

Additional file 2

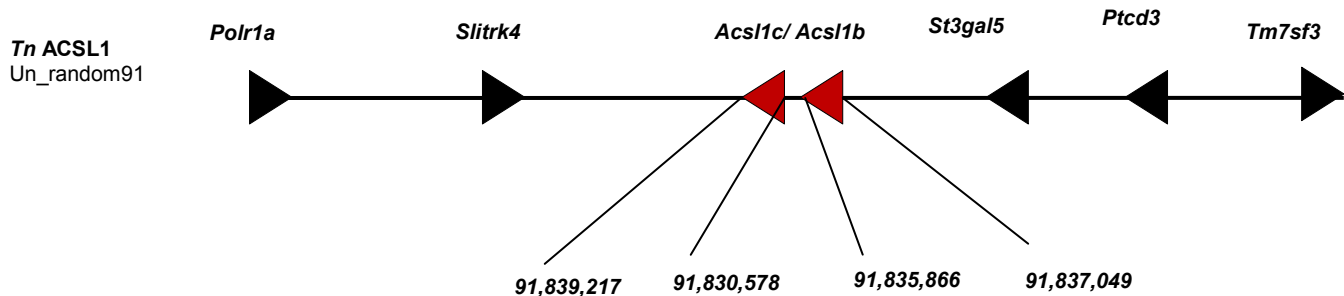
Partial *AcsI* gene annotations in green spotted pufferfish

A- Genomic location of the partial sequences of *AcsI* from green spotted pufferfish

AcsI1a - ENSTNIG000000018054 (complete sequence)

AcsI1b- ENSTNIG000000000345 (partial sequence)

AcsI1c- ENSTNIG000000010115 (partial sequence)



B- Alignment of the partial *AcsI1b* and *AcsI1c* sequences and complete *AcsI1a* sequence

Highlighting in grey marks the overlapping region between the two partial sequences

ACSL1a_ENSTNIG000000018054	MQTPEALKQFWIPELDNIQHFLGGMSGNALVGMGVLVALTTYWLASRHRA
ACSL1b_ENSTNIG000000000345	IFIMDLVYRLGLLSLDSVTQYVRSVSTPVWVGTLVAAATTYLLTARPKA
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ACSL1a_ENSTNIG000000018054	VKQRVDFSRQSVELPGGEGIRRSVLVENDQLITHYDDARTFYELFLRGL
ACSL1b_ENSTNIG000000000345	LPPICDLDMQSIEIPGGELARRSALQNGDAYTKCYDDARTMYESFLRGL
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ACSL1a_ENSTNIG000000018054	RESNNGPCLGSRKLNHPYEWQSYQEVDRAKHIGSALLNKGHSHTGDKF
ACSL1b_ENSTNIG000000000345	RVSNDGPCLGSRKPKQPYEWLSYSEVK-ERAENLGS AFLHRGHSKTKDPH
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ACSL1a_ENSTNIG000000018054	IGIFSLNRPWEWTISELACYTYSLVAVPLYDTLGREAIIGYIIDKATISTLI
ACSL1b_ENSTNIG000000000345	IGIFSQNRAEWTISELACYTYSLVSVPLYDTLGTETAIYIIVEKASISTIV
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ACSL1a_ENSTNIG00000018054	CDLPEKAWMLVDCINGKGKSVKRIVIMGPFQSELVERAECDIEIISFED
ACSL1b_ENSTNIG00000000345	CDLSSKVDLLLSCLEDDKKHAVKTVVLMKPSVELVSRAKRSGIDVISVEE ***. *. :*:.*:*. :*: * :* . ***.*:..*:*:*. *:
ACSL1a_ENSTNIG00000018054	FEALQQDTVMEPVPPAPEDLALV CFTSGTTG KPKGAMLTHGNIIANTAAF
ACSL1b_ENSTNIG00000000345	MEALGKANRQPPVPPKPEDMAVI CFTSGTTG ----- :****: . **** **:*:*****
ACSL1a_ENSTNIG00000018054	LKLTEKDCMLCVHDIHISYLPLAHMLERVIHGVLVHGGRVGFFQGDRL
ACSL1b_ENSTNIG00000000345	-----
ACSL1a_ENSTNIG00000018054	LMDDLQTLKPTVFPMPVRLNRMCDKIFSQADTPLKKWLLRLAFSRKIAE
ACSL1b_ENSTNIG00000000345	-----
ACSL1a_ENSTNIG00000018054	LNQGVVRQDTIWDRLIFKKVQANTGGRVRMMITGAPPVCPKNLTYINITT
ACSL1b_ENSTNIG00000000345	-----
ACSL1a_ENSTNIG00000018054	MLQLYEGYGQTECTAGCSMSLPGDWIAGAVGPPVPCNDIKLVDVAEMNYF
ACSL1b_ENSTNIG00000000345	-----
ACSL1a_ENSTNIG00000018054	AANGEGEVCAKGTNVFKGYLGDAEKTAEALDEDGWLHTGDIGKWLPGNTL
ACSL1b_ENSTNIG00000000345	-----
ACSL1a_ENSTNIG00000018054	KITDRKKNIFKMAQGEYIAPERIEMIYNRSEPVAQIFVHGDSLKACLVAI
ACSL1b_ENSTNIG00000000345	-----
ACSL1a_ENSTNIG00000018054	VVPDSETLPDWIKKKGIEGPPTGLCKNQDVKRAIQEDILRLGREAGLKSF
ACSL1b_ENSTNIG00000000345	-----
ACSL1a_ENSTNIG00000018054	EQVKDITLHPMFISIQNGLLTPTLKSkrVELRRYFRKQIDEMYAKIKR
ACSL1b_ENSTNIG00000000345	-----

ACSL1c_ENSTNIG00000010115	-----
ACSL1a_ENSTNIG00000018054	MQTPEALKQFWIPELDNIQHFLGGMSGNALVGMGVLVALTTYWLASRHRA
ACSL1c_ENSTNIG00000010115	-----
ACSL1a_ENSTNIG00000018054	VKQRVDFSRQSVELPGGEGIRRSVLVENDQLITHYDDARTFYELFLRGL
ACSL1c_ENSTNIG00000010115	-----
ACSL1a_ENSTNIG00000018054	RESNNGPCLGSRKLNHPYEWQSYQEVVADRAKHIGSALLNKGHSHTGDKF
ACSL1c_ENSTNIG00000010115	-----
ACSL1a_ENSTNIG00000018054	IGIFSLNRPEWTISELACYTYSLVAVPLYDTLGREAIGYIIDKATISTLI
ACSL1c_ENSTNIG00000010115	-----

ACSL1a_ENSTNIG00000018054	CDLPEKAWMVLDCINGKGKSVKRIVIMGPFQSELVERAEECDIEIISFED
ACSL1c_ENSTNIG00000010115	-----CFGTVVSGDPKGAMLTTHENIVSNCSAV
ACSL1a_ENSTNIG00000018054	FEALGQDTVMEPVPPAPEDLALVCFTSGETTGKPKGAMLTGNI IANTAAF
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ACSL1c_ENSTNIG00000010115	IKVTEVSCPFCSSTHMSYLPLAHMFERIVQGCVLVHGARIGFFQGDIRS
ACSL1a_ENSTNIG00000018054	LKLTEKDCMLCVHDIHISYLPLAHMLERVIHGVVLVHGGRVGFFQGDRL
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ACSL1c_ENSTNIG00000010115	LSDDLCAKPTVFPVPRLLNRMYSRIFGQANSTVKRWLLGFARKEAE
ACSL1a_ENSTNIG00000018054	LMDDLQTLKPTVFPVPRLLNRMCDKIFSQADTPLKKWLLRLAFSRKIAE
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ACSL1c_ENSTNIG00000010115	LRRGIMRRDSIWDRLIFRKVQASLGGRVRFMITGAAPISPAVLTLFRVAM
ACSL1a_ENSTNIG00000018054	LNQGVVRQDTIWDRLIFKKVQANTGGRVRMMITGAPVPCPNLTYNITT
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ACSL1c_ENSTNIG00000010115	GCQFFEGYGQTECTAGCTMTLAGDWTAGHVGPPPLPCNSVKLVDVAEMNYL
ACSL1a_ENSTNIG00000018054	MLQLYEGYGQTECTAGCSMSLPGDWIAGAVGPPVPCNDIKLVDVAEMNYF
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ACSL1c_ENSTNIG00000010115	AANGEGEVCVKGNVFGYGLHDPEKTAEAI DAHGWLHTGDIGKWLPGTL
ACSL1a_ENSTNIG00000018054	AANGEGEVCAKGTNVFKGYLGDAEKTAEALDEDGWLHTGDIGKWLPGTL
	*****.*.*.*:*** *.*****:* .*****:*****
ACSL1c_ENSTNIG00000010115	KIIDRKKHIFKLAQGEYIAPEKIENVYVRSSAVAQVYVHGDSLQAFVLAV
ACSL1a_ENSTNIG00000018054	KITDRKKNIFKMAQGEYIAPERIEMIYNRSEPVAQIFVHGDSLKACLVAI
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ACSL1c_ENSTNIG00000010115	VVPDPDFLCGWAKKTLGLRGSYEDLCSKESVWVSVERCVIVIEDACVVL
ACSL1a_ENSTNIG00000018054	VVPDSETLPDWIKK-KGIEGPPTGLCKNQDVKRAIQEDILRLGREAGLKS
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ACSL1c_ENSTNIG00000010115	CVQVKAIHPELFSVENGLLTPTLKAKRNEMRQFFRPQLDHLYASIKM
ACSL1a_ENSTNIG00000018054	FEQVKDITLHPMFESIQNGLLTPTLKSkrVELRRYFRKQIDEMYAKIKR
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