

		10	20	30	40	50	60	70		
ZmPLATZ4 (cloned)		ATGATGCCGCGGCGGTGGCGTCGGTGCCCGTGCCCCACTGGCTGGAGGCGTGTCTGGCCACGCGCTTCT								
ZmPLATZ4 (predicted)		ATGATGCCGCGGCGGTGGCGTCGGTGCCCGTGCCCCACTGGCTGGAGGCGTGTCTGGCCACGCGCTTCT								
		80	90	100	110	120	130	140		
ZmPLATZ4 (cloned)		TCTTCGCCTGCGCCGCGCACCCGGCGTCCCCGCGCAACGAGTGCAACATGTTCTGCCTCGACTGCACGGG								
ZmPLATZ4 (predicted)		TCTTCGCCTGCGCCGCGCACCCGGCGTCCCCGCGCAACGAGTGCAACATGTTCTGCCTCGACTGCACGGG								
		150	160	170	180	190	200	210		
ZmPLATZ4 (cloned)		CGCGCGCCGCGCGCCGCGCGCGCCTTCTGTACTACTGCCGCGCGCACCGACACTCGTCGCACCCGCGTC								
ZmPLATZ4 (predicted)		CGCGCGCCGCGCGCCGCGCGCGCCTTCTGTACTACTGCCGCGCGCACCGACACTCGTCGCACCCGCGTC								
		220	230	240	250	260	270	280		
ZmPLATZ4 (cloned)		ATCCAGATAAGGCGGTCTCTACCACGACGTGGTCCGCGTGTGCGAGGTGGAGGACGTGCTCGACATCT								
ZmPLATZ4 (predicted)		ATCCAGATAAGGCGGTCTCTACCACGACGTGGTCCGCGTGTGCGAGGTGGAGGACGTGCTCGACATCT								
		290	300	310	320	330	340	350		
ZmPLATZ4 (cloned)		CCGCGGTGCAGACCTACGTTATCAACAGCGCCCGGTGCTCTTCTCAACGAGAGGCCAGCCGCGCGG								
ZmPLATZ4 (predicted)		CCGCGGTGCAGACCTACGTTATCAACAGCGCCCGGTGCTCTTCTCAACGAGAGGCCAGCCGCGCGG								
		360	370	380	390	400	410	420		
ZmPLATZ4 (cloned)		CGCCGGCGCGGCCGCGGGCAAGGCCGCGCGTCCCCCTACAAC TGCGAGATCTGCGGCCGCGCGTGCTC								
ZmPLATZ4 (predicted)		CGCCGGCGCGGCCGCGGGCAAGGCCGCGCGTCCCCCTACAAC TGCGAGATCTGCGGCCGCGCGTGCTC								
		430	440	450	460	470	480	490		
ZmPLATZ4 (cloned)		GACCCCTTCCGCTTCTGCTCGCTCGGATGCAAGCTGGTGGACACCAAGAGGAGCAACGGCCACGCGGCTA								
ZmPLATZ4 (predicted)		GACCCCTTCCGCTTCTGCTCGCTCGGATGCAAGCTGGTGGACACCAAGAGGAGCAACGGCCACGCGGCTA								
		500	510	520	530	540	550	560		
ZmPLATZ4 (cloned)		GTTCCGCGGACGGAGGCGGCGGCGGCGGCGCGCAGCCAGTGGCAATGACGAGACGACGGAGGCCGCGCGG								
ZmPLATZ4 (predicted)		GTTCCGCGGACGGAGGCGGCGGCGGCGGCGGCGCAGCCAGTGGCAATGACGAGACGACGGAGGCCGCGCGG								
		570	580	590	600	610	620	630		
ZmPLATZ4 (cloned)		GAGCAAGAACGGCCCCGGGGCGCGCCGCACGGACGGCGGCGGAAGGGGACCCACACCGCGCGCCCTTC								
ZmPLATZ4 (predicted)		GAGCAAGAACGGCCCCGGGGCGCGCCGCACGGACGGCGGCGGAAGGGGACCCACACCGCGCGCCCTTC								
ZmPLATZ4 (cloned)		TGGTCCTGA								
ZmPLATZ4 (predicted)		TGGTCCTGA								

	10	20	30	40	50	60	70
							
ZmPLATZ9 (cloned)	ATGATCATGCAGGCAATGTGGAAGCCAGGATGGCTAGAGGCCCTTGACACACAGAAGTTCTTCGTAGCAT						
ZmPLATZ9 (predicted)	ATGATCAT---GGCAATGTGGAAGCCAGGATGGCTAGAGGCCCTTGACACACAGAAGTTCTTCGTAGCAT						
	80	90	100	110	120	130	140
							
ZmPLATZ9 (cloned)	GCTCTTTCCATGAGCATGCCAAGAAGAACGAGAAGAACATCTGTTGCCTTGACTGCTGCACTAGCATCTG						
ZmPLATZ9 (predicted)	GCTCTTTCCATGAGCATGCCAAGAAGAACGAGAAGAACATCTGTTGCCTTGACTGCTGCACTAGCATCTG						
	150	160	170	180	190	200	210
							
ZmPLATZ9 (cloned)	CCCACACTGTGTGGCAGCACACCGTGCACACAGGCTCCTGCAGGTGCGGCGATACGTCTACCATGACGTT						
ZmPLATZ9 (predicted)	CCCACACTGTGTGGCAGCACACCGTGCACACAGGCTCCTGCAGGTGCGGCGATACGTCTACCATGACGTT						
	220	230	240	250	260	270	280
							
ZmPLATZ9 (cloned)	GTCCGGCTGGAGGACCTGGAGAAGCTTATTGATTGCTCTAGTGTTCAGTCTTATACTATTAACAGCTCTA						
ZmPLATZ9 (predicted)	GTCCGGCTGGAGGACCTGGAGAAGCTTATTGATTGCTCTAGTGTTCAGTCTTATACTATTAACAGCTCTA						
	290	300	310	320	330	340	350
							
ZmPLATZ9 (cloned)	AGGTTGTTTTCCTGAAGAAGAGACCACAGAATAGGCAATTCAAGGGTTCAGGGAATATCTGCACCTCCTG						
ZmPLATZ9 (predicted)	AGGTTGTTTTCCTGAAGAAGAGACCACAGAATAGGCAATTCAAGGGTTCAGGGAATATCTGCACCTCCTG						
	360	370	380	390	400	410	420
							
ZmPLATZ9 (cloned)	CGACAGGAGCCTTCAAGAACCGTATTTCCTGCTCTCTGGATTGCAAGGTAGAGTATATACTACGACAG						
ZmPLATZ9 (predicted)	CGACAGGAGCCTTCAAGAACCGTATTTCCTGCTCTCTGGATTGCAAGGTAGAGTATATACTACGACAG						
	430	440	450	460	470	480	490
							
ZmPLATZ9 (cloned)	AAGAAAAAATTGTCAGCATATTTGCGCCCATGCAAGACCTTGCAAGCTTGCCCTGATTTCCTCATTCTC						
ZmPLATZ9 (predicted)	AAGAAAAAATTGTCAGCATATTTGCGCCCATGCAAGACCTTGCAAGCTTGCCCTGATTTCCTCATTCTC						
	500	510	520	530	540	550	560
							
ZmPLATZ9 (cloned)	ATGATGCTGATGACGACACAACCTCAACCCCTGTTGATGTTGATGAGCCCATGGGATCATCGGACTC						
ZmPLATZ9 (predicted)	ATGATGCTGATGACGACACAACCTCAACCCCTGTTGATGTTGATGAGCCCATGGGATCATCGGACTC						
	570	580	590	600	610	620	630
							
ZmPLATZ9 (cloned)	GGAGAATTTGAGTGTGCCGTGCACAAATTTTGTTCGGAAAAAACGGAGTGGACCATATATTTGTGCACGG						
ZmPLATZ9 (predicted)	GGAGAATTTGAGTGTGCCGTGCACAAATTTTGTTCGGAAAAAACGGAGTGGACCATATATTTGTGCACGG						
	640	650	660	670	680	690	700
							
ZmPLATZ9 (cloned)	TCTGCAAACAGAGTGTCTGAAGAAGACATGGCCACAAATATGAGCAGAAGGAAAGGGTTCTCAGAGAT						
ZmPLATZ9 (predicted)	TCTGCAAACAGAGTGTCTGAAGAAGACATGGCCACAAATATGAGCAGAAGGAAAGGGTTCTCAGAGAT						
	710						
							
ZmPLATZ9 (cloned)	CGCCTTTGTGCTAA						
ZmPLATZ9 (predicted)	CGCCTTTGTGCTAA						

	10	20	30	40	50	60	70
							
ZmPLATZ11 (cloned)	ATGGCGATAGACCACGCGGCGCTCTCGGACTGACGAGCAGAGGTGCCACGGGAGGCGGCGGGTGCGGAG						
ZmPLATZ11 (predicted)	ATGGCGATAGACCACGCGGCGCTCTCGGACTGACGAGCAGAGGTGCCACGGGAGGCGGCGGGTGCGGAG						
	80	90	100	110	120	130	140
							
ZmPLATZ11 (cloned)	ACGACGACGCGGAGACCGGCGGTGGCCGCCGTGGCTGAAGCCGCTGCTGTGCACGAGCTTCTTCGT						
ZmPLATZ11 (predicted)	ACGACGTCGACGCGGAGACCGGCGGTGGCCGCCGTGGCTGAAGCCGCTGCTGTGCACGAGCTTCTTCGT						
	150	160	170	180	190	200	210
							
ZmPLATZ11 (cloned)	CCAATGCAGGATCCACGCCGACGCGCACAAGAGCGAGTGCAACATGTACTGCCTCGACTGCATGGACGGC						
ZmPLATZ11 (predicted)	CCAATGCAGGATCCACGCCGACGCGCACAAGAGCGAGTGCAACATGTACTGCCTCGACTGCATGGACGGC						
	220	230	240	250	260	270	280
							
ZmPLATZ11 (cloned)	GCGCTCTGCTCCCTCTGCCTCGCGCGCCACCGCGACCACCACTCCATCCAGATACGAGGTCGTCGTACC						
ZmPLATZ11 (predicted)	GCGCTCTGCTCCCTCTGCCTCGCGCGCCACCGCGACCACCACTCCATCCAGATACGAGGTCGTCGTACC						
	290	300	310	320	330	340	350
							
ZmPLATZ11 (cloned)	ACGACGTGATCCGGGTGTCGGAGATACACAAGGTGCTGGACATCGCCGGCGTGCAGACGTACATCATCAA						
ZmPLATZ11 (predicted)	ACGACGTGATCCGGGTGTCGGAGATACACAAGGTGCTGGACATCGCCGGCGTGCAGACGTACATCATCAA						
	360	370	380	390	400	410	420
							
ZmPLATZ11 (cloned)	CAGCGCGCGGTGGTGTTCCTCAACGAGCGCCCGCAGCCTCGCCGGGCAAGGGCGTCACCAACACCTGC						
ZmPLATZ11 (predicted)	CAGCGCGCGGTGGTGTTCCTCAACGAGCGCCCGCAGCCTCGCCGGGCAAGGGCGTCACCAACACCTGC						
	430	440	450	460	470	480	490
							
ZmPLATZ11 (cloned)	GAGGTCTGCGAGCGCAGCCTCCTCGACTGCTTCCGCTTCTGCTCCCTCGGGTGCAAGATAGTGGGCACGG						
ZmPLATZ11 (predicted)	GAGGTCTGCGAGCGCAGCCTCCTCGACTGCTTCCGCTTCTGCTCCCTCGGGTGCAAGATAGTGGGCACGG						
	500	510	520	530	540	550	560
							
ZmPLATZ11 (cloned)	CCCGTGGTTACCGTCCCAAGAAGAAGCAGGCGAGCGGAGGCGGCGGTAACAAGAGGAAGAGAGCGGC						
ZmPLATZ11 (predicted)	CCCGTGGTTACCGTCCCAAGAAGAAGCAGGCGAGCGGAGGCGGCGGTAACAAGAGGAAGAGAGCGGC						
	570	580	590	600	610	620	630
							
ZmPLATZ11 (cloned)	GCTTAAGGACGTGCGCTCTGACTCGGAGGAGTCGTGCACCAGCACCAGCGGCGCCAGCAGCGACAAGAGC						
ZmPLATZ11 (predicted)	GCTTAAGGACGTGCGCTCTGACTCGGAGGAGTCGTGCACCAGCACCAGCGGCGCCAGCAGCGACAAGAGC						
	640	650	660	670	680	690	700
							
ZmPLATZ11 (cloned)	AGCGTCGTGCAGAGCTTCTCGCCGTCGACCCCGCCGCGCCTCCGCTAGCTACCGCCGCCAGGGAACA						
ZmPLATZ11 (predicted)	AGCGTCGTGCAGAGCTTCTCGCCGTCGACCCCGCCGCGCCTCCGCTAGCTACCGCCGCCAGGGAACA						

	710	720	730	740	750
					
ZmPLATZ11 (cloned)	AGCGCCGGAAGGGCGTCCCGCACCGGTC				
ZmPLATZ11 (predicted)	AGCGCCGGAAGGGCGTCCCGCACCGGTC				

CCCTTCGGTAGCCTCATCGTCGAGTTCTAG
CCCTTCGGTAGCCTCATCGTCGAGTTCTAG

	10	20	30	40	50	60	70
ZmPLATZ14(cloned)	ATGTCTTGCATAGGTGGTTCTCTCTTCCACGGCGAGCAACAAGAGAAAGGAAAGGAGATTGTGGTGG						
ZmPLATZ14(predicted)	ATGTCTTGCATAGGTGGTTCTCTCTTCCACGGCGAGCAACAAGAGAAAGGAAAGGAGATTGTGGTGG						
	80	90	100	110	120	130	140
ZmPLATZ14(cloned)	AGGTGCCAGCTGTGGTGGAGGAGGAG---AAGCAGCAACAGCAGCACAGAAAGGAAAGGAGGTTGCGTT						
ZmPLATZ14(predicted)	AGGTGTCAGCTGTGGTGGAGGAGGAGGAG---AAGCAGCAGCAGCAGCACAGAAAGGAAAGGAGGTTGCGTT						
	150	160	170	180	190	200	210
ZmPLATZ14(cloned)	GGAGGAGGTGCCACTGCCAGCAGTGGCGGAGTCTTACGACGATTGAGATTAGATTCCGGTTCTGGATGG						
ZmPLATZ14(predicted)	GGAGGAGGTGCCACTGCCAGCAGTGGCGGAGTCTTACGACGATTGAGATTAGATTCCGGTTCTGGTTGG						
	220	230	240	250	260	270	280
ZmPLATZ14(cloned)	GATTCTTCTACGAGGAGGAGGACTCGAAGAAGAAGGAGCAAGAGAGGAAGGAAAAGAAACCTGCATGGCTGG						
ZmPLATZ14(predicted)	GACTTCTACGAGGAGGAGTACTCGAAGAAGAAGGAGCAAGAGAGGAAGGAAAAGAAACCTGCATGGCTGG						
	290	300	310	320	330	340	350
ZmPLATZ14(cloned)	ATACGCTGCTGAGAACCAAGTTCTGGGACCCGTGCAAGGAGCACGGGTCCAAGAACAGGGCAGACCAGTG						
ZmPLATZ14(predicted)	ATACGCTGCTGAGAACCAAGTTCTGGGACCCGTGCAAGGAGCACGGGTCCAAGAACAGGGCAGACCAGTG						
	360	370	380	390	400	410	420
ZmPLATZ14(cloned)	CATGTTCTGCCTCAGGTGCTCCAAGCTGAGCTGCCCTCGCTGTGTCCACGACCAGCCGGCCACCGCCTC						
ZmPLATZ14(predicted)	CATGTTCTGCCTCAGGTGCTCCAAGCTGAGCTGCCCTCGCTGTGTCCACGACCAGCCGGCCACCGCCTC						
	430	440	450	460	470	480	490
ZmPLATZ14(cloned)	CTCAAGATCCGCCGCTACGTCTACCGCTCCGTCGTCCACGCTTCCGACATGCAGGAGCTCGGCATCGACG						
ZmPLATZ14(predicted)	CTCAAGATCCGCCGCTACGTCTACCGCTCCGTCGTCCACGCTTCCGACATGCAGGAGCTCGGCATCGACG						
	500	510	520	530	540	550	560
ZmPLATZ14(cloned)	TCTCCAGGATACAGACATATGTCATCAATGCGAGAAAAGTGCTGCATCTGAGGCCCATGAACAGATCCAA						
ZmPLATZ14(predicted)	TCTCCAGGATACAGACATATGTCATCAATGCGAGAAAAGTGCTGCATCTGAGGCCCATGAACAGATCCAA						
	570	580	590	600	610	620	630
ZmPLATZ14(cloned)	GCATTTCAGGCCTCAAGCAGGGACACCTCGCTGCATAACCTGCAGGACCTGGCTGCGTAGCGCGCCCAAC						
ZmPLATZ14(predicted)	GCATTTCAGGCCTCAAGCAGGGACACCTCGCTGCATAACCTGCAGGACCTGGCTGCGTAGCGCGCCCAAC						
	640	650	660	670	680	690	700
ZmPLATZ14(cloned)	TTATTCTGCTCCCTTACCTGTGAGGAGGATGTTGATGTGTGCGCAAGACGACTTCTCAGGGCCCCGAAGCTG						
ZmPLATZ14(predicted)	TTATTCTGCTCCCTTACCTGTGAGGAGGATGTTGATGTGTGCGCAAGACGACTTCTCAGGGCCCCGAAGCTG						
	710	720	730	740	750	760	770

	
ZmPLATZ14(cloned)	AGCTCCGCTACAGGAGTTTCCAAGTGCATATGGCTGAACCTGCTGAGGAGCTGTTGCCTGATGACCCTGA
ZmPLATZ14(predicted)	AGCTCCGCTACAGGAGTTTCCAAGTGCATATGGCTGAACCTGCTGAGGAGCTGTTGCCTGATGACCCTGA
	780790800810820830840
	
ZmPLATZ14(cloned)	AGTTGAGCATGAGATCATGCCTGCACAAGTTGAGCCGCCACCACCGGCGGCCGCCGCCGCCGCAAATCAG
ZmPLATZ14(predicted)	AGTTGAGCATGAGATCATGCCTGCACAAGTTGAGCCGCCACCCTGGCGGCAAGCCGCCGCCGCCGCAAATCAG
	850860870880890900
	
ZmPLATZ14(cloned)	AACGTGTCACTCCGCAGGCGGGCGCGCAAGCAGGCAGCGCCATTGAGGGCGCCGTTCTTCTGA
ZmPLATZ14(predicted)	AACGTGTCACTCCGCAGGCGGGCGCGCAAGCAGGCAGCGCCATTGAGGGCGCCGTTCTTCTGA

	10	20	30	40	50	60	70
							
ZmPLATZ17 (cloned)	ATGGGGATGAGGCCCGGGTGGGTGGCGGGCTGGTGGAGGAGAGCTTCTTCGTGGGGTGCGCGGCGCACG						
ZmPLATZ17 (predicted)	ATGGGGATGAGGCCCGGGTGGGTGGCGGGCTGGTGGAGGAGAGCTTCTTCGTGGGGTGCGCGGCGCACG						
	80	90	100	110	120	130	140
							
ZmPLATZ17 (cloned)	AGGACCGGAAGAAGAACGAGAAGAACATCTTCTGCCTGGGCTGCTGCGCCAGCATCTGCCCCGACTGCGC						
ZmPLATZ17 (predicted)	AGGACCGGAAGAAGAACGAGAAGAACATCTTCTGCCTGGGCTGCTGCGCCAGCATCTGCCCCGACTGCGC						
	150	160	170	180	190	200	210
							
ZmPLATZ17 (cloned)	CCCCGCGCACCGCCACCACCTCCTCCTCCAGGTGCGGAGGTACGTGTACAATGACGTGGTGCGCCTTGAC						
ZmPLATZ17 (predicted)	CCCCGCGCACCGCCACCACCTCCTCCTCCAGGTGCGGAGGTACGTGTACAATGACGTGGTGCGCCTTGAC						
	220	230	240	250	260	270	280
							
ZmPLATZ17 (cloned)	GACCTCGAGAGGCTCATCGACTGCTCCTTCGTCCAGCCCTACACGATCAACAGTGCCAAGGTGATCTTCC						
ZmPLATZ17 (predicted)	GACCTCGAGAGGCTCATCGACTGCTCCTTCGTCCAGCCCTACACGATCAACAGTGCCAAGGTGATCTTCC						
	290	300	310	320	330	340	350
							
ZmPLATZ17 (cloned)	TCAAGCCGCGGCCGAGTCCAGGCCCTTCAAGGGCTCTGGCAACGTCTGCTTGGCCTGTGACAGGATCCT						
ZmPLATZ17 (predicted)	TCAAGCCGCGGCCGAGTCCAGGCCCTTCAAGGGCTCTGGCAACGTCTGCTTGGCCTGTGACAGGATCCT						
	360	370	380	390	400	410	420
							
ZmPLATZ17 (cloned)	CCAGGAGCCCTTCCACTTCTGCTGCCTCTCCTGCAAGGTGGACCATGTGATGATGCAGGGCGGGGACCTG						
ZmPLATZ17 (predicted)	CCAGGAGCCCTTCCACTTCTGCTGCCTCTCCTGCAAGGTGGACCATGTGATGATGCAGGGCGGGGACCTG						
	430	440	450	460	470	480	490
							
ZmPLATZ17 (cloned)	TCCAACATCCTCCTGTACGTGCCGGGCGGGCCGCCGACCTGGGCTGCGGCTTCCCGCGCTTCGAGAACC						
ZmPLATZ17 (predicted)	TCCAACATCCTCCTGTACGTGCCGGGCGGGCCGCCGACCTGGGCTGCGGCTTCCCGCGCTTCGAGAACC						
	500	510	520	530	540	550	560
							
ZmPLATZ17 (cloned)	TCCGCTTCGACGACGACCCCGGGCAGTACGGGCAGGCCACGCCAGCTCCATCCTCGAAGACCCCGTCGA						
ZmPLATZ17 (predicted)	TCCGCTTCGACGACGACCCCGGGCAGTACGGGCAGGCCACGCCAGCTCCATCCTCGAAGACCCCGTCGA						
	570	580	590	600	610	620	630
							
ZmPLATZ17 (cloned)	GCACGGGGGCAGCGCCAGCGCCAGCGGAGGATCCAGCAACGGCGGCTCGGCCAGGAACCACGCGCGGCGC						
ZmPLATZ17 (predicted)	GCACGGGGGCAGCGCCAGCGCCAGCGGAGGATCCAGCAACGGCGGCTCGGCCAGGAACCACGCGCGGCGC						
	640	650	660	670	680	690	700
							
ZmPLATZ17 (cloned)	GACGTCGACGTCCCGACGAGGAAGAAGAAGAGCGGCGGGGCGGAGGAGGGTTCTTCCCTCAGATCGTCC						
ZmPLATZ17 (predicted)	GACGTCGACGTCCCGACGAGGAAGAAGAAGAGCGGCGGGGCGGAGGAGGGTTCTTCCCTCAGATCGTCC						

710 720 730 740 750

ZmPLATZ17 (cloned) TCTCGCTCGGCAACAGGCGGAAGGGCGCGCCCCATAGGGCGCGGCTCGCGTAA

ZmPLATZ17 (predicted) TCTCGCTCGGCAACAGGCGGAAGGGCGCGCCCCATAGGGCGCGGCTCGCGTAA

Supplemental Fig1 Sequence alignment of ZmPLATZ4&9&11&14&17 CDS from cloned and predicted.