

Table S1: *T. aquitania* satDNA families consensus sequences

satDNA name	consensus sequence
TaquSat1-183	GAGATGTAGAACTACAAGAACAACAAGAAGCTAGAAGAACAAGAACAAGAAGAACAAGAAACAGAAGAATAAGTCAAAAA GCAGAAATAACAGAAGAATAAGCTGAGGAAGAAGCAGAAAAAGAAGTAATTGAAAAAGCAGAAAATGCAGAAGAAACAGAAGA AGATGAAGAAGAAGAAG
TaquSat2-107	TTTCTCCTCAGAGGCCTGTCTTCTCCTCAGAATCTGCTTCCCAGGGTGTCAATTTCTCCTCAGATATTTCTCCTCAACACTCCT TACTACAGTATTTCTCCTCAGTTT
TaquSat3-6	CTTCTT
TaquSat4-437-470	Consensus pattern 437 bp GGTGTCCCCGAGGGGAAGATTACC GTTCCCCCAAGGGGGAAGAGGGTCGCGTTTCCCCCTGGGGTAGAGGGTCCCCTACCC CCGTGGGGGCTGAGGGTCCCCATCCCCCTCGCGCGCGCCCCCTCGCGGCGGCTCTGTGAAGTGCACCTGTGCTCAGGGAGAGT CCGGTGGGCGGGGTGAGGCTCCGGCCGGGGCGGAGCCTGGGGCTCATCAGCGCTGCCTGGCCAGGTGAGGACTCTTCCCCCTT TGAGTGGTGCTGGGTTGCTCGGGCCTTTCCCCGCCGGCCTGTCTTCCTGCAGTTTGGAGGAGGCCGCGGTGCGCGTCTGTCT GTGGCTTGCAGGGGTGCCCCCTGACGGTGACCCGCCCCCTTCGTCTATGGCGCTCTGGGCGCAATGTCCGCCCCTCGGGT TGTGAGTGCGGAGGAGGTTGCA Consensus pattern 466 bp GGCTTCCCCCAAGGGGAAGATAGCCCCGTCCCCCATGGGGGAGGAAAAATCCCGTTCCCCCATGGGTGCAGAGGTCCCCAAA CCCCATGAAGGCTGAGGTCCCCGAACCCCTCACCAGCGCCCCCTAGCGGCAGCCCTGAGAAGTGCACCTTCGAGCATGCAGA GTCCAGTGGGCGGGGTGAGGCTACGGCCAGGGGCGGAGCCTGGGGCTCATCAGCGCTGCGGGCCAGGTGAGGACTCTTACCCT TTCAGTGGGGCTGGCTTGCCCCGGGCTTTCGCGCCACCCTGTCTGCCTGCAGTTTGGGAAGAGGCTCAGGTCGCCGCTGTGC CCTGGCGTACAGGGGTGCCCTCCCCGGACAGGGACCCACCCCTCCGTCTAGGGCGCCTGAGGGCGCATCGGCATGCCCTA GGGCTGTGAGTGCAGAGGAGGGTGCAGGTGTTCCCCGGGGGAAAGATTG
TaquSat5-3102	TGATCATAGATGGGGAAATACCAATCCACATCAACAAGAAGAGGGGGTTCCTCTTCCTGAGGACACAAGTGGATTATTCCACC TTTCAGGCTCTACATGAAGTGCCTTCCATAGGAGAGCTGGCGTAATATAAATATTTATGAAAAGAAATGCACTAAAAC TAAGA TGAAAGTGGGCGCAGACCCAGAGAGCCACAGGGTGGGGGTACCTAGAAGTCAGTGACCTGGCACCCCTTTGAAACAACCATT TGCTTAACAGGACTTGGGATTTGCCAGACAAGATATCGATTGCACAGAAGCAAGAAGGACTTGGTTTGGTTTGGAGGCAGGA ATGAAGCATGACAATGAGCATCACATTGTGCTCCTTACCTCTCCCTGGAGGGTTCGCTCCAGGTTCTGCAGCGGCTGCTT TCTCCTCCACATTTTCCACGATCTCTAATCTTGAAGATAGAACAACATGGTCATCCATACAAATGACCAAACCAAGTGCTTTA CTAGACCTGAAACTGTAGTTGAGGACCTCAACTCCACCCTGAAGCAGAATCACCACAGCCTGCTACCTGCTTGGCTAGTGGGC GGCTTCCTGCGCTGCTCCTGCATCTCCACTCCATCTGACACGCCAGGACCTGTGGGGAAACACAGCCACTGGTCAGGCCCAG TACAGTGCAGAGAAGGGGGGAAGGAGAGTCAACTTACCATTCTCCTGAGCCTTCCTTCCAGCCTGATCCACCGAAACTGAT CCTTGGAGCCTGAGCCTTTGAGCCTTCAAGCCCTGGAGCCTTCTTCTCCTGCTGGGCAATCTGAAAAGAGCAACACAGCCAAG CCCTGGGGTTAGGTCCCTGGGGCTTTGCAAACATTTGTTTGAGGAGCAGGAGGATTGCTGTGGGGAGAGGCAGGTTACCTGG AGTTGATGAACAAAGTCAGCTTGCCCTCAGTTTCTGCAAGTTTCTTCAAGTTTCTTGCCTATTATGTTGATTTCATTAGAGAA AGCAGAATATTAAGAATCATTTAAAGTCATTTCCCAAGTGCCTATTACCTTCACATCTATTGTTCCCTAATACAAC TGACCTA TACACAGAAAACAATTTTTCAGGTTATAAACACACTGTGGGGTCAAAGCTTTTGTATGCATCATTTCTTATTTACTGTTTG ATGCCACCAGATTCTCAGCCTGTGTAACTTACTTACCATCTCAACATTTTCGCTAATTGATCATGTCTCAATAGCTTGTCT CATAAAGCTCTAATCTCCTTTGATTTATATCCCTATCATATTTGCCAGAATTCGAAAGTCTAGGTCCATCAATGACAAAAG CATATTTACGGATATGATTACCCCTACAGTGAGCTAGTTTGTTCGTGATTATAAAAATTACACTGTCTCAGAGACATTTGTA TGAACTAAAAGGCTAAGAGCATTGGGGGATCAAGAAATATTTATGAACTATTTTTTGTGTTCTTTGTAGAACAAC TTTTGT TCCTTGTTGTGCTCTATATGACTTCTGAAACTTTGCTGATATCACTAAACATCCTGAGTCTAAACATTACAAGTTTAAAA ACAAAAGCCGGGATTTCTTGACCTGCTGGTATCTACGAACTCACTTGTATTTTTCAATTTCTTGAAGAATTTCTTTTCAAGTTT CATCTCCAGAGCTACAAGCTCCTTCTCCTTTTTCTCCCTTTTCATGCTGTTTCCATTTTCAGCATCCTGAATTGGGAAAGACAGA GATGATGCCCAGCACCCCTCACGAAATCCTGCCTTTCCAGCTCAGGGCCTGGATTGCAAAGCCCCCTCCTGCGCTGCGCTCT GCTGTGCCCTCTGCAAAC TCGGCTTTTCTCAGAGTCTCCACCAGCTCATTGCTCTTCAGTCATCAGGACAAGGGCGTGGGGT GCCTCCCTGTGCTGGGGCTGCTGTTTGAGAAGGTGAAGGCTTTTCTTTCAAAC TGGAAACGTACACGTGAAATTTCCACCTT GAAATAAAGGGGATGCCTGTCCAAC TACGACAACCACATACATTAGGGCAAAGAAGGGGATCCTACCAGTCCGCATCTCCGA GGGGAGCCTGATTATCAAGCCCAGGCTGTGCTTATGCAGGACAAGTAGCTATGAAGACAGTCTTACAGGCTGGGACTTCCCGA GCCCTCTGCCATCAGCCCCACATAGTCTGAAGGCTCGGGAGCAGAGCTTTGCCTCCTACTGCAAACCTCGTGGGAGAAAAG GTCCATCTTATCGCTGCTAGGATGTACTGAAATATAAAATGCTGGAACTGTCCCTTAGTCAGGGTATTATCTCTAGGAAGCA ATTTCAAATGGACAACAAACAGCTTCAGGGCGTCAATTTCTTTACCAAGACCCAGATCACAGCTAGTGTGGGCAGCAATGAG CTGTGGCTGGGAATCCTTCTTTGCTCTGCCGCCCTCAGACTATTTTCTCATGCTGCTGACTCCAAGCTGACACTCTATTAA

	CTGTATAGATTGACACACAAAATAATAAGGAACCGGGACAAAGTAAGCACTGAAGAGAGAAGAGGACACACACTTCTTTCTAG CCTCCCTACTGTTCTCGCAGCAACCGCTTCCTATAGTGACTGCAGTACTTATGGCTTTGCTGTTTACATGCCCACATTACATG CCCACAGAAAAAGATCACAGAGGAAGGAAAGCTGGTGGGGACATCATCCCCCTACCCCTTCTCTGCGTCCTCAGCTGGCACAGA GTTGCCATCACTCACGGGAGCTGCACCAGGTCTGAGTCTGACAAAGACCACAGAAGTGACAGAGGTGATTGGGACTTGACAG AGATGGTGAGGAAACCCTCCTTGCCTTCCCCATTACCTCCATTGTCCCCACATTAGTCCCTTCTCAGGATATGGGGCTCT CCAGGAGCCTCACTGGCCCCAGAGCCCAAGGGGGACAGGAATCACCCAGTCCCCTGGGTGACACGCTTCTCTCAACTTCAT CACCCAAGTGGGAACCTGTCAGGGCTCACCTAGTTGGAGTCTGGCACAAAAACAGAGGCTCCCCAATGCTTGGCAAGACAAAT TGCCATTTCAATGTAGGTTAAAGAAAAAGTA
TaquSat6-84	GAAACCYTAYRAATGTGAAGARTGTGGGAAAGCYTTTWMCCRKAAGTCAHMCCTCACTRAACATCAGAGAATTCACTGAG A
TaquSat7-60	GATCTGTCAGCAGCTAGGTATGCCTTGCGATCACAAGCCTCAACTAGTGGTACCTGGGTT
TaquSat8-45	GGCTGAAGACCATCCACCAGTCTCATCAACATCTCGAGACGTAAA
TaquSat9-90	GAACCAAGTACAGAGGANAGGAGACAAATGATAGCACAGGGTGGAGGCTCAGATGAAGANAGGGAATACAGACAGRSTAGAAG GAATCTA
TaquSat10-24	GAGCCTTGATCATGGTCACAGACT
TaquSat11-71	TCAGCCTACCCCCAAGGGGTCTACAGCCACTCACAGTTTAACAGGCAGTGCCTCAGCGCCTGCCACTGAAG
TaquSat12-101	CGGAGGAAAACCACTGAATGACAGGACTTGGTGTTGAGAGCCTGGAAAGTGACCTGCGTGAGTCGGGCTTCTACATCTCCAC AGTCTGAGAATAACAAAA
TaquSat13-54	CATGCAGGATCAAGTGCAACGACAAAAATCAGACTTTTGAGTCAGCTTTTCAAAG
TaquSat14-17	GACCCCGAGAACCCAGT
TaquSat15-64	AGCCTGCCGCAGAGCAGGCTGGGAAGGATGAGACCAAGCAATAGAATAAAGAGGGCTGCCTTCA

Table S2: List of oligos used to localize by FISH the repeat DNA sequences of *Talpa aquitania*

Oligo	Sequentia (5' a 3')
TaquSat1-183-F	AATAAGTCAAAAAAGCAGAAATAACAGAAG
TaquSat1-183-R	TTGTTCTTCTAGTTCTTGTTGTTGTTC
TaquSat2-107	TCWCCTCAGATWTTTCTCCTC
TaquSat3-6	TTCTTCTTCTTCTTCTTCTTCTTCTTCTTC
TaquSat4-437-466-F	TGCCTGCAGTTTTGGAGG
TaquSat4-437-466-R	GACTCTGCCTGCGCACAG
TaquSat5-3102-F1	CACATCAACAAGAAGAGGGGGTTC
TaquSat5-3102-R1	TGAGTTCGTAGATACCAGCAGGTC
TaquSat5-3102-F2	AGCATCCTGAATTGGGAAAGACAG
TaquSat5-3102-R2	GAGCCTCTGTTTTTGTGCCAGAC
TaquSat6-84-F	CATCAGAGAATTCAYACTGGAG
TaquSat6-84-R	AAARGCTTTCCCACAYTCTTCAC
TaquSat7-60	CGATCACAAGCCTCAACTAGTGGTACCTG
TaquSat8-45	AGACCATCCACCAGTCTCATCAACATCTC
TaquSat9-90-F	CAGATGAAGANAGGGAATACAGAC
TaquSat9-90-R	CACCCTGTGCTATCATTTGTCTC
TaquSat10-24	AGTCTGTGACCATGATCAAGGCTC
TaquSat11-71-F	CCTCAGCGCCTGCCACTGAAG
TaquSat11-71-R	GTGAGTGGCTGTAGACCCCTTG
TaquSat12-101-F	GGAAAACCACTGAATGACAGGAC
TaquSat12-101-R	GTTATTCTCAGACTGTGGAGATGTAG
TaquSat13-54	GCAGGATCAAGTGCAACGACAAAATCAGAC
TaquSat14-17	CAGAACCCCAAGTGACCCCAAGAAC
TaquSat15-64	GGCTGGGAAGGATGAGACCAAGCAATAG