

Table S1. Summary of helitron-like 3'- terminal ends found by HelSearch

Hairpin family	PC9 repeats	Location PC9 (*)	PC15 repeats	Location PC15 (*)
ACATTCGA_TG_TCGAATGT	2	scaffold_002:1177418-1181018 (+) scaffold_002:1191260-1194860 (-)	2	scaffold_04:2285016-2288616 (+) scaffold_04:2297555-2301098 (-)
AGTGAT_GA_ATCACT	2	scaffold_002:196554-200154 (+) scaffold_002:232065-235665 (-)	2	scaffold_04:3240741-3244341 (+) scaffold_04:3286520-3290120 (-)
CCCGTGC_TTC_GCACGGG	3	scaffold_091:1-659 (+) scaffold_006:1348145-1351745 (-) scaffold_004:2670410-2674010 (-)	2	scaffold_07:1391507-1395107 (+) scaffold_07:1521433-1525033 (-)
CCGTGC_GTA_GCACGG	4	scaffold_142:1-633 (+) scaffold_478:273-3873 (-) scaffold_007:1079010-1082610 (+) scaffold_044:2511-6111 (-)	10	scaffold_01:1414547-1418047 (+) scaffold_01:3751228-3754828 (+) scaffold_01:4537480-4541080 (-) scaffold_02:1934771-1938371 (-) scaffold_05:1418338-1421838 (-) scaffold_07:378958-382559 (+) scaffold_07:2179834-2183434 (+) scaffold_08:26455-30055 (-) scaffold_08:423543-427143 (-) scaffold_11:760623-764223 (+)
TCTTAG_CC_CTAAGA	2	scaffold_006:1916618-1920218 (+) scaffold_006:1959378-1962978(-)	2	scaffold_07:3019518-3023118(+) scaffold_07:3057094-3060694 (-)
AACCAG_GGC_CTGGTT			2	scaffold_06:103948-107548 (-) scaffold_06:167219-170819 (+)
AAGTGTG_CA_CACACTT			2	scaffold_06:1808078-1809368 (+) scaffold_08:1123002-1126602 (+)
CGTAGCCAC_ACT_GTGGCTACG			4	scaffold_02:2341430-2345030 (-) scaffold_02:2382940-2385356 (-) scaffold_02:2383133-2385356 (-) scaffold_02:2383195-2385356 (-)
CTTGTC_GA_GACAAG			2	scaffold_04: 387277-390877 (+) scaffold_04:591329-594929 (-)
GGGCAT_CG_ATGCCC			2	scaffold_06:350706-354306(-) scaffold_06:2250480-2254080 (-)
TCAGGG_CTT_CCCTGA			2	scaffold_02:1198298-1201899 (-) scaffold_07:41882-45482 (+)
AAATGC_CG_GCATTT	2	scaffold_212:206-3806 (+) scaffold_003:2776155-2779755 (+)		
GGACGG_TAG_CCGTCC	2	scaffold_105:1-3039 (+) scaffold_23:289293-292893 (-)		
TGTGGA_TGAG_TCCACA	2	scaffold_538:1-401 (+) scaffold_007:1677183-1680783 (-)		
TTGCTC_ATC_GAGCAA	2	scaffold_011:11207-14807 (-) scaffold_011:11359-14959 (-)		
Total number of repetitions	21		32	