

Construct	N	Primer name	AE	Nucleotides (5'-3')	Sequence	Restriction enzymes	Vector
AE2a Δ659 (660-1237)	1	AKS-C-term PXT7 rev	AE2 AE2	2157-2178	5'-CCGGAATTCAGATTTGGCCATG GTAGAGGTGGCAGGTGCAG-3'	<i>EcoRI/BsrGI</i>	PXT7
*AE1 ₍₁₋₄₂₂₎ /AE2 ₍₇₀₄₋₁₂₃₇₎	2				(Zhang <i>et al.</i> , 1996)		
AE2 ₍₁₋₁₁₁₉₎ /AE1 ₍₈₁₂₋₉₂₉₎	3				N.A. Ligation of restriction fragments	Digest AE2a (PXT7) - <i>BsrGI/XbaI</i> and AE2 ₍₁₋₉₂₀₎ /AE1 ₍₆₁₃₋₉₂₉₎ with <i>BsrGI/XbaI</i>	PXT7
AE2 ₍₁₋₉₂₀₎ /AE1 ₍₆₁₃₋₉₂₉₎	4	AE1.F1 T7 AE2.R2 SZ-14	AE1 AE1 AE2 AE2	2922-2942/ 1963-1983 1983-1963/ 2942-2922 2157-2178	5'-CTGCGCAAGTTCAAGAACAGC- ACCTACTTCCCTGGCAAGCTG-3' 5'-TAATACGACTCACTATAGGG - 3 5'-CAGCTTGCCAGGGAAGTAGGT- GTTCTTGAACCTGCGCAG-3' 5'-ATGGTAGAGGTGGCAGGTGCAG-3'	Digest AE2a (PXT7) - <i>StuI/SpeI</i> and PCR fragment <i>StuI/AvrII</i>	PXT7
AE2 ₍₁₋₉₂₀₎ /AE1 ₍₆₁₃₋₈₁₁₎ /AE2 ₍₁₁₂₀₋₁₂₃₇₎	5				N.A. Ligation of restriction fragments	Digest AE2a PΔX - <i>SbfI/BsrGI</i> and AE2 ₍₁₋₉₂₀₎ /AE1 ₍₆₁₃₋₉₂₉₎ <i>SbfI/BsrGI</i>	PΔX
AE2 ₍₁₋₇₀₃₎ /AE1 ₍₄₂₃₋₈₁₁₎ /AE2 ₍₁₁₂₀₋₁₂₃₇₎	6				N.A. Ligation of restriction fragments	Digest AE2a PΔX - <i>SbfI/BsrGI</i> and *AE2 _{cyto} /AE1 _{mem} - <i>SbfI/BsrGI</i>	PΔX
AE2 ₍₁₋₇₀₃₎ /AE1 ₍₄₂₃₋₆₁₂₎ /AE2 ₍₉₂₁₋₁₂₃₇₎	7	AE2.F2 SZ-18 AKS2.F4 AE1.R1	AE1 ₍₁₋₆₁₂₎ / AE2 ₍₉₂₁₋₁₂₃₇₎ AE2 ₍₁₋₇₀₃₎ / AE1 ₍₄₂₃₋₉₂₉₎	1942-1962/ 2943-2963 3876-3896 1557-1577 2943-2963/ 1942-1962	5'-CTACGAAAGTTCAAGAACAGC- CGGTTCTTCCCTGGCCGGATC-3' 5'-CTACACAGGCATGGGCATCTC-3' 5'-CCTCATGTCACTGAGCCTCTC-3' 5'-GATCCGGCCAGGGAAGAACCG- GCTGTTCTTGAACCTTTCGTAG-3'	Digest AE2a PΔX - <i>SbfI/BsrGI</i> and PCR fragment - <i>SbfI/BsrGI</i>	PΔX
AE1 ₍₁₋₆₁₂₎ /AE2 ₍₉₂₁₋₁₂₃₇₎	8	AE2.F2 SZ-18 AE1.RI AE1-F1	AE2a kAE1	1942-1962/ 2943-2963 3876-3896 2943-2963/ 1942-1962 1219-1242	5'-CTACGAAAGTTCAAGAACAGC- CGGTTCTTCCCTGGCCGGATC-3' 5'-CTACACAGGCATGGGCATCTC-3' 5'-GATCCGGCCAGGGAAGAACCG- GCTGTTCTTGAACCTTTCGTAG-3' 5'-CTAGACTGCTTCATCTACGAG-3'	PCR fragment digested with <i>EcoRV/BsrGI</i> , kAE1 digested with <i>EcoRI/EcoRV</i> and AE2a (PXT7) digested with <i>EcoRI/BsrGI</i>	PXt7
*AE2 ₍₁₋₇₀₃₎ /AE1 ₍₄₂₃₋₉₂₉₎	9				(Zhang <i>et al.</i> , 1996)		
AE1-AE2(EC3)	10	CK-AE1-R1 AE1-F1 CK-AE1-F2 SZ-18	AE1 AE1 AE2 AE2	1794-1818 /2714-2732 1219-1242 1796-1818/ 2714-2734 3876-3896	5'-GCCATGGAGTGGGTGCTC-CTGG AAAATCTTGATCAGCTTGGAG-3' 5'-GCCAAGCCAGACCCCAACTTGTAC-3' 5'-CCAAGCTGATCAAGATTTTCCAG- GAGCACCCACTCCATGGCTG-3' 5'-CTACACAGGCATGGGCATCTC-3'	Digest kAE1-pBL and PCR fragment with <i>StuI</i> and <i>SphI</i>	pBL PΔX
AE2-AE1(EC3)	11	SZ-26 CK-AE2-R1 AE1.3PR1 CK-AE2-F2	AE2 AE2 AE1 AE1	1819-1835/ 2715-2683 2949-2934 2692-2714/ 1819-1835	5'-TGTTGTAGTGGGTAGTC-CTGGAAG ATCTTGATCAGCTTATAGAAG-3' 5'-GAAAGTGGAGTGGTTG-3' 5'-ATAAGCTGATCAAGATCTTCC AG-GACTACCCACTACAACAG	Digest AE2a PΔX and PCR fragment with <i>StuI</i> and <i>BsrGI</i>	PΔX pBL

Supplemental Table 1. Construction of AE chimeras.