

A_aceticus	GGGACCCTTG	GGCTCAG-G-C---CGCG---T---G---GCCT	GGGCGGGGAA	ATCCCAAAGTA
C_noboribetus	GGGACCCTTG	GGCTCAG-G-C---CGTA---A---G---GCCT	GGGCGGGGAG	ATCCCAAAGTA
M_hakonensis	GGGACCCTAG	AGCCCTT-----A-----T	GGGCGGGGCA	ATCCCAAAGGT
M_sedula	GGGACCCTAG	AGCCCTA-----A-----T	GGGCGGGGCA	ATCCCAAAGTA
A_ambivalens	GGGACCCTAG	AGCCCTA-----AAA	GGGCGGGGTA	ATCCCAAAGTA
A_infernus	GGGACCCTAG	AGCCCTA-----AAA	GGGCGGGGTA	ATCCCAAAGTA
S_shibatae	GGGACCCTAG	AGCCCATT-----T-----CACT	GGGCGGGGTA	ATCCAAAAGTT
S_solfataricus	GGGACCCTAG	AGCCCATT-----CATT	GGGCGGGGTA	ATCCCAAAGTT
A_brierleyi	GGGACCCTAG	AGCCTT-----AAA	AGGCGGGGCT	ATCCCAAAGTA
S_metallicus	GGGACCCTAG	AGCTGCTG-----TAAAT	TGGCGGGGTT	ATCCCAAAGTT
S_ohwakuensis	GGGACCCTAG	AGCCTTGA-GGGT--TA---A-----ACCCT	AAGGCGGGGG	ACCCCAAAGTA
S_tokodaii	GGGACCCTAG	AGCCTTGA-GGGT--TA---A-----ACCCT	CAGGCGGGGAG	ACCCCAAAGTA
A_camini	GGGACCCTAG	AGCCCCAGCCAGCCCTCT---G---GGGGCT	GCGGGGCGGGGAT	ATCCCAAAGTA
A_pernix	GGGACCCTAG	AGCCCCTGCCAGCCCCCA---G---GGGGCT	GCGGGGCGGGGAT	ATCCCAAAGTG
C_lagunensis	GGAACCCTAG	AGCCTTGA-C-T---CTTA---A-----G---AGAG	AGGCGGGGAT	ATCCCAAAGTA
S_hydrogenophila	GGGACCCTAG	AGCCCCA-GGCT-GCTA---G-----GGCCG	GGGCGGGGGG	ATCCCAAAGTC
T_maritimus	GGGACCCTAG	AGTCCCT-CCCGGG-TAAGCTACTAGCTTCCCG	GAGGGGCGGGGAT	ATCCCAAAGTA
D_amylolyticus	GGGACCCTGG	AGCCCTT-----TAG	GGGCGGGGAA	ATCCCAAAGTG
S_zilligii	GGAACCCTAG	AGCCCCGTG-TC--CTTT---G-----AGACC	GGGCGGGGAA	ATCCCAAAGTA
T_aggregans	GGTACCCTAG	AGCCCGT-----G-----TC	GGGCGGGGAA	ATCCCAAAGTG
D_mobilus	GGTACCCTAG	AGCCAC-----CGGCGGGGAG		ATCCCAAAGTG
D_mucosus	GGTACCCTAG	AGCCAC-----CGGCGGGGAG		ATCCCAAAGTG
I_aggregans	GGTACCCTAG	AGCCCGA-C-CGTT---TGATTATATGAATG	GTCGGGCGGGGAG	ATCCCAAAGTA
S_azoricus	GGGACCCTAG	AGCACGT-----TT-----AAC	GTGGCGGGGAG	ATCCCAAAGTA
S_acidocaldarius	GGAACCCTAG	AACCCGTA-----TAAC	GGGTGGGGAA	ATCCCAAAGTT
S_hellenicus	GGGACCCTAG	AACCCCTA-TCCCC-TCA---A---TAGGGG	GAGGGGTGGTTAA	ATCCCAAAGTG
S_marinus	GGGACCCTAG	AACCCCTA-TACCC-TCA---A---TTGGGATAG	GGGTGGTTAA	ATCCCAAAGTG

motif HHHHBB B <-----intron-----> HHHHBB B