

Figure 1S. Alignment of *CesA* cDNAs and gene family member-specific 3'-anchored 454-sequence-reads.

lcl	TC300086_UP	Q9LLI4_MAIZE (CesA6)_	1	-----G
lcl	TC280752_UP	Q9LLI2_MAIZE (CesA8)_	1	-----CACAGCTCATATACCAAGAGCCGGAG
lcl	TC295737_UP	Q6UDF1_MAIZE (CesA10)_	1	-----
lcl	TC287832_UP	Q9LLI6_MAIZE (CesA4)_	1	CTAGGATCAAACCGTCTCGCCGCTGCAATAATCTTTTGTCAATTCTTAATCCCTCGCGT
lcl	TC287831_UP	Q9LLI1_MAIZE (CesA9)_	1	-----
lcl	TC299205_UP	Q9LLI5_MAIZE (CesA5)_	1	-----
lcl	TC311277_UP	Q9LLI8_MAIZE (CesA2)_	1	-----
lcl	TC294544_UP	Q9LLI9_MAIZE (CesA1)_	1	-----
lcl	TC300086_UP	Q9LLI4_MAIZE (CesA6)_	2	CA-CGAGCGCGCGCCAGGCGCAACGCAACAAAGGAAACCACCGGGAGGAGAAA
lcl	TC280752_UP	Q9LLI2_MAIZE (CesA8)_	27	CAGCTTACCGAGCCAGAGCGGCGCGGCGCAACACAAACCCACCCCGCCACAGCGGC
lcl	TC295737_UP	Q6UDF1_MAIZE (CesA10)_	1	-----
lcl	TC287832_UP	Q9LLI6_MAIZE (CesA4)_	61	CGACAGCACAGCGGGAACCAACTCAGCTTCCCGCGGTTCTCCATCGGTGCGGTGCCCT
lcl	TC287831_UP	Q9LLI1_MAIZE (CesA9)_	1	-----CAACTCAGCTTCCCGCGGTTCTCCATCGGTGCGGTGCCCT
lcl	TC299205_UP	Q9LLI5_MAIZE (CesA5)_	1	-----CCTCGAGCGAGCTCCACCACTTGTCTCTGCGGAGG--T
lcl	TC311277_UP	Q9LLI8_MAIZE (CesA2)_	1	-----GCAGCAGCAACCACACTCCGCGGCATTGCAGCGAGCAAGCGGGAGGGATCTG
lcl	TC294544_UP	Q9LLI9_MAIZE (CesA1)_	1	-----AGCAGCAGAACCACTCCGCGGCATTGCAGCGATCAGCGGGAGGAATTG
lcl	TC300086_UP	Q9LLI4_MAIZE (CesA6)_	61	AGCTAGCAGCGTCTCCCTCCCTCCCTCACTCCCGTT----TGATTGCATTCCCCCC
lcl	TC280752_UP	Q9LLI2_MAIZE (CesA8)_	87	-GTGCGCATCTGAGCGGTCCCGCGCGCCGGAGACCCAGA----GGAGGGGAGGACTACG
lcl	TC295737_UP	Q6UDF1_MAIZE (CesA10)_	1	-----S
lcl	TC287832_UP	Q9LLI6_MAIZE (CesA4)_	121	GTCCTTTTCTCTCT--CCCTCCTCCCGCGTATAGTTAAGCCCGCCCGCTACTACTAC
lcl	TC287831_UP	Q9LLI1_MAIZE (CesA9)_	43	GTCCTTTTCTCTC----CTCCACCTCCCTAGTCCCTC--CTCCCGCCCGCTCATAGC
lcl	TC299205_UP	Q9LLI5_MAIZE (CesA5)_	38	GAACACTGCGTTAG--GCCACTGCCACCGGTGGGCTGC----CTCTGCCTTGCCTC
lcl	TC311277_UP	Q9LLI8_MAIZE (CesA2)_	56	GGGCATGTGCGCTCCCTCCCGCTCCCGTCCGATCTA--GAGGGCCGACGGGCTGATT
lcl	TC294544_UP	Q9LLI9_MAIZE (CesA1)_	51	GGGCATGTGGT----CGCCAACCGCTCGGATCTA--GAGGGCCGACGGGCGGATT
lcl	TC300086_UP	Q9LLI4_MAIZE (CesA6)_	116	CAGACGCGCGTA--CGCGCGCGCCGCAACCA--CGCTTGCCTCCGGATCTGGAGATCTG
lcl	TC280752_UP	Q9LLI2_MAIZE (CesA8)_	141	TGCATTTTCTCTGCGCCCGCCCGCGGTTCC--TGCCGAGC--CAGATCCGGCGGGCGG
lcl	TC295737_UP	Q6UDF1_MAIZE (CesA10)_	2	UBUNITCMPLTECTCCGCCACAGCCCGCTCGCTCCGTCGGCAATC----GGCATG
lcl	TC287832_UP	Q9LLI6_MAIZE (CesA4)_	180	TACTAGCAGCAGAGCGCTCTCGCAGCGGAGATGCAGTGTGATCCGTCGCC--GCTCG
lcl	TC287831_UP	Q9LLI1_MAIZE (CesA9)_	96	TACTACTAGTAGACACCGCTCGCAGCGGAGATGCAGTGTGATCCGTCGCCCTGCTCG
lcl	TC299205_UP	Q9LLI5_MAIZE (CesA5)_	90	TCCCGCCAGCG--CGCGCGCCGG--GGCGATTCGCGCGCCGACCGCG--GAGG
lcl	TC311277_UP	Q9LLI8_MAIZE (CesA2)_	115	GCCCTCCCGCGGCTCCGTTGCTGGTG----GAGTGTGAATCGGTGTGTGATAGGAG
lcl	TC294544_UP	Q9LLI9_MAIZE (CesA1)_	104	GCTCTCCCGCGGCTCCGTTGCTGGTCTCGTTCGCTGCTGAGCCGCTCTCGGTGCGAG
lcl	TC300086_UP	Q9LLI4_MAIZE (CesA6)_	172	GTAGCGCAGG----GGGATGGAAGCCAGCGCGGGCTGCT--GCCGGCTCGCACAAAC
lcl	TC280752_UP	Q9LLI2_MAIZE (CesA8)_	198	G--GGCGGGGGG--CTCAGATGGAAGGCTAGCGGGGGCTGCTG--GCCGGCTCGCATTAAC
lcl	TC295737_UP	Q6UDF1_MAIZE (CesA10)_	58	G--ACGCGGCT--C-----GGTCAACGGTGGCTCC--GCGGGCTCGCACATG
lcl	TC287832_UP	Q9LLI6_MAIZE (CesA4)_	239	GATCTCGGACTGCTGCGGCTC--TCCCAGGCCCGCGGCTCCAGCCAGCTCCCTCAG
lcl	TC287831_UP	Q9LLI1_MAIZE (CesA9)_	156	GATCTCGGAGTGTGCGGACTTGTCTCCCTTCCGCTCTGCTAGGCCAGCTCTT--CTC
lcl	TC299205_UP	Q9LLI5_MAIZE (CesA5)_	141	GAAGCCAGGATCGGCTGATC--GGCGGGTCCCGGCTT--GTGAATCTGTC--GAG
lcl	TC311277_UP	Q9LLI8_MAIZE (CesA2)_	169	GAGCG--G--CGAGATGGCGGCCAACAGGGGATGGTG--GCAGGCTTCAACAC
lcl	TC294544_UP	Q9LLI9_MAIZE (CesA1)_	164	CAGCGGGAGGAGCGGAGATGGCGGCCAACAGGGGATGGTG--GCGGGCTCGCACAAAC
lcl	TC300086_UP	Q9LLI4_MAIZE (CesA6)_	225	CGGAACGAGCTCTCTCATCCGCGCG--ATGGCGAGCGAG--GCCGAA----GCCCAT
lcl	TC280752_UP	Q9LLI2_MAIZE (CesA8)_	253	CGGAACGAGCTGTGGTATCCGCGCG--ACCGGAGTCCGGAGCGCGG--GGCGGC
lcl	TC295737_UP	Q6UDF1_MAIZE (CesA10)_	103	CGGACGAGCTGCATGTATGCGCGCC--CGCAGGAGCGAAGCCAG--GTCCGG
lcl	TC287832_UP	Q9LLI6_MAIZE (CesA4)_	298	GTTTCTCGCGGAGC--TCGCTTCCATGGAAGGGCGAGCGGAGCGGTC--AAGTCGGG
lcl	TC287831_UP	Q9LLI1_MAIZE (CesA9)_	215	GGTCTGCGGAGC--TCGCTTCCATGGAAGGGCGAGCGGAGCGGTC--AAGTCGGG
lcl	TC299205_UP	Q9LLI5_MAIZE (CesA5)_	196	GGTC--GGAT--TGGTCCGCAATGACGGCGGCG--ACGCCAGC--AATTCGGG
lcl	TC311277_UP	Q9LLI8_MAIZE (CesA2)_	218	CGCAACGAGTCTCTCATGATCCGCGCG--ACGGCGAGCGGCTGTCCCGGCTAAGCCAC
lcl	TC294544_UP	Q9LLI9_MAIZE (CesA1)_	222	CGCAACGAGTCTCTCATGATCCGCGCG--ACGGCGATCTGCGCGGCTCCGCTAAGCCAC
lcl	TC300086_UP	Q9LLI4_MAIZE (CesA6)_	278	GGACAGCGGACGGCCAGG----TGTGCCAGATTTGCGGCGACGACGTGGCGCGAC
lcl	TC280752_UP	Q9LLI2_MAIZE (CesA8)_	307	GGCGCGCGCGCGCGGGCGGAGGGCGCGTGCAGATATGCGGCGACGAGGTCCGGCTGGGC
lcl	TC295737_UP	Q6UDF1_MAIZE (CesA10)_	157	AGCGC--CGACGTGAGA----CGTGCCCTGTGCGCCGACGAGGTCCGGACCGGG
lcl	TC287832_UP	Q9LLI6_MAIZE (CesA4)_	353	GAGCGCGGTCGCGGACAGG----TGTGCCAGATCTGCGGCGACGCGTGGGCACACCG
lcl	TC287831_UP	Q9LLI1_MAIZE (CesA9)_	270	GAGCGCGGCGGAGGGCAGG----TGTGCCAGATCTGCGGCGATGCGGCGGACACTACG
lcl	TC299205_UP	Q9LLI5_MAIZE (CesA5)_	243	GAAGCATGCGCGGGCAGG----TGTGCCAGATCTGCGGCGACGCGTGGGCACCGCG
lcl	TC311277_UP	Q9LLI8_MAIZE (CesA2)_	277	GAAGCATGCGGATGGGCAGG----TGTGCCAGATTTGTGGCGACACTGTGGCGTTTCA
lcl	TC294544_UP	Q9LLI9_MAIZE (CesA1)_	281	GAAGCATGCGGATGGGCAGG----TGTGCCAGATTTGCGGCTGACTCTGTGGGTGTTTCA

lcl|TC300086_UP|Q9LLI4_MAIZE (CesA6)_ 333 GCGAGGGGGAGCCGTTTCGTGCGCTGCAACGAGTGCCTTTCCCGTCTGCGCGGACTGCG
lcl|TC280752_UP|Q9LLI2_MAIZE (CesA8)_ 367 TTCGACGGGGAGCCCTTCGTGCGTGCAACGAGTGCCTTTCCCGTCTGCGCGCGCTGCG
lcl|TC295737_UP|Q6UDF1_MAIZE (CesA10)_ 208 GAGGACGGGCGAGCCCTTCGTGCGTGCGCGAGTGCCTTTCCCGTCTGCGCGCGCTGCG
lcl|TC287832_UP|Q9LLI6_MAIZE (CesA4)_ 408 GCGGAGGGGGAGCTTCTTCGCGCCTGCGACGTGTGCGGGTTTCCGCTGTGCGCGCGCTGCG
lcl|TC287831_UP|Q9LLI1_MAIZE (CesA9)_ 325 GCGGAGGGAGACTCTTCACCGCCTGCGACGTGTGCGGGTTTCCGCTGTGCGCGCGCTGCG
lcl|TC299205_UP|Q9LLI5_MAIZE (CesA5)_ 298 GCGGAGGGGAGCTTCTTCACCGCCTGCGACGTGTGCGGGTTTCCGCTGTGCGCGCGCTGCG
lcl|TC311277_UP|Q9LLI8_MAIZE (CesA2)_ 332 GCCACTGGTGCATCTTTTGTTCCTGCAATGAGTGTGCTTTCCCGTCTGCGCGCGCTGCG
lcl|TC294544_UP|Q9LLI9_MAIZE (CesA1)_ 336 GCCACTGGTGCATCTTTTGTTCCTGCAATGAGTGTGCTTTCCCGTCTGCGCGCGCTGCG

lcl|TC300086_UP|Q9LLI4_MAIZE (CesA6)_ 393 TACGAGTACGAGCGCCGCGAGGGCCAGCAGAACGCCCCAGTGCAGAGACCCTTCAAG
lcl|TC280752_UP|Q9LLI2_MAIZE (CesA8)_ 427 TACGAGTACGAGCGCCGCGAGGGCTCGCAGGCTGCCCCGAGTGCAGAGACCCTTCAAG
lcl|TC295737_UP|Q6UDF1_MAIZE (CesA10)_ 268 TACGAGTACGAGCGCAGCGAGGGCCAGCAGTGTGCCCCGAGTGCAGAGACCCTTCAAG
lcl|TC287832_UP|Q9LLI6_MAIZE (CesA4)_ 468 TACGAGTACGAGCGCAAGGACGGCAGCAGGCTGCCCCAGTGCAGAGACCCTTCAAG
lcl|TC287831_UP|Q9LLI1_MAIZE (CesA9)_ 385 TACGAGTACGAGCGCAAGGACGGCAGCAGGCTGCCCCAGTGCAGAGACCCTTCAAG
lcl|TC299205_UP|Q9LLI5_MAIZE (CesA5)_ 358 TACGAGTACGAGCGCAAGGACGGCAGCAGGCTGCCCCGAGTGCAGAGACCCTTCAAG
lcl|TC311277_UP|Q9LLI8_MAIZE (CesA2)_ 392 TATGAGTACGAGCGCAAGGACGGCAGCAGTGTGCCCCGAGTGCAGAGACCCTTCAAG
lcl|TC294544_UP|Q9LLI9_MAIZE (CesA1)_ 396 TATGAGTACGAGCGCAAGGAGGGCAGCAGTGTGCCCCGAGTGCAGAGACCCTTCAAG

lcl|TC300086_UP|Q9LLI4_MAIZE (CesA6)_ 453 CGCCCTCAAGGGGTCGCGCGCTGCCCGGGGACGAGGAGGAGGACGGCTCGACGACCTG
lcl|TC280752_UP|Q9LLI2_MAIZE (CesA8)_ 487 CGCCCTCAAGGGCTGCCCGCGGTTGCCCGGACGAGGAGGAGGACGGCTCGACGACCTG
lcl|TC295737_UP|Q6UDF1_MAIZE (CesA10)_ 328 CGCCCAAGGGGTCGCGCGGTTGCAAGGGGACGAGGAGGAGGCTCGGAGAT---CGGAGAT---
lcl|TC287832_UP|Q9LLI6_MAIZE (CesA4)_ 528 CGCCCAAGGGGAGCCCGCGGATCCCTGGGGAGGAGGAGACGACTCTGATGCGGAT---
lcl|TC287831_UP|Q9LLI1_MAIZE (CesA9)_ 445 CGCCCAAGGGGAGTCCAGCGATCCAGGGGAGGAGGAGACGACTCTGATGCGGATGAT
lcl|TC299205_UP|Q9LLI5_MAIZE (CesA5)_ 418 CGCCCAAGGGGAGCCCGCGGATCCAGTACAGGCTGAGGAAATGAGGATGCGGATGCGGAT
lcl|TC311277_UP|Q9LLI8_MAIZE (CesA2)_ 452 AGACAGAAAGGTAGCCCTCGAGTTCATGCTGATGATGAGGAGGAGATGTTGATGACCTG
lcl|TC294544_UP|Q9LLI9_MAIZE (CesA1)_ 456 AGACAGAAAGGTAGCCCTCGAGTTCATGCTGATGAGGATGAGGAGATGTTGATGACCTA

lcl|TC300086_UP|Q9LLI4_MAIZE (CesA6)_ 513 GAGAACGAGTTCACATGGAG-----GACAAA-----GCAGGACTCCAGT
lcl|TC280752_UP|Q9LLI2_MAIZE (CesA8)_ 547 GAGGCGGAGTTCGCGCTGCAGGACGGCGCCCCCAAG-----GGAGGACCCGAGT
lcl|TC295737_UP|Q6UDF1_MAIZE (CesA10)_ 381 --GGACGACTTC-----A-----GGACCA-----GT
lcl|TC287832_UP|Q9LLI6_MAIZE (CesA4)_ 585 --AGCGACTTCAATTCCTTGCATCTGGCAATGAGGACCCAGAAGCAGAGATGCGGAC
lcl|TC287831_UP|Q9LLI1_MAIZE (CesA9)_ 505 GCTAGCGACTTCAACTACCTGCACTCTGGCAATGACGACCAGAAGCAGAGATGCTGAC
lcl|TC299205_UP|Q9LLI5_MAIZE (CesA5)_ 478 GTGACTGACTTCAACTACCAAGCACTTGGCAACGAGGATCAGAAGCAGAGATGCTGAG
lcl|TC311277_UP|Q9LLI8_MAIZE (CesA2)_ 512 GACAAATGAATTCAACTAT--AAGCAA--GGCAATGGG-----AAGGCC-----C
lcl|TC294544_UP|Q9LLI9_MAIZE (CesA1)_ 516 GACAAATGAATTCAACTAC--AAGCAA--GGCAGTGGG-----AAGGCC-----C

lcl|TC300086_UP|Q9LLI4_MAIZE (CesA6)_ 553 ACCTGCGCGAGTCCATGCTCCACGCGCAGATGAGCTAGCGCGCGCGCGGACCTCGACG
lcl|TC280752_UP|Q9LLI2_MAIZE (CesA8)_ 599 ACCTGCGCGAGTCCATGCTCCAGGCGCGAGATGAGCTAGCGCGCGCGCGGAC-----
lcl|TC295737_UP|Q6UDF1_MAIZE (CesA10)_ 401 TCCCGCCAG-----AGCCCAAGAACCTCA-----CGA-----
lcl|TC287832_UP|Q9LLI6_MAIZE (CesA4)_ 642 AGAATGCGCAGCTGGCGCATGAACGTTGGGGCAGCGGGATGTTGGTGGCCCAAGTAT
lcl|TC287831_UP|Q9LLI1_MAIZE (CesA9)_ 565 AGAATGCGCAGCTGGCGCATGAATGCTGGGGCAGCGGGATGTTGGCCGCCCAAGTAT
lcl|TC299205_UP|Q9LLI5_MAIZE (CesA5)_ 538 AGAATGCTTCACTTGGCGGACAACTGACCTGGCAGT---GATATTGGCTGGCTAAGTAT
lcl|TC311277_UP|Q9LLI8_MAIZE (CesA2)_ 553 AGAGTG--GCAGCTT-----CAAGGAGAT---GACGCTGATCTGTCTTCTCT
lcl|TC294544_UP|Q9LLI9_MAIZE (CesA1)_ 557 AGAGTG--GCAACTG-----CAAGGAGAT---GATGCTGATCTGTCTTCTCT

lcl|TC300086_UP|Q9LLI4_MAIZE (CesA6)_ 613 G-----CGTCCCAGCCCA--TTCCATCCCATCCCCA-----ATCTT
lcl|TC280752_UP|Q9LLI2_MAIZE (CesA8)_ 652 G-----CGCACCCCGGC---TTCAGCCCCGTCCCCA-----ACGTG
lcl|TC295737_UP|Q6UDF1_MAIZE (CesA10)_ 432 G-----CTGTTCGCG---TTCGACGTC-TACTCG-----GAGAA
lcl|TC287832_UP|Q9LLI6_MAIZE (CesA4)_ 702 GACAGTGGCGAGATCGGGCTTACCAAGTATGACAGTGGCGAGATTCCTCGGGGATACATC
lcl|TC287831_UP|Q9LLI1_MAIZE (CesA9)_ 625 GACAGTGGTGGAGATCGGGCTTACCAAGTACGACAGTGGTGGATCCCTCGGGGATACATC
lcl|TC299205_UP|Q9LLI5_MAIZE (CesA5)_ 595 GACAGCGGTGAATTTGGGCAATGGGAAGTATGACAGTGGTGGATCCCTCGTGGATATATC
lcl|TC311277_UP|Q9LLI8_MAIZE (CesA2)_ 596 G-----CTGCCATGACCCACACCTTCG--GATTCC-----ACGCC
lcl|TC294544_UP|Q9LLI9_MAIZE (CesA1)_ 600 G-----CTGCCATGACCCACATCTCCG--GATTCC-----ACGCC

lcl|TC300086_UP|Q9LLI4_MAIZE (CesA6)_ 648 CCCCTCCACCAACGCAAGATGTCGATGACATCCCGGCCGACGAGCACGCCCTTGTG
lcl|TC280752_UP|Q9LLI2_MAIZE (CesA8)_ 685 CCGCTCCACCAACGCGCCAGATGTTGATGACATCCCGGCCGAGGAGACGCGCTCTGTG
lcl|TC295737_UP|Q6UDF1_MAIZE (CesA10)_ 462 CGCGAGCACCGCGCCAGAAATGCGGGACGG-----GTGGCCAGACGC-----TG
lcl|TC287832_UP|Q9LLI6_MAIZE (CesA4)_ 762 CCATCAGTCACTAACAGCCAGATCTCAGGAGAAATCCC--TGGTCTTCCCCTGACCATC
lcl|TC287831_UP|Q9LLI1_MAIZE (CesA9)_ 685 CCGTCACTCACTAACAGCCAGATTTCCGGAGAAATCCC--TGGTCTTCCCCTGACCATC
lcl|TC299205_UP|Q9LLI5_MAIZE (CesA5)_ 655 CCGTCACTCACTAACAGCCAGATCTCAGGAGAGATTC--TGGAGCTTCCCCTGA---TC
lcl|TC311277_UP|Q9LLI8_MAIZE (CesA2)_ 630 TTCAAGTGCACAA---CAGATATCTGGAGAGATCCC--TGATGCTTCCCCTGACCGTCT
lcl|TC294544_UP|Q9LLI9_MAIZE (CesA1)_ 634 TGCAAGCGCTCAA---CAGATATCTGGAGAGATCCC--TGATGCTTCCCCTGACCGTCT

lcl	TC300086_UP	Q9LLI4_MAIZE (CesA6)	708	CCCTGCTTCTG-----GGTGGCGGGGGCAAGAGGATTCAACCTCTCCGGTACCG
lcl	TC280752_UP	Q9LLI2_MAIZE (CesA8)	745	CCGTCTTACATAGCGGGCGGGCGCGGGCAAGAGGATCCACCCGCTCCCTTTGCGA
lcl	TC295737_UP	Q6UDF1_MAIZE (CesA10)	508	TCGTCTTACC-----GGAGCGTGGCGGGAGGA-----CCTGGAGCGC
lcl	TC287832_UP	Q9LLI6_MAIZE (CesA4)	820	ATATGATGTC-----CCCAACTGGGAACATTGGCAAGCGTGTC---TCCATTTCCCTATGTG
lcl	TC287831_UP	Q9LLI1_MAIZE (CesA9)	743	ATATGATGTC---TCCTACTGGGAACATTGGCAGGGCGC---CCCATTTCCCTATATG
lcl	TC299205_UP	Q9LLI5_MAIZE (CesA5)	710	ATATGATGTC---TCCTGTTGGGAACATTGGCAGGGCTGACATCAAITTCCCTATGTAT
lcl	TC311277_UP	Q9LLI8_MAIZE (CesA2)	684	ATTCTATCCGCA-GTCCAACATCGAGCTATGTTGATCCAGCGTTCCAGTTCC-TGTGAG
lcl	TC294544_UP	Q9LLI9_MAIZE (CesA1)	688	ATTCTATCCGCA-GTCCAACATCGAGCTATGTTGATCCAGCGTTCCAGTTCC-TGTGAG
lcl	TC300086_UP	Q9LLI4_MAIZE (CesA6)	759	GATCCCAACCTTCTGTGCAACCGAGGCTATGGACCTTCCAAAGGATCTCCCGCAATAT
lcl	TC280752_UP	Q9LLI2_MAIZE (CesA8)	805	GATCCCAACCTTCCAGTGAACCGGATCATGGACCCGTCGAAGGATCTGCGCGCTAC
lcl	TC295737_UP	Q6UDF1_MAIZE (CesA10)	550	GA-----GAGGGAGATGGAG-----
lcl	TC287832_UP	Q9LLI6_MAIZE (CesA4)	873	AATC-----ATTGCCAAATCCGTCAAGGGAGTT---CTCTGGT
lcl	TC287831_UP	Q9LLI1_MAIZE (CesA9)	796	AATC-----ATTCACTAAATCCGTGAGGGAAT---CTCTGGT
lcl	TC299205_UP	Q9LLI5_MAIZE (CesA5)	766	AATC-----ATTCTCAAACCCATCGAGGGAGTT---CTCCGGT
lcl	TC311277_UP	Q9LLI8_MAIZE (CesA2)	742	GATT-----GT---GGACCCCTCGAAGGACTTGAATTCCTAT
lcl	TC294544_UP	Q9LLI9_MAIZE (CesA1)	746	GATT-----GT---GGACCCCTCGAAGGACTTGAATTCCTAT
lcl	TC300086_UP	Q9LLI4_MAIZE (CesA6)	819	GGCTACGGGAGCTAGCATGGAAGGAGAGGATCGAGAGCTGGAAGCAGAAGCAGGA---G
lcl	TC280752_UP	Q9LLI2_MAIZE (CesA8)	865	GGATATGGCAGCCTGGCCTGGAAGGAGACAATCGAGCGCTGGAAGCAGAAGCAGGA---G
lcl	TC295737_UP	Q6UDF1_MAIZE (CesA10)	565	-----GGGAGCTGAGTGGGAAGGACCGGATCGACAAGTGGGAAGACCAGCAGGA---G
lcl	TC287832_UP	Q9LLI6_MAIZE (CesA4)	909	AGCATTTGGGAATGTTGCTTGGAAAAGAGAGGGTTGATCGCTGGAAATGAAGCAGGACAAG
lcl	TC287831_UP	Q9LLI1_MAIZE (CesA9)	832	AGCCTTGGGAATGTTGCTTGGAAAAGAGAGGGTTGATCGCTGGAAATGAAGCAGGACAAG
lcl	TC299205_UP	Q9LLI5_MAIZE (CesA5)	802	AGCCTTGGCAATGTTGCTTGGAAAAGAGAGGGTTGATCGCTGGAAAATGA---AGGATAAA
lcl	TC311277_UP	Q9LLI8_MAIZE (CesA2)	776	GGGCTTAAATAGTGTGACTGGAAGGAAAGAGTTGAGAGCTGGAGGTTTAAACAGGACAAA
lcl	TC294544_UP	Q9LLI9_MAIZE (CesA1)	780	GGGCTTAAATAGTGTGACTGGAAGGAAAGAGTTGAGAGCTGGAGGTTTAAACAGGACAAA
lcl	TC300086_UP	Q9LLI4_MAIZE (CesA6)	876	AGGATGCACAGACAAAGAAC-----GATGGCGCGGG-----
lcl	TC280752_UP	Q9LLI2_MAIZE (CesA8)	922	CGCTGCGACCATCTCAGAGC-----GAGGGTGGCGGT-----
lcl	TC295737_UP	Q6UDF1_MAIZE (CesA10)	616	AAGAGGGCAAGCTCAACCAC-----GACACACGCCAC-----
lcl	TC287832_UP	Q9LLI6_MAIZE (CesA4)	969	GGGACGATTTCCATGACGAATGGCACAAACATTGCTCCCTCTGAGGGTGGGGTGTGGT
lcl	TC287831_UP	Q9LLI1_MAIZE (CesA9)	892	GGACCAATTTCCATGACGAATGGCACAAACATTGCTCCCTCTGAGGGTGGGGTGTGGT
lcl	TC299205_UP	Q9LLI5_MAIZE (CesA5)	859	GGTCAATTTCCATGACCAATGGAACAAACATTGCTCCATCAGAGGGGTGGAGTTGCT
lcl	TC311277_UP	Q9LLI8_MAIZE (CesA2)	836	AATATGTTCAACTGACTAAT---AAATATC---CAGAGGCTGAGGAG---A
lcl	TC294544_UP	Q9LLI9_MAIZE (CesA1)	840	AATATGATCAAGTGACTAAT---AAATATC---CAGAGGCTGAGGAG---A
lcl	TC300086_UP	Q9LLI4_MAIZE (CesA6)	910	-AC---GA-----TGCTGATGATGCAGATCTAC---CACTAATGGATGAAGCTTGA
lcl	TC280752_UP	Q9LLI2_MAIZE (CesA8)	956	-ATTGGGA-----TGCGGACGATGCAGATCTGC---CACTAATGGATGAAGCTTGG
lcl	TC295737_UP	Q6UDF1_MAIZE (CesA10)	650	-ACGACGA-----CGCAACCAACGAGACGATACATCTGCTTGGCGAGCCCGA
lcl	TC287832_UP	Q9LLI6_MAIZE (CesA4)	1029	GATATTGATGCATCACTGATTAACAACATGGAAGATCCCTATTGAACGACGAAACTCGA
lcl	TC287831_UP	Q9LLI1_MAIZE (CesA9)	952	GATATTGATGCATCACTGATTAACAACATGGAAGATCCCTATTGAACGATGAAACTCGC
lcl	TC299205_UP	Q9LLI5_MAIZE (CesA5)	919	GATATTGATGCTTCTACTGATATAACATGGAAGATCCCTACTGAAATGATGAAACTCGC
lcl	TC311277_UP	Q9LLI8_MAIZE (CesA2)	879	-ACATGGAGGG---GACTGCTCAAATGAGAAAGATATGCAATGTTGATGATGCACGC
lcl	TC294544_UP	Q9LLI9_MAIZE (CesA1)	885	GACATGGAGGG---GACTGCTCAAATGAGAAATATGCAATGTTGATGATGCACGC
lcl	TC300086_UP	Q9LLI4_MAIZE (CesA6)	954	CAGCCATTTGCCAGAAAGATCCCGCTTCTTCAAGCCAAATCAACCCCTATAGGATGATT
lcl	TC280752_UP	Q9LLI2_MAIZE (CesA8)	1003	CAGCCATTTGCCAGAAAGTCCCTATATCATCAAGCCCAATTAATCCCTACAGGATGATT
lcl	TC295737_UP	Q6UDF1_MAIZE (CesA10)	700	CAGCCGCTGTGGCCAAAGTTCCCATCCGCTCGAGCATGATCAACCCTGATCCGATCTC
lcl	TC287832_UP	Q9LLI6_MAIZE (CesA4)	1089	CAGCCTCTATCTAGGAAAGTCCCACTTCTTCTCCAGGATAAATCCATACAGGATGGTC
lcl	TC287831_UP	Q9LLI1_MAIZE (CesA9)	1012	CAGCCTCTATCTAGGAAAGTCCCACTTCTTCTCCAGGATAAATCCATACAGGATGGTC
lcl	TC299205_UP	Q9LLI5_MAIZE (CesA5)	979	CAACCTCTATCTAGAAAGTGCCCAATTCCTTCAATCCAGAAATTAATCCGTACAGATGGTG
lcl	TC311277_UP	Q9LLI8_MAIZE (CesA2)	935	CTACCTTTGAGCGCAATTTGCCAATTTCTCAAACCGCTCAAAGCTTTACCGGATAGTA
lcl	TC294544_UP	Q9LLI9_MAIZE (CesA1)	942	CTACCTTTGAGCGCTATCTGTCGCAATTTCTCAAACCGCTCAAAGCTTTACCGGATAGT
lcl	TC300086_UP	Q9LLI4_MAIZE (CesA6)	1014	ATAATTAATTCGGCTAGTGGTTTGTGTTTCTTCTTCCACTACCGAGTGATGCATCCGGTG
lcl	TC280752_UP	Q9LLI2_MAIZE (CesA8)	1063	ATCGTTATCCGTTGTTGGTTTGTGCTTTCTTCTTCCACTACCGAGTGATGCATCCGGTG
lcl	TC295737_UP	Q6UDF1_MAIZE (CesA10)	760	ATCGTGCTCCGCTGGTGGTCTCTGCTTCTTCTCAAGTTCGGATCAGCAGCCCGCC
lcl	TC287832_UP	Q9LLI6_MAIZE (CesA4)	1149	ATTGTGCTCCGATGATTTGTTCTAACCATCTTCTTGGACTACCGTATCACAAATCCTGTG
lcl	TC287831_UP	Q9LLI1_MAIZE (CesA9)	1072	ATTGTGCTCCGATGATTTGTTCTAACCATCTTCTTGGACTACCGATCACAAATCCTGTG
lcl	TC299205_UP	Q9LLI5_MAIZE (CesA5)	1039	ATTGTGCTACGTTTGGCTGTTCTATGCATATTCTTGGCTACCGTATCACACATCCGTGTG
lcl	TC311277_UP	Q9LLI8_MAIZE (CesA2)	995	ATCATTTCCGCTTATCATCTGTGCTTCTTCTTCCAATATCGFATCATCTCCAGTG
lcl	TC294544_UP	Q9LLI9_MAIZE (CesA1)	1002	ATCATTTCCGCTTATCATCTGTGCTTCTTCTTCCAATATCGFATCATCTCCAGTG

lcl	TC300086_UP	Q9LLI4_MAIZE (CesA6)	1074	CCTGATGCATTTGCTTTATGGCTCATATCTGTGATCTGTGAATTTGGTTGGCATGTCT
lcl	TC280752_UP	Q9LLI2_MAIZE (CesA8)	1123	AAAGATGCATTTGCATTTGTGGCTCATATCTGTGAATCTGTGAATCTGGTTTGGCATGTCC
lcl	TC295737_UP	Q6UDF1_MAIZE (CesA10)	820	ACGGAAGCGGTGGCTCTGTGGCTGGCTCGTCAATCTGCGAGCTCTGGTTGCGCTTCTCC
lcl	TC287832_UP	Q9LLI6_MAIZE (CesA4)	1209	CGCAATGCATACCATTATGGCTTCTATCTGTTATATGTGAGATCTGGTTTGGCTTTTCG
lcl	TC287831_UP	Q9LLI1_MAIZE (CesA9)	1132	CGTAATGCATACCACCTGTGGCTTCTATCTGTTATATGTGAGATCTGGTTTGGCTTTTCC
lcl	TC299205_UP	Q9LLI5_MAIZE (CesA5)	1099	AACAATGCATATCCACTGTGGCTTTTATCGCTCATATGTGAGATCTGGTTTGGCTTTGTCC
lcl	TC311277_UP	Q9LLI8_MAIZE (CesA2)	1055	CGTAATGCATTTATGGATTTGTGGCTATATCTGTTATCTGTGAGCTCTGGTTTGGCTTGTCC
lcl	TC294544_UP	Q9LLI9_MAIZE (CesA1)	1062	CCTGATGCATTTATGGATTTATGGCTATATCTGTTATCTGCGAGCTCTGGTTTGGCTTGTCT
lcl	TC300086_UP	Q9LLI4_MAIZE (CesA6)	1134	TGGATTCTTGAC CAGTTTCCAAAGTGTTTCCATTCGAGAGGGAAACCTATCTTGACCGG
lcl	TC280752_UP	Q9LLI2_MAIZE (CesA8)	1183	TGGATTCTTGAC CAGTTTCCAAAGTGTTTCCATTCGAGAGGGAAACCTATCTTGACCGG
lcl	TC295737_UP	Q6UDF1_MAIZE (CesA10)	880	TGGATCTGAGC CAGCTCCAAAGTGTTTCCAAAGTGTTTCCATTCGAGAGGGAAACCTATCTTGACCGG
lcl	TC287832_UP	Q9LLI6_MAIZE (CesA4)	1269	TGGATATGGATCAGTTCCCAAGTGTTTCCAAATCAACCGGAGACGTACCTTGATAGG
lcl	TC287831_UP	Q9LLI1_MAIZE (CesA9)	1192	TGGATATGGATCAGTTCCCAAGTGTTTCCAAATCAACCGGAGACGTACCTTGATAGG
lcl	TC299205_UP	Q9LLI5_MAIZE (CesA5)	1159	TGGATTTGGATCAGTTCCCAAGTGTTTCCCAATCAACCGTGAACATACCTTGATAGA
lcl	TC311277_UP	Q9LLI8_MAIZE (CesA2)	1115	TGGCTTCTAGATCAGTTCCCAAAATGGTATCCCAATCAACCGTGAACATACCTTGATAGA
lcl	TC294544_UP	Q9LLI9_MAIZE (CesA1)	1122	TGGCTTCTAGATCAGTTCCCAAAATGGTATCCCAATCAACCGTGAACATACCTTGATAGA
lcl	TC300086_UP	Q9LLI4_MAIZE (CesA6)	1194	CTGAGTTTAAAGTTTGAACAAGGAGGCAATCCTTCTCAACTCGCCCTTGTGATTTCTTT
lcl	TC280752_UP	Q9LLI2_MAIZE (CesA8)	1243	TGTTCACCTAAGGTTTGACAAGGAGGTCACCCCTCTCAGCTTGCCTCAATCGACTTCTTT
lcl	TC295737_UP	Q6UDF1_MAIZE (CesA10)	940	CTGGCCCTCCTGGTACGACCTGAGGGCGAGGCTGCTGCTGCTCCCATCGACTTCTTC
lcl	TC287832_UP	Q9LLI6_MAIZE (CesA4)	1329	CTGGCATTAAAGTTATGACCGGGAAGGTGAGCCATCTCAGTTGGCTCTGTTGACATTTTC
lcl	TC287831_UP	Q9LLI1_MAIZE (CesA9)	1252	CTGGCATTAAAGTTATGACCGGGAAGGTGAGCCATCTCAGTTGGCTCTGTTGACATTTTC
lcl	TC299205_UP	Q9LLI5_MAIZE (CesA5)	1219	CTGGCTTTAAGGTTATGACCGGAAGGTGAACCATCTCAATAGCTCTCTTGTGATATTTT
lcl	TC311277_UP	Q9LLI8_MAIZE (CesA2)	1175	CTTGCATTGAGGTATGATAGAGGGAGAGCCATCAGCTGGCTCCCATTTGATGCTTTT
lcl	TC294544_UP	Q9LLI9_MAIZE (CesA1)	1182	CTTGCATTGAGGTATGATAGAGGGAGAGCCATCAGCTGGCTCCCATTTGATGCTTTT
lcl	TC300086_UP	Q9LLI4_MAIZE (CesA6)	1254	GTCAGTACGGTGGATCCCTGAAGGAACCTCCATTTGGTCACTGCTAATACTGTTCTATCT
lcl	TC280752_UP	Q9LLI2_MAIZE (CesA8)	1303	GTCAGTACGGTGGATCCCTGAAGGAACCTCCATTTGGTCACTGCTAATACTGTTCTATCT
lcl	TC295737_UP	Q6UDF1_MAIZE (CesA10)	1000	GTCAGTACGGTGGATCCCTGAAGGAACCTCCATTTGGTCACTGCTAATACTGTTCTATCT
lcl	TC287832_UP	Q9LLI6_MAIZE (CesA4)	1389	GTCAGTACGGTGGATCCCTGAAGGAACCTCCATTTGGTCACTGCTAATACTGTTCTATCT
lcl	TC287831_UP	Q9LLI1_MAIZE (CesA9)	1312	GTCAGTACGGTGGATCCCTGAAGGAACCTCCATTTGGTCACTGCTAATACTGTTCTATCT
lcl	TC299205_UP	Q9LLI5_MAIZE (CesA5)	1279	GTCAGTACGGTGGATCCCTGAAGGAACCTCCATTTGGTCACTGCTAATACTGTTCTATCT
lcl	TC311277_UP	Q9LLI8_MAIZE (CesA2)	1235	GTCAGTACGGTGGATCCCTGAAGGAACCTCCATTTGGTCACTGCTAATACTGTTCTATCT
lcl	TC294544_UP	Q9LLI9_MAIZE (CesA1)	1242	GTCAGTACGGTGGATCCCTGAAGGAACCTCCATTTGGTCACTGCTAATACTGTTCTATCT
lcl	TC300086_UP	Q9LLI4_MAIZE (CesA6)	1314	ATCCTTTCTGTTGATTATCCAGTTGATAAGGTTTCATGCTAGCTTTCTGATGATGGTCT
lcl	TC280752_UP	Q9LLI2_MAIZE (CesA8)	1363	ATCCTTTCTGTTGATTATCCAGTTGATAAGGTTTCATGCTAGCTTTCTGATGATGGTCT
lcl	TC295737_UP	Q6UDF1_MAIZE (CesA10)	1060	ATCCTTTCTGTTGATTATCCAGTTGATAAGGTTTCATGCTAGCTTTCTGATGATGGTCT
lcl	TC287832_UP	Q9LLI6_MAIZE (CesA4)	1449	ATCCTTTCTGTTGATTATCCAGTTGATAAGGTTTCATGCTAGCTTTCTGATGATGGTCT
lcl	TC287831_UP	Q9LLI1_MAIZE (CesA9)	1372	ATCCTTTCTGTTGATTATCCAGTTGATAAGGTTTCATGCTAGCTTTCTGATGATGGTCT
lcl	TC299205_UP	Q9LLI5_MAIZE (CesA5)	1339	ATCCTTTCTGTTGATTATCCAGTTGATAAGGTTTCATGCTAGCTTTCTGATGATGGTCT
lcl	TC311277_UP	Q9LLI8_MAIZE (CesA2)	1295	ATCCTTTCTGTTGATTATCCAGTTGATAAGGTTTCATGCTAGCTTTCTGATGATGGTCT
lcl	TC294544_UP	Q9LLI9_MAIZE (CesA1)	1302	ATCCTTTCTGTTGATTATCCAGTTGATAAGGTTTCATGCTAGCTTTCTGATGATGGTCT
lcl	TC300086_UP	Q9LLI4_MAIZE (CesA6)	1374	GCCATGCTGACATTTGAGCAATGCTGAAACATCTGAATTTGCAAGAAATGGGTTCC
lcl	TC280752_UP	Q9LLI2_MAIZE (CesA8)	1423	GCCATGCTGACATTTGAGCAATGCTGAAACATCTGAATTTGCAAGAAATGGGTTCC
lcl	TC295737_UP	Q6UDF1_MAIZE (CesA10)	1120	TCCATGCTGCTCTCTGAGGCTCTGCTGAGACCGCCGAGTTGCGGCCCTGGGTGCC
lcl	TC287832_UP	Q9LLI6_MAIZE (CesA4)	1509	GCCATGCTGACATTTGAGCAATGCTGAAACATCTGAATTTGCAAGAAATGGGTTCC
lcl	TC287831_UP	Q9LLI1_MAIZE (CesA9)	1432	GCCATGCTGACATTTGAGCAATGCTGAAACATCTGAATTTGCAAGAAATGGGTTCC
lcl	TC299205_UP	Q9LLI5_MAIZE (CesA5)	1399	GCCATGCTGACATTTGAGCAATGCTGAAACATCTGAATTTGCAAGAAATGGGTTCC
lcl	TC311277_UP	Q9LLI8_MAIZE (CesA2)	1355	GCCATGCTGACATTTGAGCAATGCTGAAACATCTGAATTTGCAAGAAATGGGTTCC
lcl	TC294544_UP	Q9LLI9_MAIZE (CesA1)	1362	GCCATGCTGACATTTGAGCAATGCTGAAACATCTGAATTTGCAAGAAATGGGTTCC
lcl	TC300086_UP	Q9LLI4_MAIZE (CesA6)	1434	TTCTCAGAAAAGATATAGCCTTGGCTCCCTGCTCCAGAGTGGTACTTCCAAACAGAAAGATA
lcl	TC280752_UP	Q9LLI2_MAIZE (CesA8)	1483	TTCTCAGAAAAGATATAGCCTTGGCTCCCTGCTCCAGAGTGGTACTTCCAAACAGAAAGATA
lcl	TC295737_UP	Q6UDF1_MAIZE (CesA10)	1180	TTCTCAGAAAAGATATAGCCTTGGCTCCCTGCTCCAGAGTGGTACTTCCAAACAGAAAGATA
lcl	TC287832_UP	Q9LLI6_MAIZE (CesA4)	1569	TTTGTTAAGAAGTACAACATTGAACCTAGAGCTCCTGAATGGTACTTCCAAACAGAAAT
lcl	TC287831_UP	Q9LLI1_MAIZE (CesA9)	1492	TTTGTTAAGAAGTACAACATTGAACCTAGAGCTCCTGAATGGTACTTCCAAACAGAAAT
lcl	TC299205_UP	Q9LLI5_MAIZE (CesA5)	1459	TTTGTTAAGAAGTACAACATTGAACCTAGAGCTCCTGAATGGTACTTCCAAACAGAAAT
lcl	TC311277_UP	Q9LLI8_MAIZE (CesA2)	1415	TTTGTTAAGAAGTACAACATTGAACCTAGAGCTCCTGAATGGTACTTCCAAACAGAAAT
lcl	TC294544_UP	Q9LLI9_MAIZE (CesA1)	1422	TTTGTTAAGAAGTACAACATTGAACCTAGAGCTCCTGAATGGTACTTCCAAACAGAAAT

lcl	TC300086_UP	Q9LLI4_MAIZE (CesA6)	1494	GACTACCTGAAAGACAAGGTGGCCGAAACTTTGTTAGAGACGGAGAGGAATGAAGAGA
lcl	TC280752_UP	Q9LLI2_MAIZE (CesA8)	1543	GACTACCTGAAAGACAAGGTGCTGCTTCATTTGTTAGGGAGAGGAGGGCCATGAAGAGA
lcl	TC295737_UP	Q6UDF1_MAIZE (CesA10)	1240	GACTACCTGAAGACAAGGTGCAGCGGACCTTCTCFAAGGAGCGCGCGCCATGAAGAGG
lcl	TC287832_UP	Q9LLI6_MAIZE (CesA4)	1629	GATTACTTGAAGGACAAGTGCACCCCTTCATTTGTTAAAGACCGCCGGGCCATGAAGAGA
lcl	TC287831_UP	Q9LLI1_MAIZE (CesA9)	1552	GATTACTTGAAGGACAAGTGCACCCCTTCATTTGTTAAAGACCGCCGGGCCATGAAGAGA
lcl	TC299205_UP	Q9LLI5_MAIZE (CesA5)	1519	GATTACTTGAAGACAAGTGCACACTTCATTTGTTGAAAGACCGCCGGGCCATGAAGAGA
lcl	TC311277_UP	Q9LLI8_MAIZE (CesA2)	1475	GATTACCTGAAGGACAAAATTCACCTTCATTTGTTAAGGAAAGACGAGCAATGAAGAGA
lcl	TC294544_UP	Q9LLI9_MAIZE (CesA1)	1482	GATTACCTGAAGGACAAAATTCACCTTCATTTGTTAAGGAAAGACGCGCAATGAAGAGA
lcl	TC300086_UP	Q9LLI4_MAIZE (CesA6)	1554	GAGTATGAGGAATTCAAGGTTCAGATCAATGCCCTTGGTTGCTAAAGCCAAAAGTTCCCT
lcl	TC280752_UP	Q9LLI2_MAIZE (CesA8)	1603	GAAATCGAGGAATTCAAGGTAAAGATCAATGCCCTTGGTTGCAAAAACCAATACCGGATCAT
lcl	TC295737_UP	Q6UDF1_MAIZE (CesA10)	1300	GAGTACGAGGATTCAGGTCCCATCAAAGCCCTGCTGGCAGGCGCAGAGAAGCCC
lcl	TC287832_UP	Q9LLI6_MAIZE (CesA4)	1689	GAATATGAAGAATTCAAAGTAAAGGTAATGGCCTTGTGTAAAGCAGAAAAGTTCCCT
lcl	TC287831_UP	Q9LLI1_MAIZE (CesA9)	1612	GAATATGAAGAATTCAAAGTAAAGGTAATGGCCTTGTGTAAAGCAGAAAAGTTCCCT
lcl	TC299205_UP	Q9LLI5_MAIZE (CesA5)	1579	GAATATGAAGAATTCAAAGTAAAGGTAATGGCCTTGTGTAAAGCAGAAAAGTTCCCT
lcl	TC311277_UP	Q9LLI8_MAIZE (CesA2)	1535	GAGTATGAAGAATTCAAAGTAAAGATCAATGCCCTTGTGTCCAAAAGCAGAAAAGTCCCT
lcl	TC294544_UP	Q9LLI9_MAIZE (CesA1)	1542	GAGTATGAAGAATTCAAAGTAAAGATCAATGCCCTTGTGTCCAAAAGCAGAAAAGTCCCT
lcl	TC300086_UP	Q9LLI4_MAIZE (CesA6)	1614	GAGGAAGGATGGCAATGCAGGATGGAACTCCATGGCCCGGAAATAATTCCTGATCAT
lcl	TC280752_UP	Q9LLI2_MAIZE (CesA8)	1663	GAGGAAGGATGGCAATGCAGGATGGAACTCCATGGCCCGGAAATAATTCCTGATCAT
lcl	TC295737_UP	Q6UDF1_MAIZE (CesA10)	1360	GAGGAGGGGTGGGTTCATGCAAGGACGGCAGCCCTGGCCCGGGAACAACAGCCGACCCAC
lcl	TC287832_UP	Q9LLI6_MAIZE (CesA4)	1749	GAGGAAGGATGGATCATGCAAGATGGCACACCATGGCCAGGAAACAATACAGGGACCAT
lcl	TC287831_UP	Q9LLI1_MAIZE (CesA9)	1672	GAGGAAGGATGGATCATGCAAGATGGCACACCATGGCCAGGAAACAATACAGGGACCAT
lcl	TC299205_UP	Q9LLI5_MAIZE (CesA5)	1639	GAGGAGGGATGGATCATGCAAGATGGTACACCTTGGCCTGGGAACAATACAGGGACCAT
lcl	TC311277_UP	Q9LLI8_MAIZE (CesA2)	1595	GAGGAGGGGTGGACATGCGCTGATGGAACTGCTTGGCCCTGGGAAATAACCTAGGGACCAT
lcl	TC294544_UP	Q9LLI9_MAIZE (CesA1)	1602	GAGGAGGGGTGGACATGCGCTGATGGAACTGCTTGGCCCTGGGAAATAACCTAGGGACCAT
lcl	TC300086_UP	Q9LLI4_MAIZE (CesA6)	1674	CCTGGAATGATTCAGGTTTTCTTGGTCAAAAGTGGTGGCCATGATGTGGAAGGAAATGAG
lcl	TC280752_UP	Q9LLI2_MAIZE (CesA8)	1723	CCTGGAATGATTCAGGTTTTCTTGGTCAAAAGTGGTGGCCATGATGTGGAAGGAAATGAG
lcl	TC295737_UP	Q6UDF1_MAIZE (CesA10)	1420	CCGGCTATGATCCAGGTTACTCCTCGCAACCAAGGCCCTGCTGACCTGGAGGCCACAGAG
lcl	TC287832_UP	Q9LLI6_MAIZE (CesA4)	1809	CCTGGAATGATTCAGGTTTTCTTGGTCAAGTGGTGGCCCTTGTGATCTGAGGGCAATGAG
lcl	TC287831_UP	Q9LLI1_MAIZE (CesA9)	1732	CCTGGAATGATTCAGGTTTTCTTGGTCAAGTGGTGGCCCTTGTGATCTGAGGGCAATGAG
lcl	TC299205_UP	Q9LLI5_MAIZE (CesA5)	1699	CCTGGAATGATTCAGGTTTTCTTGGTCAAGTGGTGGCCCTTGTGATCTGAGGGCAATGAG
lcl	TC311277_UP	Q9LLI8_MAIZE (CesA2)	1655	CCTGCATGATTCAGGTTTTCTTGGTCAAGTGGTGGCCCTTGTGATCTGAGGGCAATGAG
lcl	TC294544_UP	Q9LLI9_MAIZE (CesA1)	1662	CCTGCATGATTCAGGTTTTCTTGGTCAAGTGGTGGCCCTTGTGATCTGAGGGCAATGAG
lcl	TC300086_UP	Q9LLI4_MAIZE (CesA6)	1734	CTGCCTCGATGGTTTTATGTTTCAACGAGAAAAAGCCAGGCTACCAACCATCACAAGAAG
lcl	TC280752_UP	Q9LLI2_MAIZE (CesA8)	1783	TTGCCCTCGCCTTTGTTTTATGTTCTCGAGAGAAAAAGCCAGGCTTATAACCATCACAAGAAG
lcl	TC295737_UP	Q6UDF1_MAIZE (CesA10)	1480	CTGCCGCGCCTCTGCTACTGCTTCCCGTGAAGAGCCGCCCGGCTACCAACCCACAAGAAG
lcl	TC287832_UP	Q9LLI6_MAIZE (CesA4)	1869	CTACCCCGTTTTGGTCTATGTTTCTCGTGAAGAGCCCTCTGGATTCAGCATCACAAGAAA
lcl	TC287831_UP	Q9LLI1_MAIZE (CesA9)	1792	CTACCCCGTTTTGGTCTATGTTTCTCGTGAAGAGCCCTCTGGATTCAGCATCACAAGAAA
lcl	TC299205_UP	Q9LLI5_MAIZE (CesA5)	1759	CTTCCCTCGTTTTGGTTTTATGTTTCTCGTGAAGAGCCGCTGCTTCCAGCATCACAAGAAG
lcl	TC311277_UP	Q9LLI8_MAIZE (CesA2)	1715	TTACCACGCTTTGCTCTATGTTCTCTCGTGAAGAGACCAGGCTTTTCCAGCATCACAAGAAG
lcl	TC294544_UP	Q9LLI9_MAIZE (CesA1)	1722	TTACCACGCTTTGCTCTATGTTCTCTCGTGAAGAGACCAGGCTTTTCCAGCATCACAAGAAG
lcl	TC300086_UP	Q9LLI4_MAIZE (CesA6)	1794	GCTGGTGCATGAATGCATGGTCCAGTCTCTGCTGTACTACTAATGCTCCTTATTGTG
lcl	TC280752_UP	Q9LLI2_MAIZE (CesA8)	1843	GCTGGTGCATGAATGCATGGTCCAGTCTCTGCTGTACTACTAATGCTCCTTATTGTG
lcl	TC295737_UP	Q6UDF1_MAIZE (CesA10)	1540	GCCGGCGCCATGAACCGCCTGGTGGCGTCTCCGCCGTCTCACCAACCGCCCTTACTC
lcl	TC287832_UP	Q9LLI6_MAIZE (CesA4)	1929	GCTGGTGCATGAATGCATGGTCCAGTCTCTGCTGTACTACTAATGCTCCTTATTGTG
lcl	TC287831_UP	Q9LLI1_MAIZE (CesA9)	1852	GCTGGTGCATGAATGCATGGTCCAGTCTCTGCTGTACTACTAATGCTCCTTATTGTG
lcl	TC299205_UP	Q9LLI5_MAIZE (CesA5)	1819	GCTGGTGCATGAATGCATGGTCCAGTCTCTGCTGTACTACTAATGCTCCTTATTGTG
lcl	TC311277_UP	Q9LLI8_MAIZE (CesA2)	1775	GCTGGTGCATGAATGCATGGTCCAGTCTCTGCTGTACTACTAATGCTCCTTATTGTG
lcl	TC294544_UP	Q9LLI9_MAIZE (CesA1)	1782	GCTGGTGCATGAATGCATGGTCCAGTCTCTGCTGTACTACTAATGCTCCTTATTGTG
lcl	TC300086_UP	Q9LLI4_MAIZE (CesA6)	1854	CTGAACCTGGATTGTGATCACTATATCAATAAATAGTAAAGGCTATAAAGGAAGCATATGTG
lcl	TC280752_UP	Q9LLI2_MAIZE (CesA8)	1903	TTGAACCTGGACTGTGATCACTACATCAACAAATAGCAAGGCCATAAAAGAGGCTATGTGT
lcl	TC295737_UP	Q6UDF1_MAIZE (CesA10)	1600	CTCAACCTCGACTCGACCACTACCTCAACAACAGCAAGGCCGTGCGCGAGGCATGTGC
lcl	TC287832_UP	Q9LLI6_MAIZE (CesA4)	1989	TTGAATCTTGATTGTGATCACTACATTAACAACAGTAAGGCTCTCAGGGAAGCTATGTGC
lcl	TC287831_UP	Q9LLI1_MAIZE (CesA9)	1912	TTGAATCTTGATTGTGATCACTACATCAACAACAGTAAGGCTCTCAGGGAAGCTATGTGC
lcl	TC299205_UP	Q9LLI5_MAIZE (CesA5)	1879	TTGAATCTTGACTGTGACCACTACATCAATAAATAGCAAGGCTCTTCGAGAAGCTATGTGC
lcl	TC311277_UP	Q9LLI8_MAIZE (CesA2)	1835	CTCAATCTGGATTGTGACCACTTACTTCAATAAGCAGCAAGGCTCTTAGAGAAGCATGTGC
lcl	TC294544_UP	Q9LLI9_MAIZE (CesA1)	1842	CTCAATCTGGATTGTGACCACTTACTTCAATAAGCAGCAAGGCTCTTAGAGAAGCATGTGC

lcl|TC300086_UP|Q9LLI4_MAIZE (CesA6)_ 2307 GATG-----AAGCCGCTCCAG-----GAGCTG---AAAATGANAAGG--
lcl|TC280752_UP|Q9LLI2_MAIZE (CesA8)_ 2350 GATG-----AAGGCGCTCCAG-----GTGCTG---ATATCGAGAAGG--
lcl|TC295737_UP|Q6UDF1_MAIZE (CesA10)_ 2080 GCGCGCGGCTGTACAAAGAAACACCAGCGCGCTTCGAGCTGGAGGAGATCGAGGAGGGG
lcl|TC287832_UP|Q9LLI6_MAIZE (CesA4)_ 2400 GAGG-----AGGGAGTTGAAG-----GCCGTGGATTTC---ACGACGAGAAA---
lcl|TC287831_UP|Q9LLI1_MAIZE (CesA9)_ 2326 GAGG-----AGGGAGTTGAAG-----GCCGTGGATTTC---ATGATGAGAAA---
lcl|TC299205_UP|Q9LLI5_MAIZE (CesA5)_ 2290 GAGG-----AAGGGATTGAAG-----GTTCTCAGTTTC---ATGATGAGAAA---
lcl|TC311277_UP|Q9LLI8_MAIZE (CesA2)_ 2252 GAGG-----AGGGATTGAAG-----GT-----TATG---AGGATGAAAGG---
lcl|TC294544_UP|Q9LLI9_MAIZE (CesA1)_ 2259 GAAG-----AGGGATTGAAG-----GT-----TACG---AGGATGAAAGG---

lcl|TC300086_UP|Q9LLI4_MAIZE (CesA6)_ 2341 CTAGTATTCTAAATCAA-----CAGAAG---TTGGAANAAG
lcl|TC280752_UP|Q9LLI2_MAIZE (CesA8)_ 2384 CCGGAATCTAAATCAA-----CAGAAA---CTAGAGAAAG
lcl|TC295737_UP|Q6UDF1_MAIZE (CesA10)_ 2140 CTGGAGGGGTACACAGAGCTGGAGCGCTCCTCGCTCATGTCGCAGAAAGACTTCGAGAAAG
lcl|TC287832_UP|Q9LLI6_MAIZE (CesA4)_ 2439 -TCAGTTCTTATGTCTC-----AAATGAGCTTGGAGAAAG
lcl|TC287831_UP|Q9LLI1_MAIZE (CesA9)_ 2365 -TCAGTTCTTATGTCTC-----AAATGAGCTTGGAGAAAG
lcl|TC299205_UP|Q9LLI5_MAIZE (CesA5)_ 2329 -TCAGTTCTTATGTCTC-----AAATGAGCTTGGAGAAAG
lcl|TC311277_UP|Q9LLI8_MAIZE (CesA2)_ 2285 -TCAGTTCTTATGTCTC-----AGAGGAATTTGGAGAAA
lcl|TC294544_UP|Q9LLI9_MAIZE (CesA1)_ 2292 -TCAGCGCTTATGTCTC-----AGAGGAATTTGGAGAAA

lcl|TC300086_UP|Q9LLI4_MAIZE (CesA6)_ 2373 AAATTTGGCCAGTCTTCAGTTTTTGTGTCATCCACACTTCTTGGAGAAAGG-TGGAACCCT
lcl|TC280752_UP|Q9LLI2_MAIZE (CesA8)_ 2416 AAATTTGGCCAGTCTTCTGTTTTTGTGTCATCCACACTTCTTGGAGAAAGG-AGGGACCCT
lcl|TC295737_UP|Q6UDF1_MAIZE (CesA10)_ 2200 CGGTTCCGCCAGTCCCGCTTCTCAGCTCCACCTCTGAGGACCG-CGGCCTGCC
lcl|TC287832_UP|Q9LLI6_MAIZE (CesA4)_ 2472 AGATTTGGCCAGTCCCGAGCTTTGTTGCTCCACTCTGATGGAGTATGG-TGGTGTGCC
lcl|TC287831_UP|Q9LLI1_MAIZE (CesA9)_ 2398 AGATTTGGCCAACTCTCCAGCTTTTGTGCTCCACTCTGATGGAAATATGG-TGGTGTGCC
lcl|TC299205_UP|Q9LLI5_MAIZE (CesA5)_ 2362 AGATTTGGCCAGTCCAGTGTTTTTTGTAGCTCTACTCTCATGGAAATATGG-CGGTGTGCC
lcl|TC311277_UP|Q9LLI8_MAIZE (CesA2)_ 2318 CGCTTTGGTCCAGTCTCCAAATCTCATTGTCATCCACCTTTATGACTCAAGG-TGGCATACC
lcl|TC294544_UP|Q9LLI9_MAIZE (CesA1)_ 2325 CGCTTTGGTCCAGTCTCTAATTTCTATTGTCATCCACCTTTATGACTCAAGCCTGGCATACC

lcl|TC300086_UP|Q9LLI4_MAIZE (CesA6)_ 2432 CAAGAGTGCAG-----GTCCAGCTTCTCTCTGAAGGAAGCTATACATGTCCATCAGTTG
lcl|TC280752_UP|Q9LLI2_MAIZE (CesA8)_ 2475 CAAGAGCGCAA-----GTCCAGCTTCTCTCTGAAGGAAGCTATACATGTTCATCAGCTG
lcl|TC295737_UP|Q6UDF1_MAIZE (CesA10)_ 2259 CCAGGGCCGCCCGCCCGCCAGTCCAGTGGGGCAAGGAGATTGGGTGGATCTATGGCTCGGTGAC
lcl|TC287832_UP|Q9LLI6_MAIZE (CesA4)_ 2531 TCAGTCCGCAA-----CTCCGGACTCTCTTCTGAAAGAAAGCTATCCATGTTCATAAGCTG
lcl|TC287831_UP|Q9LLI1_MAIZE (CesA9)_ 2457 TCAGTCTGCGA-----CTCCGGAATCTCTTCTGAAAGAAAGCTATCCATGTCCATAAGCTG
lcl|TC299205_UP|Q9LLI5_MAIZE (CesA5)_ 2421 ACAATCTGCAA-----CTCCAGACTCTCTCTGAAAGAAAGCTATACATGTCCATCAGCTG
lcl|TC311277_UP|Q9LLI8_MAIZE (CesA2)_ 2377 ACCTTCAACAA-----ACCCAGCTTCTCTACTGAGGAAGCTATCCATGTTCATCAGCTG
lcl|TC294544_UP|Q9LLI9_MAIZE (CesA1)_ 2385 ACCTTCAACAA-----ACCCAGCTTCTCTACTAAGGAAGCTATCCATGTCCATCAGTTG

lcl|TC300086_UP|Q9LLI4_MAIZE (CesA6)_ 2486 TGGATATGAAAGACAAACAGCTGGGGAAAAGATATTGGTGGATTATGGATCAGTAC
lcl|TC280752_UP|Q9LLI2_MAIZE (CesA8)_ 2529 GGGTACGAAAGCAAGACCGACTGGGGAAAAGAGATTGGCTGGATTATCGGATCGATAC
lcl|TC295737_UP|Q6UDF1_MAIZE (CesA10)_ 2319 GGGATACGAGCAAGACCGAGTGGGGCAAGGAGATTGGGTGGATCTATGGCTCGGTGAC
lcl|TC287832_UP|Q9LLI6_MAIZE (CesA4)_ 2585 TGGCTATGAGGACAAGACTGAATGGGGAACTGAGATCGGGTGGATCTACGGTCTGTGAC
lcl|TC287831_UP|Q9LLI1_MAIZE (CesA9)_ 2511 TGGCTACGAGGACAAGACTGAATGGGGAACTGAGATTGGGTGGATCTATGGTCTGTGAC
lcl|TC299205_UP|Q9LLI5_MAIZE (CesA5)_ 2475 TGGCTATGAGGACAAGACTGAATGGGGAACTGAGATTGGGTGGATCTATGGTCTGTGAC
lcl|TC311277_UP|Q9LLI8_MAIZE (CesA2)_ 2431 TGGGTACGAGGACAAGACTGAATGGGGAAAAGAGATTGGCTGGATCTATGGTTCAGTTAC
lcl|TC294544_UP|Q9LLI9_MAIZE (CesA1)_ 2439 TGGATATGAGGACAAGACTGAATGGGGAAAAGAGATTGGCTGGATCTATGGTTCAGTTAC

lcl|TC300086_UP|Q9LLI4_MAIZE (CesA6)_ 2546 AGAAGATATTCTTACTGGGTTAAGATGCACTGCATCGGTGGCGGTCAATTTACTGCAT
lcl|TC280752_UP|Q9LLI2_MAIZE (CesA8)_ 2589 AGAGGATATTCTGACTGGATTAAGATGCACTGCCATGGCTGGCGGTCTATTTACTGCAT
lcl|TC295737_UP|Q6UDF1_MAIZE (CesA10)_ 2379 AGAGGATATTCTGACTGGGTTAAGATGCACTGCAGGGGGTGGAACTGCTGACTGCAT
lcl|TC287832_UP|Q9LLI6_MAIZE (CesA4)_ 2645 AGAAGCATTTCTTACCAGGATTCAGATGCACGCCGAGGCTGGCGGTCAATCTACTGCAT
lcl|TC287831_UP|Q9LLI1_MAIZE (CesA9)_ 2571 GGAAGATATTCTTACTGGGTTAAGATGCACGCCAGGCTGGCGGTCAATCTACTGCAT
lcl|TC299205_UP|Q9LLI5_MAIZE (CesA5)_ 2535 AGAAGCATTTCTTACCAGGATTCAGATGCATGCTCGAGGCTGGCGATCAATCTACTGCAT
lcl|TC311277_UP|Q9LLI8_MAIZE (CesA2)_ 2491 AGAGGATATTCTGACTGGGTTAAGATGCATGCAGAGGCTGGCAATCAATCTACTGCAT
lcl|TC294544_UP|Q9LLI9_MAIZE (CesA1)_ 2499 GGAGGATATTCTGACTGGGTTAAGATGCATGCAGGGCTGGCAATCAATCTACTGCAT

lcl|TC300086_UP|Q9LLI4_MAIZE (CesA6)_ 2606 ACCTAAACCGCCCGCCTTCAAAGGTTCCGCACCTCTCAATCTTCCGATCGTCTTACCA
lcl|TC280752_UP|Q9LLI2_MAIZE (CesA8)_ 2649 CCGAAGCGGCCGCAATCAAAGGTTCTGCGCCTCTCAACCTTTCGGACCGTCTTACCA
lcl|TC295737_UP|Q6UDF1_MAIZE (CesA10)_ 2439 GCCGACACCGCCCGCCTTCAAAGGTTCTGCGCCTCAATCTTCTGATCGTCTTACCA
lcl|TC287832_UP|Q9LLI6_MAIZE (CesA4)_ 2705 GCCCAAGCGGCCAGCTTCAAAGGTTCTGCGCCTCAATCTTTCGGACCGTCTTACCA
lcl|TC287831_UP|Q9LLI1_MAIZE (CesA9)_ 2631 GCCTAAGCGGCCGCTTCAAAGGTTCTGCGCTCCATCAATCTCTCAGACCGTCTTACCA
lcl|TC299205_UP|Q9LLI5_MAIZE (CesA5)_ 2595 GCCCAAGCGCACCGCTTCAAAGGTTCTGCTCCATCAACCTTTCGGATGCTTCAATCA
lcl|TC311277_UP|Q9LLI8_MAIZE (CesA2)_ 2551 CCGTACCGACCTTGTTCAAAGGTTCTGCACCAATCAATCTTCTGATCGTCTTAAATCA
lcl|TC294544_UP|Q9LLI9_MAIZE (CesA1)_ 2559 GCCCAACCGACCTTGTTCAAAGGTTCTGCACCAATCAATCTTTCGATCGTCTTAAATCA

lcl|TC300086_UP|Q9LLI4_MAIZE (CesA6)_ 2666 GGTTCCTTCGGTGGGCTCTGGTTCATTTGAAATTTCTCTCAGCAAGCACTGCCCTCTCTG
lcl|TC280752_UP|Q9LLI2_MAIZE (CesA8)_ 2709 GGTTCCTTCGGTGGGCTCTGGGTCGTGAAATTTCTCTCAGCAAGCACTGCCACTTTG
lcl|TC295737_UP|Q6UDF1_MAIZE (CesA10)_ 2499 GGTGCTCCGCTGGGCGCTGGGTCCTGGAGATCTTATGAGCCGCACTGCCCGCTCTG
lcl|TC287832_UP|Q9LLI6_MAIZE (CesA4)_ 2765 GGTGCTCCGGTGGGCTCTGGGTCCTGGAGATCTCTTTCAGCCGGCACTGCCCGCTCTG
lcl|TC287831_UP|Q9LLI1_MAIZE (CesA9)_ 2691 GGTGCTCCGGTGGGCTCTGGTTCAGTGGAAATCTTTTCAGCCGGCACTGCCCGCTATG
lcl|TC299205_UP|Q9LLI5_MAIZE (CesA5)_ 2655 AGTGCTTCGGTGGGCTCTGGTTCATTTGAAATTTCTTTCAGCAGGCATTTGCCATATG
lcl|TC311277_UP|Q9LLI8_MAIZE (CesA2)_ 2611 GGTGCTCCGCTGGGCTCTGGGTCAGTGGAAATTTCTGTTAGCAGACATTTGTCCTATATG
lcl|TC294544_UP|Q9LLI9_MAIZE (CesA1)_ 2619 GGTGCTCCGCTGGGCTCTGGGTCAGTGGAAATTTCTGTTAGTAGACATTTGTCCTATCTG

lcl|TC300086_UP|Q9LLI4_MAIZE (CesA6)_ 2726 GTATGGGTATGGTGGTGGACTAAAGTTCCTGGAAAGGTTTTCTACATTAACCCATCGT
lcl|TC280752_UP|Q9LLI2_MAIZE (CesA8)_ 2769 GTACGGGTACGGGGCGGGCTAAAATTCCTGGAAAGGTTTTCTTATATCAACCCATCGT
lcl|TC295737_UP|Q6UDF1_MAIZE (CesA10)_ 2559 GTACCGCTACGGGGCGGGCTCAAGTGGCTGGAGAGCTTCGCTTACACCAACACCATCGT
lcl|TC287832_UP|Q9LLI6_MAIZE (CesA4)_ 2825 GTACGGCTACGGAGGGCGGGCTCAAGTTCCTGGAGAGATTCGGGTACATCAACACCACAT
lcl|TC287831_UP|Q9LLI1_MAIZE (CesA9)_ 2751 GTACGGCTACGGAGGGCGCTGAAGTCTTGGAGAGATTCGGGTACATCAACACCACAT
lcl|TC299205_UP|Q9LLI5_MAIZE (CesA5)_ 2715 GTATGGCTATGGAGGTCGGCTTAAATTCCTGGAGAGATTTGCTTATATCAACACACAAAT
lcl|TC311277_UP|Q9LLI8_MAIZE (CesA2)_ 2671 GTATGGCTACAAATGGGCGATTTGAAGCTTTTGGAGAGGCTGGCTTACATTAACACCATTGT
lcl|TC294544_UP|Q9LLI9_MAIZE (CesA1)_ 2679 GTATGGTTACAATGGACGATTTGAAGCTTTTGGAGAGGCTGGCTTACATCAACACTATTGT

lcl|TC300086_UP|Q9LLI4_MAIZE (CesA6)_ 2786 ATACCTTTGGACATCTATCCCGCTCTGGCTATTTGCAATTTGCCTGCCATCTGCTTGT
lcl|TC280752_UP|Q9LLI2_MAIZE (CesA8)_ 2829 TTATCCCTGGACCTCCATTCCTCTCTCTGGCTTACTGTACCTTGCCTGCCATCTGCCTGCT
lcl|TC295737_UP|Q6UDF1_MAIZE (CesA10)_ 2619 GTACCCCTTCACCTCCATCCCGCTCTCTGCTACTGCAACCTCCCGCTCTGCCTGCT
lcl|TC287832_UP|Q9LLI6_MAIZE (CesA4)_ 2885 GTACCCCTTCACCTCCATCCCGCTCTCTCTACTGTATCTGCTCCCGCATCTGCTGCT
lcl|TC287831_UP|Q9LLI1_MAIZE (CesA9)_ 2811 GTACCCCTTCACCTCCCGCTCTCTTACTGTATCTGCTGCCATCTGCCTGCT
lcl|TC299205_UP|Q9LLI5_MAIZE (CesA5)_ 2775 TTATCCACTCACATCAATCCCGCTCTCTCTGCTACTGATATGCAATGCAATTTGCTTCT
lcl|TC311277_UP|Q9LLI8_MAIZE (CesA2)_ 2731 TTATCCAAATCACATCTCTTCCGCTTATCGCTATTTGTGTCTTCTGCTATCTGCTCTCT
lcl|TC294544_UP|Q9LLI9_MAIZE (CesA1)_ 2739 ATATCCAAATCACATCCATTCGCTTATTTGCTATTTGTGTCTTCCCGCTATCTGCCTCT

lcl|TC300086_UP|Q9LLI4_MAIZE (CesA6)_ 2846 GACAGGGAAATTTATCAGCCAGAGCTTAACAATGTTGCCAGCTTTGGTTTATGTCACT
lcl|TC280752_UP|Q9LLI2_MAIZE (CesA8)_ 2889 CACCGGGAAGTTTATCAGCCAGAGCTTAACAATGTTGCCAGTATCTGGTTTATGTCACT
lcl|TC295737_UP|Q6UDF1_MAIZE (CesA10)_ 2679 CACCGGGAAGTTTATCATTCCAGCTTGAACAACCTGCCAGCATCTGGTTTATGTCACT
lcl|TC287832_UP|Q9LLI6_MAIZE (CesA4)_ 2945 CACCGGGAAGTTTATCATTCAGAGATCAGCAACTTCCAGCATCTGGTTTATGTCACT
lcl|TC287831_UP|Q9LLI1_MAIZE (CesA9)_ 2871 CACCGGGAAGTTTATCATCCAGAGATCAGCAACTTCCAGTATCTGGTTTATGTCACT
lcl|TC299205_UP|Q9LLI5_MAIZE (CesA5)_ 2835 CACTGGGAAGTTTATCATCCCAAGATTAGTAACTTACAGAGTGTTTGGTTTATATCTCT
lcl|TC311277_UP|Q9LLI8_MAIZE (CesA2)_ 2791 TACCAATAAATTTATCATCTCTGAGATTAGTAAATTTATGCTGGATTTCTTCTCTCT
lcl|TC294544_UP|Q9LLI9_MAIZE (CesA1)_ 2799 TACCAATAAATTTATCATCTCTGAGATTAGCAATTTATGCTGGATTTCTTCTCTCTCT

lcl|TC300086_UP|Q9LLI4_MAIZE (CesA6)_ 2906 TTTTCATCTGCATTTTTCGTACGAGATCTCTGGAAATGAGATGGAGTTGGTGTAGGCATCGA
lcl|TC280752_UP|Q9LLI2_MAIZE (CesA8)_ 2949 TTTTCATCTGCATCTCCCTGACCGGATCTCTGGAAATGAGGTGGAGTTGGCTGCGCATCGA
lcl|TC295737_UP|Q6UDF1_MAIZE (CesA10)_ 2739 CTTCTCTTCCATCATCCGACAGAGCTCTCTGGAGCTCGGGTGGAGGGGGTGAATCGA
lcl|TC287832_UP|Q9LLI6_MAIZE (CesA4)_ 3005 CTTTCATCTGCATCTTCCGACAGGGCATCTCTGGAGATGAGGTGGAGCGGGTGGGCATCGA
lcl|TC287831_UP|Q9LLI1_MAIZE (CesA9)_ 2931 CTTTCATCTGCATCTTCCGACAGGGATCTCTGGAGATGAGGTGGAGCGGGTGGGCATCGA
lcl|TC299205_UP|Q9LLI5_MAIZE (CesA5)_ 2895 CTTTCATCTGCATCTTCCGACTGGTATCTCTGGAGATGAGGTGGAGTTGGTGTGGCATGGA
lcl|TC311277_UP|Q9LLI8_MAIZE (CesA2)_ 2851 TTTTCCTCCATTTTCCGAACTGGTATATTGGAGCTTACATGGAGTTGGTGTGGCATGGA
lcl|TC294544_UP|Q9LLI9_MAIZE (CesA1)_ 2859 TTTTCCTCCATTTTCCCACTGGTATATTGGAGCTTACATGGAGGGGTGTGGCATGGA

lcl|TC300086_UP|Q9LLI4_MAIZE (CesA6)_ 2966 TGACTGGTGGAGAAACGAGCAGTTTTCGGTTCATTTGGAGCCGTCTCTTTCATCTCTTTGC
lcl|TC280752_UP|Q9LLI2_MAIZE (CesA8)_ 3009 CGACTGGTGGAGGAACGAGCAGTTTCTGGTTCATCGGAGCCCTTTCCGGCATCTCTTCCG
lcl|TC295737_UP|Q6UDF1_MAIZE (CesA10)_ 2799 GGACTGGTGGCGAAACGAGCAGTTTCTGGTTCATCGGCGCTTCTCCGCGCATCTCTTCCG
lcl|TC287832_UP|Q9LLI6_MAIZE (CesA4)_ 3065 CGAGTGGTGGAGGAACGAGCAGTTTCTGGTTCATCGGAGCCATCTCCGCACTCTTCCG
lcl|TC287831_UP|Q9LLI1_MAIZE (CesA9)_ 2991 CGAGTGGTGGAGGAACGAGCAGTTTCTGGTTCATCGGAGCCATCTCCGCACTCTTCCG
lcl|TC299205_UP|Q9LLI5_MAIZE (CesA5)_ 2955 TGAATGGTGGAGGAACGAGCAGTTTCTGGTTCATTTGGTGTATTTCTGCGCATTTATTTCG
lcl|TC311277_UP|Q9LLI8_MAIZE (CesA2)_ 2911 AGATTTGGTGGAGAAATGAGCAGTTTTCGGTTCATTTGGTGGCACTCTGCGCATCTCTTCCG
lcl|TC294544_UP|Q9LLI9_MAIZE (CesA1)_ 2919 AGATTTGGTGGAGAAATGAGCAGTTTTCGGTTCATTTGGTGGCACTCTGCGCATCTCTTCCG

lcl|TC300086_UP|Q9LLI4_MAIZE (CesA6)_ 3026 TGTGTTCAGGGACTCTCAAGGTCATAGCTGGTGTAGACACAGCTTCACTGTACATC
lcl|TC280752_UP|Q9LLI2_MAIZE (CesA8)_ 3069 GGTGTTCAGGGCTGCTCAAGGTCCTGCGCGCATCGACACAGCTTCAACCGTCACTC
lcl|TC295737_UP|Q6UDF1_MAIZE (CesA10)_ 2859 CGTGTTCAGGGCTCTCTCAAGGTCCTGCGCGCTGACACAGCTTCAACCGTCACTC
lcl|TC287832_UP|Q9LLI6_MAIZE (CesA4)_ 3125 CGTGTTCAGGGCTGCTCAAGGTCCTGCGCGCATCGACACCACTTCAACCGTCACTC
lcl|TC287831_UP|Q9LLI1_MAIZE (CesA9)_ 3051 CGTGTTCAGGGCTCTCTCAAGGTCCTGCGCGCATCGACACCACTTCAACCGTCACTC
lcl|TC299205_UP|Q9LLI5_MAIZE (CesA5)_ 3015 CGTGTTCAGGGCTCTCTCAAGGTCCTGCTGCTATCGACACAGCTTCACTGTACCTC
lcl|TC311277_UP|Q9LLI8_MAIZE (CesA2)_ 2971 GGTGTTCAGGGCTGCTCAAGGTCCTGCGCGCATCGATACCACTTCAACAGTACCTC
lcl|TC294544_UP|Q9LLI9_MAIZE (CesA1)_ 2979 AGTGTTCAGGGCTGCTCAAGGTCCTGCGCGCATCGATACCACTTCAACAGTACCTC

lcl|TC300086_UP|Q9LLI4_MAIZE (CesA6)___ 3086 CAAGGCGCGGAGACGACGAGGA----GTTCTCAGAG--CTCTACACATTCAAATGGACGAC
lcl|TC280752_UP|Q9LLI2_MAIZE (CesA8)___ 3129 GAAGGCCGGGAGCAGCAGGGA----GTTCTCGGAG--CTGTACAGCTTCAAGTGGACCAC
lcl|TC295737_UP|Q6UDF1_MAIZE (CesA10)___ 2919 CAAGGCGGGCGGCGACGAGGCGGAGCCCTTCGGGAGACTCTACCTTTTCAAGTGGACCAC
lcl|TC287832_UP|Q9LLI6_MAIZE (CesA4)___ 3185 CAAGGCCTCGGACGAGGACGGC---GACTTCGGCGGAGCTGTACATGTTCAAGTGGACGAC
lcl|TC287831_UP|Q9LLI1_MAIZE (CesA9)___ 3111 CAAGGCCTCGGATGAAGACGGC---GACTTCGGCGGAGCTGTACATGTTCAAGTGGACGAC
lcl|TC299205_UP|Q9LLI5_MAIZE (CesA5)___ 3075 TAAGGCCACTGACGAGAAGGT---GATTTTGGCGAGCTCTACATGTTCAAGTGGACGAC
lcl|TC311277_UP|Q9LLI8_MAIZE (CesA2)___ 3031 AAAGGCATCTGATGAGGATGGC---GACTTTGCTGAGCTATATGTTTCAAGTGGACCAG
lcl|TC294544_UP|Q9LLI9_MAIZE (CesA1)___ 3039 AAAGGCATCTGATGAGGATGGC---GACTTTGCTGAGCTATATGTTTCAAGTGGACCAG

lcl|TC300086_UP|Q9LLI4_MAIZE (CesA6)___ 3140 CCTTCTGATAACCTCCGACAACCTGCTCCTACTCAACTTCATTTGGAAGTGGTATGCTGGCAT
lcl|TC280752_UP|Q9LLI2_MAIZE (CesA8)___ 3183 CCTGTGATACCCCGCACCAGCTCCTCCTGCTGAACCTTCATTCGGGCTGGTGGCCGGGAT
lcl|TC295737_UP|Q6UDF1_MAIZE (CesA10)___ 2979 CCTGTGATGCCCGCCACCAGGCTCATCATCAACATGGTGGGATCCTGGCCGGCCT
lcl|TC287832_UP|Q9LLI6_MAIZE (CesA4)___ 3242 GCTTCTGATCCCGCCACCACCCTCCTGATCATCAACTGGTGGGGTCTGCGCCGGAT
lcl|TC287831_UP|Q9LLI1_MAIZE (CesA9)___ 3168 ACTCTGATTCGCCCGCCACCACCCTCCTGATCATCAACTGGTGGGGTCTGCGCCGGAT
lcl|TC299205_UP|Q9LLI5_MAIZE (CesA5)___ 3132 GCTTCTGATCCCGCCACCACCCTATTTGATCATCAACTGGTGGGGTCTGCGCCGGAT
lcl|TC311277_UP|Q9LLI8_MAIZE (CesA2)___ 3088 TTTGCTCATCCCGCACCAGCTGTTCTTCTCATTAACCTGCTCGGAATGGTGGGAGGAAAT
lcl|TC294544_UP|Q9LLI9_MAIZE (CesA1)___ 3096 TTTGCTCATTCCTCCGACCAGCTGTTCTTCTCATTAACCTGCTCGGAATGGTGGGAGGAAAT

lcl|TC300086_UP|Q9LLI4_MAIZE (CesA6)___ 3200 TTCCAATGCGCATCAACAACGGATATGAATCATGGGGCCCTGTTGGGAAGCTCTTCTT
lcl|TC280752_UP|Q9LLI2_MAIZE (CesA8)___ 3243 CTCGAACCGGATCAACAACGGCTACGGCTCCTGGGGCCCGCTTTCGGGAAGCTCTTCTT
lcl|TC295737_UP|Q6UDF1_MAIZE (CesA10)___ 3039 GTCCGACGCCGTCAACAACGGCTACGGCTCCTGGGGCCCGCTTTCGGGAAGCTCTTCTT
lcl|TC287832_UP|Q9LLI6_MAIZE (CesA4)___ 3302 CTCCTACGCCATCAACAGCGGATACCAGTCTGGGGCCCGCTTTCGGGAAGCTCTTCTT
lcl|TC287831_UP|Q9LLI1_MAIZE (CesA9)___ 3228 CTCCTACGCCATCAACAGCGGATACCAGTCTGGGGTCCGCTTTCGGGAAGCTCTTCTT
lcl|TC299205_UP|Q9LLI5_MAIZE (CesA5)___ 3192 TTCCTACCGAATCAAAAGCGCTACCAGTCAATGGGGACCTTTTCGGGAAGCTCTTCTT
lcl|TC311277_UP|Q9LLI8_MAIZE (CesA2)___ 3148 TTCGTATGCCATTAACAGCGGATACCAATCCTGGGGTCCGCTCTTTCGGGAAGCTCTTCTT
lcl|TC294544_UP|Q9LLI9_MAIZE (CesA1)___ 3156 TTCGTATGCCATTAACAGTGGCTACCAATCCTGGGGTCCGCTCTTTCGGGAAGCTCTTCTT

lcl|TC300086_UP|Q9LLI4_MAIZE (CesA6)___ 3260 TGCATTTTGGGTGATCTGCCATCTTACCCGTTCTCAAGGGTCTGTTGGGAGGCAGAA
lcl|TC280752_UP|Q9LLI2_MAIZE (CesA8)___ 3303 CGCCTTCTGGGTGATCTGCCACCTGTACCCTTCTCAAGGGTCTGTTGGGAGGCAGAA
lcl|TC295737_UP|Q6UDF1_MAIZE (CesA10)___ 3099 CTCTTCTGGGTGATCTGCCACCTGTACCCTTCTCAAGGGTCTGTTGGGAGGCAGAA
lcl|TC287832_UP|Q9LLI6_MAIZE (CesA4)___ 3362 CGCCTTCTGGGTGATCTGCCACCTGTACCCTTCTCAAGGGTCTGTTGGGAGGCAGAA
lcl|TC287831_UP|Q9LLI1_MAIZE (CesA9)___ 3288 CGCCTTCTGGGTGATCTGCCACCTGTACCCTTCTCAAGGGTCTGTTGGGAGGCAGAA
lcl|TC299205_UP|Q9LLI5_MAIZE (CesA5)___ 3252 TCCGTTCTGGGTGATCTGCCACCTGTACCCTTCTCAAGGGTCTGTTGGGAGGCAGAA
lcl|TC311277_UP|Q9LLI8_MAIZE (CesA2)___ 3208 CTGATCTGGGTGATCTGCCATCTTACCCTTCTCAAGGGTCTGTTGGGAGGCAGAA
lcl|TC294544_UP|Q9LLI9_MAIZE (CesA1)___ 3216 CTGATCTGGGTGATCTGCCATCTTACCCTTCTCAAGGGTCTGTTGGGAGGCAGAA

lcl|TC300086_UP|Q9LLI4_MAIZE (CesA6)___ 3320 CAGGACGCCAACGATTTGTCATTGTCTGGTCCATCCTCCTGGTTCGATCTTCTGCTGCT
lcl|TC280752_UP|Q9LLI2_MAIZE (CesA8)___ 3363 CAGGACGCCGACGATCTGTCATCTGCTGGTCCATCCTGCTGGCTCGATCTTCTGCTGCT
lcl|TC295737_UP|Q6UDF1_MAIZE (CesA10)___ 3159 CCGGACGCCAACCATCTGTCATCTGCTGGTCCATCCTGCTGGCTCGATCTTCTGCTGCT
lcl|TC287832_UP|Q9LLI6_MAIZE (CesA4)___ 3422 CCGCACCCGACCATCTGTCCTGCTGGTCCATCCTGCTGGGCTCATCTTCTCTGCT
lcl|TC287831_UP|Q9LLI1_MAIZE (CesA9)___ 3348 CCGCACCCGACCATCTGTCATCTGCTGGTCCATCCTGCTGGGCTCATCTTCTCTGCT
lcl|TC299205_UP|Q9LLI5_MAIZE (CesA5)___ 3312 CCGCACCCGACCATCTGTCATCTGCTGGTCCATCCTGCTGGGCTCATCTTCTCTGCT
lcl|TC311277_UP|Q9LLI8_MAIZE (CesA2)___ 3268 CCGCACCCGACCAATCTGTCATCTGCTGGTCCATCCTGCTGGGCTCATCTTCTCTGCT
lcl|TC294544_UP|Q9LLI9_MAIZE (CesA1)___ 3276 CCGCACCCGACCAATCTGTCATCTGCTGGTCCATCCTGCTGGGCTCATCTTCTCTGCT

lcl|TC300086_UP|Q9LLI4_MAIZE (CesA6)___ 3380 TTGGGTCCGGATCGACCTTTCTTTCGANGSATTAAGG----TCCCTGTTGGAGGAST
lcl|TC280752_UP|Q9LLI2_MAIZE (CesA8)___ 3423 TTGGGTCCGCTCGACCCGTTCTCCTGCCAAGGCAAGG---CCGCTCCTGGAGGAGT
lcl|TC295737_UP|Q6UDF1_MAIZE (CesA10)___ 3219 TTGGGTCCGGATCGACCTTTATCCGANGGCTAAGG---CCGCTCCTCAAGCCAT
lcl|TC287832_UP|Q9LLI6_MAIZE (CesA4)___ 3482 TTGGGTCCGATCGACCCCTTACCACCCCGCTCACTGG---CCGGATACCCGAGCGT
lcl|TC287831_UP|Q9LLI1_MAIZE (CesA9)___ 3408 TTGGGTCCGATCGATCCGTTACCACCCCGCTCACTGG---CCGGATACCTCGAACCT
lcl|TC299205_UP|Q9LLI5_MAIZE (CesA5)___ 3372 TTGGGTCCGATCGATCCATTCACCAACCGGCTCACTGG---TCTGATATCCGAAAT
lcl|TC311277_UP|Q9LLI8_MAIZE (CesA2)___ 3328 TTGGGTGAGATCGATCCCTTTCATCTCC--CGACACGAAAGCTGCGCTTGGGGCAAT
lcl|TC294544_UP|Q9LLI9_MAIZE (CesA1)___ 3336 TTGGGTGAGATCGATCCCTTTCATCTCC--CGACACGAAAGCTGCTGCTTGGGGCAAT

lcl|TC300086_UP|Q9LLI4_MAIZE (CesA6)___ 3436 TTGGGTCCGGATCGACCTTTCTTTCGANGSATTAAGG----TCCCTGTTGGAGGAST
lcl|TC280752_UP|Q9LLI2_MAIZE (CesA8)___ 3479 TTGGGTCCGCTCGACCCGTTCTCCTGCCAAGGCAAGG---CCGCTCCTGGAGGAGT
lcl|TC295737_UP|Q6UDF1_MAIZE (CesA10)___ 3275 TTGGGTCCGGATCGACCTTTATCCGANGGCTAAGG---CCGCTCCTCAAGCCAT
lcl|TC287832_UP|Q9LLI6_MAIZE (CesA4)___ 3538 TTGGGTCCGATCGACCCCTTACCACCCCGCTCACTGG---CCGGATACCCGAGCGT
lcl|TC287831_UP|Q9LLI1_MAIZE (CesA9)___ 3464 TTGGGTCCGATCGATCCGTTACCACCCCGCTCACTGG---CCGGATACCTCGAACCT
lcl|TC299205_UP|Q9LLI5_MAIZE (CesA5)___ 3428 TTGGGTCCGATCGATCCATTCACCAACCGGCTCACTGG---TCTGATATCCGAAAT
lcl|TC311277_UP|Q9LLI8_MAIZE (CesA2)___ 3387 TTGGGTGAGATCGATCCCTTTCATCTCC--CGACACGAAAGCTGCGCTTGGGGCAAT
lcl|TC294544_UP|Q9LLI9_MAIZE (CesA1)___ 3395 TTGGGTGAGATCGATCCCTTTCATCTCC--CGACACGAAAGCTGCTGCTTGGGGCAAT

```

lcl|TC300086_UP|Q9LLI4_MAIZE (CesA6)___ 3487 GTGGTCGACGAGGATATTTTTCAGATGTTTTGTCGCCATATTTCTTTT-TTCATTTT
lcl|TC280752_UP|Q9LLI2_MAIZE (CesA8)___ 3525 TCTGTACAGCGCCAAATTACGCCTGATTTTGT---TGTGTGTGTGT-TGGATTC
lcl|TC295737_UP|Q6UDF1_MAIZE (CesA10)___ 3327 GCCGCGGTGGTTTGGACATACAGCCACTTTGGGCCAGGCTACTCATCTCGACTTTT
lcl|TC287832_UP|Q9LLI6_MAIZE (CesA4)___ 3597 CGATGCTCTGTTTCTGTTAAGTTTATATATAAGC-----AGCAAGTGGCGTTAT
lcl|TC287831_UP|Q9LLI1_MAIZE (CesA9)___ 3516 CGAATGTCCGCTGCC--ACAATTTCTGTTASTAA-TTATATAGGCAGTGGCGTTAT
lcl|TC299205_UP|Q9LLI5_MAIZE (CesA5)___ 3486 TGCATCGTAGTATACAGTGGTGGCTCTTTTATACAT----GGTAGG-AACTTSet
lcl|TC311277_UP|Q9LLI8_MAIZE (CesA2)___ 3447 GCCCCTCTGTAAATACCTGAGGGGCTAGATGGGAATT---TTTGTGTAGATGAGGA
lcl|TC294544_UP|Q9LLI9_MAIZE (CesA1)___ 3454 GCCCCTCTGTAAATACCTGAGGAGCTAGATGGGAATTTTGTGTAGGTGAGCA

lcl|TC300086_UP|Q9LLI4_MAIZE (CesA6)___ 3546 TGTCCTCTGTACATAGAAACAGCGCAGAGGGGAAAAGGTACTTGTATTTCTTTG
lcl|TC280752_UP|Q9LLI2_MAIZE (CesA8)___ 3581 G-----CTGTACATAGAAACACATCTCCACGGCATCTCTGCTGTCCATTCGAGCAG
lcl|TC295737_UP|Q6UDF1_MAIZE (CesA10)___ 3387 T-----TTTAAATTTGTACAGATTTGTSATCGAGTCACTGAGTGACAGAGTGTG
lcl|TC287832_UP|Q9LLI6_MAIZE (CesA4)___ 3651 TTACAGCTACGTACAGCCAGTGGATATT--GTTTACACAAAGTTTAA--CTTGTGTTA
lcl|TC287831_UP|Q9LLI1_MAIZE (CesA9)___ 3574 TTACAGCTACGTACACACAGGGGATACTCCGTTTATCACTGGTGTGCTTTGTGTTG
lcl|TC299205_UP|Q9LLI5_MAIZE (CesA5)___ 3540 CGGGAG--ACGTTAATACATATGCTATATSTACCTCCGCTGGTCTTTATCCGTAAGTTA
lcl|TC311277_UP|Q9LLI8_MAIZE (CesA2)___ 3505 TGG----ATCTGCATCCAAGTTATGCCCTCTGTTTATAGCTTCTTCGGTCCGGTCCG
lcl|TC294544_UP|Q9LLI9_MAIZE (CesA1)___ 3514 TGG----ATTTCGAT--AAGTTATGTCCTCTTTCATTAGCTTCTTCCGTGCCGGTCCG

lcl|TC300086_UP|Q9LLI4_MAIZE (CesA6)___ 3606 TTCCATGGTGGTGGTGGTGGCGGCTCAGCCTCCTGAGTGCAGTATTCGGCAA----
lcl|TC280752_UP|Q9LLI2_MAIZE (CesA8)___ 3635 CAGACAGGTGCCTCTCTCTTTGTTGAGTAAATTAAGTTTAAAGTTATACAGT---
lcl|TC295737_UP|Q6UDF1_MAIZE (CesA10)___ 3440 C-GTCTAAGAACTGTGATGGAAT-TCACTCAAAATTAATGGACATTTTCTTCTCA---
lcl|TC287832_UP|Q9LLI6_MAIZE (CesA4)___ 3707 ATATCCATTTCTTTGTGATATAAT--TTATACTTTGTGGAGAG-TGGCTGACA-----
lcl|TC287831_UP|Q9LLI1_MAIZE (CesA9)___ 3634 ATATAAGTTACTTATATACCTATGCTTCTACTTTGTGGAGAG-TGGCTGACA-----
lcl|TC299205_UP|Q9LLI5_MAIZE (CesA5)___ 3598 ATATATATACTGCTTTACAGAAATTAATGATGGGCAACAGGTTCT--TACTTGTATTTGT--
lcl|TC311277_UP|Q9LLI8_MAIZE (CesA2)___ 3560 CTGCAGAC----AATCATGGAGCCTTTCTACCTTGGTGTGTGTGGCCAGCASCCTAA
lcl|TC294544_UP|Q9LLI9_MAIZE (CesA1)___ 3567 CTGCAGAC--AAGAATCAGGAGCCTTTCTACCTTCCATGTAGCCAGCCAGCASCCTAA

lcl|TC300086_UP|Q9LLI4_MAIZE (CesA6)___ 3662 --ACGGAGGCTCGGGCAACCTTGTCCAGTTCGCCACGAAATATACTAGGGAAGATCCGG
lcl|TC280752_UP|Q9LLI2_MAIZE (CesA8)___ 3692 --GATGCACATTCAGATG-CCCAGTCTAT---CCCTTTTACAGTCTTATATTAACCG
lcl|TC295737_UP|Q6UDF1_MAIZE (CesA10)___ 3494 --ACTGC
lcl|TC287832_UP|Q9LLI6_MAIZE (CesA4)___ 3758 -G-ACGAGTTTGTATGCTACGAAACAA-AGAAATTAGTTCCATTTCTTTC-----
lcl|TC287831_UP|Q9LLI1_MAIZE (CesA9)___ 3687 -GGACAGTTTCTTATGTTATGACAGCAA-AGAAATAGTTA-TTTCATAC-----
lcl|TC299205_UP|Q9LLI5_MAIZE (CesA5)___ 3655 -GTGTACATATTAAATGCTCTCCCAATAAGAGGAATTT-----
lcl|TC311277_UP|Q9LLI8_MAIZE (CesA2)___ 3616 ATTTGGAATTCGCATTTT-TTATACGTTGCTTTATTGTTTTAGAGTAAATATCATTT
lcl|TC294544_UP|Q9LLI9_MAIZE (CesA1)___ 3627 GNTTGAATTTGAAGTTTGTATCCGTCACATTTATTGTTTTAGAGTAAATATCATTT

lcl|TC300086_UP|Q9LLI4_MAIZE (CesA6)___ 3720 ACCAATCATCAATCGATCACCGACTTCTATTTGTTTC---AGCATTCCTTATTAGTTTTGG
lcl|TC280752_UP|Q9LLI2_MAIZE (CesA8)___ 3745 ACAAAAGCATATTTGGTTAG--GACTTTTATTTCTTTGTAGCAATTTGTTCCCGCCCCCCC
lcl|TC295737_UP|Q6UDF1_MAIZE (CesA10)___ -----
lcl|TC287832_UP|Q9LLI6_MAIZE (CesA4)___ -----
lcl|TC287831_UP|Q9LLI1_MAIZE (CesA9)___ -----
lcl|TC299205_UP|Q9LLI5_MAIZE (CesA5)___ -----
lcl|TC311277_UP|Q9LLI8_MAIZE (CesA2)___ 3675 TGTTTGAGTAACTATTCACACGAACT--ATAT--GGCAATCTGTATTATATACGCAAGA
lcl|TC294544_UP|Q9LLI9_MAIZE (CesA1)___ 3687 TGTTTGTGGAACTGTTCCACACGACTTATATTGGCAATCTGTATTATATACCAAGA

lcl|TC300086_UP|Q9LLI4_MAIZE (CesA6)___ 3777 TGGGTGGAATCTTCATCCGTTAGCCCAACAGA-CACTTGTTTTGTAGTATGATTGCTCT
lcl|TC280752_UP|Q9LLI2_MAIZE (CesA8)___ 3803 ACTGTTGTTGTAATAATCCGCCAATCCGCCAAGAACCGGTTGGGGCGCTCTAGCTTT
lcl|TC295737_UP|Q6UDF1_MAIZE (CesA10)___ -----
lcl|TC287832_UP|Q9LLI6_MAIZE (CesA4)___ -----
lcl|TC287831_UP|Q9LLI1_MAIZE (CesA9)___ -----
lcl|TC299205_UP|Q9LLI5_MAIZE (CesA5)___ -----
lcl|TC311277_UP|Q9LLI8_MAIZE (CesA2)___ 3733 CTGATACATCTCTCGATTGTGAGCAACACTCAGAACACTGTAATCTCTTAGGACAAC
lcl|TC294544_UP|Q9LLI9_MAIZE (CesA1)___ 3747 CTC---CATTTTTCGAAGGGGAGCAACAATCAGAACCCGTAATTTATTAGCCCAACT

lcl|TC300086_UP|Q9LLI4_MAIZE (CesA6)___ 3836 GCATCTGCAAAGTTGTTG--TTGTGATCCGCTGCTCAATGAGGCGAGGGTGGAACTGG
lcl|TC280752_UP|Q9LLI2_MAIZE (CesA8)___ 3863 GTGATCATATAGAAAACGACTTGGTGTGTTTTGGACATTTGGAATGAAGGAAGGA-TGA
lcl|TC295737_UP|Q6UDF1_MAIZE (CesA10)___ -----
lcl|TC287832_UP|Q9LLI6_MAIZE (CesA4)___ -----
lcl|TC287831_UP|Q9LLI1_MAIZE (CesA9)___ -----
lcl|TC299205_UP|Q9LLI5_MAIZE (CesA5)___ -----
lcl|TC311277_UP|Q9LLI8_MAIZE (CesA2)___ 3793 ATGTAAGGAGCTGTTGTATCATCTCTATTGTTTCTAATGGCCGAGGATATGTAGATGT
lcl|TC294544_UP|Q9LLI9_MAIZE (CesA1)___ 3804 -----

```

Figure 1S. Alignment (ClustalW) of 8 full-length *CesA* cDNAs (ZmGI) expressed in maize ovaries. The full-length sequences share up to 94% identity, but are divergent in their 3'UTRs (Holland et al., 2000). The 3'-anchored consensus sequences identified in the 2-sample multiplex library are highlighted in red. Where transcript variants were identified (*CesA4* and *CesA6*), the most highly represented variant is shown. Only a partial EST sequence is available for *CesA3* and is not included in the alignment. All *CesA* 3'-anchored sequences identified are listed in Table 2S.