808	KTDGGE
C_symbiosum	E-----

Parameters used Minimum Number Of Sequences For A Conserved Position: 29 Minimum Number Of Sequences For A Flanking Position: 47 Maximum Number Of Contiguous Nonconserved Positions: 10 Minimum Length Of A Block: 5 Allowed Gap Positions: None Use Similarity Matrices: Yes
 Flank positions of the 6 selected block(s) Flanks: [77 81] [87 175] [182 2

26] [231 244] [249 291] [300 304] New number of positions in /Users/yo
kobori/Desktop/Cbf5_2/list080725.fasta-
gb: 201 (54% of the original 366 positions)