

Table S2. RepeatMasker analysis on the consensus sequences

SPECIES	Sequence Code	Sequence	Size bp	Begin	End	Matching repeats	Repeat class/family
ECA	ECAcons70	TCAGCTGCCTTTGTATGAGAGTTTCCCAGGACGCTGTAAGAGCACTGTGGAA AGCGAGTTCTTTCCCAGCTTCCTAAAGAGCTGGAAGCAAGACAGTTTATGGC TTGTCTCCAATTGAAGGATGGAGGCAGTGCTTTGTGCCTTCCACCTCTAGAG CAATGGAGGGCACGGCTGAGAGCAAAGGGCCCTTTCTGACATAGGTGCATT CTGACACTCTCTGACCCAGTGACAAATGGCGGTTTGTA AAAAGCCTATTGTC TGCTCCTCCTAAGCATGTGGAAGCACAAATCATCTGGGCCTCGTCCCCGTTGCT TAAGGGGAAGATGTAGGCATTTCTGCTGAGCCGGTTGGCAAGGTGGAAT GTGGCAGAAGCAGAAGTCCAAAGCGGCGAGTTAAGCGCTGAAAAGAAATG GCATT	418	7	187	SAT_EC	Satellite
	ECAcons71	TGTTTCTTAGCTTCCCAAAGAGCTGGAAGCAAGATGCTGTGGGGCCCAACTC GCCCTTTGGAAAGAAGCCTGCACGTTGTGCCTTTTCAGCTCTAGGGCAAAGTA GCACACCCAGAGCAGAAAGTTCTACTTCAGCCAGATCAGGCCTGCAAAGAAA CTGCGTTTCACAGGCCCTTTGGAAGAGATGTTCCCGGTAGGCTGTAAGAGCAC TGTGCAGAGCGAGT	221	1	221	SAT_EC	Satellite
	ECAcons421+424	TATGTCAGAAAGGGCCCTTTGCTCTCAGCCGTGCCCTCCATTGCTCTAGAGGT GGAAGGCACAAAGCACTGCCTCCATCCTCAATGGGAGACAAGCCATAAAC TGTCTTGCTTCCAGCTCTTTAGGAAGCTGAGAAAGAACTCGCTTCCACAGT GCTCTTACAGCATAACGGGAAAACATCTCATACAAAGGCAGCTCAAATGCCATT TCTTCCCAGCGCTTAACTCGCCGCTTTAGGACTTCCGCTTCTGCCACAATTCC ACCTTGCCAACCCGGGCTCAGACGAAATGCCTACATCTTCCCTTAAGCAAC GGGGGATGAGGCCCAAATGATTGTGCTTCCACATGCTTAGGAGGAGCAGAC AATAGGCTTTTACAAACCACCATTTGTGCACTGGGTGAGAGAGTGTGAGAAA GCACCTATGTGAGAAAGAGCCCCCTTGCTCTCAGCCGTGCCCTCCATTGCTCT AGAGGT	475	13	217	SAT_EC	Satellite
	ECA3cons221	TCTTGCTTCCAGCTCTTTGGGAAGCTAAGAAAAAAGTCGCTCTGCACAGTG CTCTTACAGCCCTACCGGGAACATCGTCTTACAAGGCCTGTGAAACGCAATT TCTTTGCAAGCCTGATCTGGCTGAAATAGAACTTCTGCTCTGCGTGTGTACA TTGCCCTAGAGCTGAAAGGCACAAAGTGCTGCTTCTTTCCAAAGGGGCAGA TGGCCCCAAAGCA	221	1	221	SAT_EC	Satellite
	ECA4cons450	CTCATACAAAGGCCTGTGAAACGCAGTTTACTTGGAAGGCCTGCATCTGGCT GAAATAGAACTTCTGCTCTGCCATGTCCTACATTGCCCTAGAGCTGAAAGCA CAAAGTGGAAGCTTCTTCTCCAAAGGGCAGTAGGGCCCCAAAGCATCTTGC GTTCCAGCTCTTTGGGAAGCTAAGAAAAAACTCGCTCGGGCCAGTGCTCTT ACAGCCTACCGGAGAACATCGTCTTACAAGCCCTGTGAAACGCAATTTCTTT GCAGGCCTGATCTGGCTGAAGTAGAACTTCCGCGCTGAGTGTCTTACATTGC CATAAGCTGCAAGGCACAAAGTGCTGCTTCTTTAGAAAGGGGCAGATGA GCCCCAAAGCATCTTACTTCCAGCTCTTTGGGAAGCTAAGAAAACAAATCG CTCTGCACAGTGCACTTAAATCCACCGGGGACATC	450	1	450	SAT_EC	Satellite

	ECA5cons451	CCCCAAAGCATCTTGCCTTCCAGCTCTTTGGGAAGCTAAGAAAAAACTCGC TCGGGCCAGTGCTCTTACAGCCTACCGGAGAACATCGTCTTACAAGCCCTGT GAAACGCAATTTCTTTGCAGGCCTGATCTGGCTGAAGTAGAACTTCCGCGCT GAGTGTCTTACATTGCCATCAGCTGCAAGGCACAAAGTGCTGCCTTCTTTA GAAAGGGGCAGATGAGCCACAAAGCATCTTACTTCCAGCTCTTTGGGAAG CTAAGAAACAAATCGCTCTGCACAGTGCACCTAAATCCCAACGGGGAAATCC TCATACAAAGGTCTGTGAACGGCATTTACTTGCAAGGCCTGATCTGGCTGA AATATGACATTCTGGCTCTGCCATGGGCTACATTGCACATAAGCTGAAAGGC ACAAAATGCTGACTTCTTTCCATACGGGCAGAGGGT	451	1	444	SAT_EC	Satellite
CFA	CFAcons244+246	AGACACAAACCTTCCAGGCCAGCAGCTTGCATCTAAGACAGCTTCT GACAATCATCTAAAAGAAGACGTTAGAACTAAATCAACAGGCAGTGTGGA ACTGCCAAGGACAGCAACTGTGTCAACACTCAGAAGTATACCTTTAAGCCA CCTTACAACTATACCAGCTCCAATGGGAGTTACAGGCTAACAAAGATTCTACA GTAGGAATTTCCATTGCAAAAACTGTACTAACTCAGAAACACAAGCCTTCC AAGCCTGAAGCTTGACACTTGCATCTAATACAGCTTATAACAATCATCTAAAA TGAGGATGTTGGAACTAAATCCCCAGGCAGTGTGGAACCTGTGAG	357	1	338	CarSat1	Satellite
LAF	LAFcons842+936	AACAGATACTTTAAGCACAGTGAGGCCAGGGAAAACGCAGTGCACGGTAA AATCCTAGGAAAACCATGTCTTTCCCCACTTGAATGCATGTCAATTTAGCTA TTTGCCAAGAACAGAGCTCAGAGGCAACATCAGATTTAGTGCATCTCGGTGA AAGAAAAGAACACTCTGACTTCATCCATTCTCTGACGAAAGCAGTTAGAAA GAGAAAACATCAGTTGGTTTCACTTCCCTGCACTGAGCACGGCAAACCTGCC CATCGCGAAGGGAAGGTTTCCCCTAGAGAAGTGCCTTGCGGTAGCCTGTTCT GGAAGTGGAACGAGTATGCAGTGTTAGCTTAAAGCTATTGTGAAGGCTCGTTT TTGCCTCGGGAACAAAGTGCCGGTGAAATCCTTACAAGCACTGGGGCGT TTCCACAGTTCAAAGTGTGGAACACAGACTCTTTCCGATGAAGACAGCGC AGAGACAACAGCAGCCTGCATGTTTCTCAGTGAAAGGGAGAACTCCCTCTC TTCATCCAGTCTCTGAGCAAGGGAAGTGTAATGAGAGAACTTTTCTTTCC TTCCTAGTTCCCTGCAATGAATTCCTCATTTGCTCTTGCAAACGCAAGACTTCT TCTGAAAAACCACATCGCAGTGGATTTATCCTTCCAGAGGAGAACTACATAC TCTTAGTTTAAGAGATTGTGAAAGCACCCAGGGAGAAAAAGGCCTTTGTAT TCTCTTTCTGCTGAGTCTGTGAATTGGCACTTGCGAAGGCAAGGTTTCC AAGCACAAACTGCAAAGCAGTAACCTCTCTCTGGCAGAGTCAATCCTATGT AGTGTTCGGTGGACGAGATAGTGTGGGTACGCTGAGGCCAGGGAAAACA CACTGCGCAGAGAAATCCTAGCAAAGCCGAGGGCTTCCCCACAGGAACCCA TGTCCGTTTCAGTTCTTTGCCGAGAACGGAGCTCGAGGCAACATCAGATTG TGCGTATCTCAGGGAGAGAAAAGAACTGTGACTTCCCCGTTCTCTGACG AAAGCAGTTAGAAGGAGAAAAGCGTCCTTTGCTTTCCGCTTCCCGCAGGGAG	1220			No repeat detected	No repeat detected
DNO	DNAcons173	TATAGGAAAAGCATAACGGCAGGTATAGCAGCTAACTCTTTAAACCTAAATGA AACAACATGGCACATATGATTTACTTGTAGAATAAGCATTGTGTGCAGAGA TTTTGCAGCTATCTCCTTTCCTTCAGTTTTTGTGCTAACATTCCTATCTGTAAA ACTAGCATTTACAC	173			No repeat detected	No repeat detected

MDO	MDOcons528	GATCGTCGTAAGGACGCGTGCGGTAGCGGTCCTCCCCGTAGCGAGGATTTTT CTCCCCGAAAGCCAGCCGTCTGAAGTACGCGTGGAGTAGAGGTCCTCCCAT TCTGATCCTGGCGCGTTCTCACATCGAAATGGGGGAGTGTTCCAGTAGGG CATTGGTTCCCAGGGAGGGATTGATTCCTCGATGTGGACATTTTCACATTCA CAAGTCTGAGCAATTTCAAGATTACAATCCCCCTTGAGGGATCATTGGGAGA CCAGTCTCCCCACTGGTCATTTACATGATCAATTTGTAATCCTCAATGCCCT TCTAACTCGAGAGAGACACGCTCTTCCACTTTCGAAGAGGAATGAGAACCG TGAGGGAGCAAATCGGCCAGAAAAGAAAGCCAAACCAATGTTTTGCTGGGC GCATCGCGAGAAAGCCAAATTCGCGACAGTCCCTTTTGGCCTAAATGTGTA CATTTACACTCCACACCGGAAGACGCTTTCATTGCGTAGCAAGGAGTTTTCT CCCCTAT	528	5	235	ERV37_MD_LTR	LTR/ERV1
				236	477	ERV37_MD_I-int	LTR/ERV1
				495	527	ERV37_MD_LTR	LTR/ERV1
OAN	OANcons144.1+144.2	GTAAACCTCTGCCCCGCCCCACCCCTTTGCTCCCGGCCTGATCTTTCTCC CGGCTAAACCTCTGCTCCCGGCTAAACCTCTGCTCCCGGCCCGCCCTTTGCT CCCGGCCTGATCTTTCTCCCGGCTAAACCTCTGCTCCCGGCTAAACCTCTGC TCCCGGCCTG	168	6	168	MonoRep114	Satellite