

Fig. S3

WT	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGCGCGCAGCGCCAGACGTGGCACGGCGACCTCGC	279
22-10	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGCGCGCAGCGCCAGACGTGGCACGGCGACCTCGC	253
22-1	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGCGCGCAGCGCCAGACGTGGCACGGCGACCTCGC	254
22-2	TCGTTACAGTGTTACTGGTCGCTCTGATCACC-----	AGACGTGGCACGGCGACCTCGC	227
22-3	TCGTTACAGTGTTACTGGTCGCTCTGATCACC-----	AGACGTGGCACGGCGACCTCGC	230
22-4	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGCGCGCAGCGCCAGACGTGGCACGGCGACCTCGC	252
22-5	TCGTTACAGTGTTACTGGTCGCTCTGATCACC-----	AGACGTGGCACGGCGACCTCGC	228
22-6	TCGTTACAGTGTTACTGGTCGCTCTGATCACC-----	AGACGTGGCACGGCGACCTCGC	230
22-7	TCGTTACAGTGTTACTGGTCGCTCTGATCACC-----	ASACGTGGCACGGCGACCTCGC	228
22-8	TCGTTACAGTGTTACTGGTCGCTCTGATCACC-----	AGACGTGGCACGGCGACCTCGC	228
22-9	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGCGCGCAGCGCCAGACGTGGCACGGCGACCTCGC	253

WT	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGCGCGTCTC-CTACCGCGCA	-CGGCCAGACGTGGCACGGCGACCTCG	278
27-10	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGCGCGTCTCTCTACGGCGCA	-CGGCCAGACGTGGCACGGCGACCTCG	253
27-1	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGCGCGTCTCACTACGGCGCA	-CGGCCAGACGTGGCACGGCGACCTCG	253
27-2	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGCGCGTCTCCCTACGGCGCA	-CGGCCAGACGTGGCACGGCGACCTCG	254
27-4	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGCGCGTCTCACTACGGCGCA	-CGGCCAGACGTGGCACGGCGACCTCG	253
27-5	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGCGCGTACGCCGCGTGCCACGGCGACCA	CGTGGCACGGCGACCTCG	256
27-6	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGCGCGTCTCCCTACGGCGCA	-CGGCCAGACGTGGCACGGCGACCTCG	252
27-7	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGCGCGTCTCTCTACGGCGCA	-CGGCCAGACGTGGCACGGCGACCTCG	254
27-8	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGCGCGTCTCTCTACGGCGCA	-CGGCCAGACGTGGCACGGCGACCTCG	252
27-9	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGCGCGTCTCACTACGGCGCA	-CGGCCAGACGTGGCACGGCGACCTCG	253
27-3	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGCGCGTCTCACTACGGCGCA	-CGGCCAGACGTGGCACGGCGACCTCG	249

WT	TCGTTACAGTGTTACTGGTCGCTCTGATCACCGCGGCGTCTCC--TACCGCGCACGGCCAGACGTGGCACGGCGACCTCGCGGCGCTCGCCGCGGCAGGCAAGCTCCGAGCGACCCCCAA	318
28-6	TCGTTACAGTGTTACTGGTCGCTCTGATCACCGCGGCGTCTCTC-TACGGCGCACGGCCAGACGTGGCACGGCGACCTCGCGGCGCTCGCCGCGGCAGGCAAGCTCCGAGCGACCCCCAA	294
28-7	TCGTTACAGTGTTACTGGTCGCTCTGATCACCGCGGCGTCTCTC-TACGGCGCACGGCCAGACGTGGCACGGCGACCTCGCGGCGCTCGCCGCGGCAGGCAAGCTCCGAGCGACCCCCAA	294
28-8	TCGTTACAGTGTTACTGGTCGCTCTGATCACCGCGGCGTCTCCCCTACGGCGCACGGCCAGACGTGGCACGGCGACCTCGCGGCGCTCGCCGCGGCAGGCAAGCTCCGAGCGACCCCCAA	293
28-9	TCGTTACAGTGTTACTGGTCGCTCTGATCACCGCGGCGTCTCTC-TACGGCGCACGGCCAGACGTGGCACGGCGACCTCGCGGCGCTCGCCGCGGCAGGCAAGCTCCGAGCGACCCCCAA	293
28-10	TCGTTACAGTGTTACTGGTCGCA-----GGCGCTCGCCGCGGCAGGCAAGCTCCGAGCGACCCCCAA	235
28-2	TCGTTACAGTGTTACTGGTCGCA-----GGCGCTCGCCGCGGCAGGCAAGCTCCGAGCGACCCCCAA	237
28-1	TCGTTACAGTGTTACTGGTCGCTCTGATCACCGCGGCGTCTCCC-TACGGCGCACGGCCAGACGTGGCACGGCGACCTCGCGGCGCTCGCCGCGGCAGGCAAGCTCCGAGCGACCCCCAA	294
28-3	TCGTTACAGTGTTACTGGTCGCTCTGATCACCGCGGCGTCTCTC-TACGGCGCACGGCCAGACGTGGCACGGCGACCTCGCGGCGCTCGCCGCGGCAGGCAAGCTCCGAGCGACCCCCAA	293
28-4	TCGTTACAGTGTTACTGGTCGCTCTGATCACCGCGGCGTCTCAC-TACGGCGCACGGCCAGACGTGGCACGGCGACCTCGCGGCGCTCGCCGCGGCAGGCAAGCTCCGAGCGACCCCCAA	292
28-5	TCGTTACAGTGTTACTGGTCGCTCTGATCACCGCGGCGTCTCAC-TACGGCGCACGGCCAGACGTGGCACGGCGACCTCGCGGCGCTCGCCGCGGCAGGCAAGCTCCGAGCGACCCCCAA	293

WT	ATCGTTCACGTGTTACTGGTCGCTCTGATCACCGCGGCGTCTC-CTACCGCGCACGGCCAGACGTGGCACGGCGACCTCG	278
29-1	ATCGTTCACGTGTTACTGGTCGCTCTGATCACCGCGGCGTCTC--TACGGCGCACGGCCAGACGTGGCACGGCGACCTCG	252
29-10	ATCGTTCACGTGTTACTGGTCGCTCTGATCACCGCGGCGTCTCACTACGGCGCACGGCCAGACGTGGCACGGCGACCTCG	252
29-2	ATCGTTCACGTGTTACTGGTCGCTCTGATCACCGCGGCGTCTC--TACGGCGCACGGCCAGACGTGGCACGGCGACCTCG	252
29-3	ATCGTTCACGTGTTACTGGTCGCTCTGATCACCGCGGCGTCTCACTACGGCGCACGGCCAGACGTGGCACGGCGACCTCG	252
29-4	ATCGTTCACGTGTTACTGGTCGCTCTGATCACCGCGGCGTCTC-CTACGGCGCACGGCCAGACGTGGCACGGCGACCTCG	253
29-5	ATCGTTCACGTGTTACTGGTCGCTCTGATCACCGCGGCGTCTC--TACGGCGCACGGCCAGACGTGGCACGGCGACCTCG	253
29-6	ATCGTTCACGTGTTACTGGTCGCTCTGATCACCGCGGCGTCTCCCTACGGCGCACGGCCAGACGTGGCACGGCGACCTCG	255
29-7	ATCGTTCACGTGTTACTGGTCGCTCTGATCACCGCGGCGTCTCCCTACGGCGCACGGCCAGACGTGGCACGGCGACCTCG	254
29-8	ATCGTTCACGTGTTACTGGTCGCTCTGATCACCGCGGCGTCTCTCACTACGGCGCACGGCCAGACGTGGCACGGCGACCTCG	252
29-9	ATCGTTCACGTGTTACTGGTCGCTCTGATCACCGCGGCGTCTCCCTACGGCGCACGGCCAGACGTGGCACGGCGACCTCG	252

WT	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGGCGCACGGCCAGACGTGGCACGGCGACCTCGC	279
34-1	TCGTTACAC-----	CTACGGCGCACGGCCAGACGTGGCACGGCGACCTCGC	218
34-2	TCGTTACAC-----	CTACKGCGSACGGCCMGACKTGGCACGGCGACCTCSC	218
34-3	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGGCGCACGGCCAGACGTGGCACGGCGACCTCGC	254
34-4	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGGCGCACGGCCAGACGTGGCACGGCGACCTCGC	252
34-5	TCGTTACAC-----	CTRCKGCGSACGGCCAGACKTGGCACGGCGACCTCGC	219
34-6	TCGTTACAC-----	CTACGGCGCACGGCCAGACGTGGCACGGCGACCTCGC	218
34-8	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGGCGCACGGCCAGACGTGGCACGGCGACCTCGC	254
34-9	TCGTTACAC-----	CTRCKGCGSRYGGCCMKAMKTGGRCGGCGACCTCSC	220
34-10	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGGCGCACGGCCAGACGTGGCACGGCGACCTCGC	254

WT	TAATGGCGATCGTTCACGTGTTACTGGTCGCTCTGATCACC	CGGCGCACGGCCAGACGTGGCACG	269
37-1	TAATGGCGATCGTTCACGTGTTACTGGTCGCTCTGATCACC	CGGCGCACGGCCAGACGTGGCACG	242
37-2	TAATGGCGATCGTTCACGTGTTACTGGTCGCTCTGATCACC	CGGCGCACGGCCAGACGTGGCACG	245
37-3	TAATGGCGATCGTTCACGTGTTACTGGTCGCTCTGATCACC	CGGCGCACGGCCAGACGTGGCACG	243
37-4	TAATGGCGATCGTTCACGTGTTACTGGTCGCTCTGATCACC	CGGCGCACGGCCAGACGTGGCACG	244
37-5	TAATGGCGATCGTTCACGTGTTACTGGTCGCTCTGATCACC	CGGCGCACGGCCAGACGTGGCACG	251
37-6	TAATGGCGATCGTTCACGTGTTACTGGTCGCTCTGATCACC	CGGCGCACGGCCAGACGTGGCACG	245
37-7	TAATGGCGATCGTTCACGTGTTACTGGTCGCTCTGATCACC	CGGCGCACGGCCAGACGTGGCACG	243
37-8	TAATGGCGATCGTTCACGTGTTACTGGTCGCTCTGATCACC	CGGCGCACGGCCAGACGTGGCACG	244
37-9	TAATGGCGATCGTTCACGTGTTACTGGTCGCTCTGATCACC	CGGCGCACGGCCAGACGTGGCACG	244
37-10	TAATGGCGATCGTTCACGTGTTACTGGTCGCTCTGATCACC	CGGCGCACGGCCAGACGTGGCACG	244

WT	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGGCGCACGGCCAGACGTGGCACGGCGACCTCGC	279
38-1	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGGCGCACGGCCAGACGTGGCACGGCGACCTCGC	255
38-3	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGGCGCACGGCCAGACGTGGCACGGCGACCTCGC	252
38-4	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGGCGCACGGCCAGACGTGGCACGGCGACCTCGC	253
38-5	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGGCGCACGGCCAGACGTGGCACGGCGACCTCGC	254
38-6	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGGCGCACGGCCAGACGTGGCACGGCGACCTCGC	252
38-7	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGGCGCACGGCCAGACGTGGCACGGCGACCTCGC	252
38-8	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGGCGCACGGCCAGACGTGGCACGGCGACCTCGC	252
38-9	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGGCGCACGGCCAGACGTGGCACGGCGACCTCGC	254
38-10	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGGCGCACGGCCAGACGTGGCACGGCGACCTCGC	252

WT	ATCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGGCGCACGGCCAGACGTGGCACGGCGACCTCG	278
41-1	ATCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGGCGCACGGCCAGACGTGGCACGGCGACCTCG	253
41-2	ATCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGGCGCACGGCCAGACGTGGCACGGCGACCTCG	253
41-3	ATCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGGCGCACGGCCAGACGTGGCACGGCGACCTCG	251
41-4	ATCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGGCGCACGGCCAGACGTGGCACGGCGACCTCG	255
41-5	ATCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGGCGCACGGCCAGACGTGGCACGGCGACCTCG	254
41-6	ATCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGGCGCACGGCCAGACGTGGCACGGCGACCTCG	257
41-7	ATCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGGCGCACGGCCAGACGTGGCACGGCGACCTCG	254
41-8	ATCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGGCGCACGGCCAGACGTGGCACGGCGACCTCG	253
41-9	ATCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGGCGCACGGCCAGACGTGGCACGGCGACCTCG	253
41-10	ATCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGGCGCACGGCCAGACGTGGCACGGCGACCTCG	253

WT	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGCGCGTCTC-CTACCGCGC	ACGGCCAGACGTGGCACGGCGACCTCGC	279
42-1	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGCGCGTCTCTCTACGGCGC	ACGGCCAGACGTGGCACGGCGACCTCGC	253
42-2	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGCGCGTCTCTCTACGGCGC	ACGGCCAGACGTGGCACGGCGACCTCGC	254
42-3	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGCGCGTCTCTACTACGGCGC	ACGGCCAGACGTGGCACGGCGACCTCGC	255
42-5	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGCGCGTCTCTCTACGGCGC	ACGGCCAGACGTGGCACGGCGACCTCGC	253
42-6	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGCGCGTCTCTACTACGGCGC	ACGGCCAGACGTGGCACGGCGACCTCGC	254
42-7	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGCGCGTCTCTCTACGGCGC	ACGGCCAGACGTGGCACGGCGACCTCGC	255
42-8	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGCGCGTCTC--TACGGCGC	ACGGCCAGACGTGGCACGGCGACCTCGC	251
42-9	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGCGCGTCTC--TACGGCGC	ACGGCCAGACGTGGCACGGCGACCTCGC	251
42-10	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGCGCGTCTC--TACGGCGC	ACGGCCAGACGTGGCACGGCGACCTCGC	252

WT	ATCGTTCACGTGTTACTGGTCGCTCTGATCACCGCGGCGTCTCC-TACCGGCGCACGGCCAGACGTGGCACGGCGACCTCG	278
54-10	ATCGTTCACGTGTTACTGGTCGCTCTGATCACCGCGGCGTC-----CGGCGCACGGCCAGACGTGGCACGGCGACCTCG	248
54-1	ATCGTTCACGTGTTACTGGTCGCTCTGATCACCGCGGCGTC-----CGGCGCACGGCCAGACGTGGCACGGCGACCTCG	246
54-2	ATCGTTCACGTGTTACTGGTCGCTCTGATCACCGCGGCGTCTC--TACGGCGCACGGCCAGACGTGGCACGGCGACCTCG	254
54-3	ATCGTTCACGTGTTACTGGTCGCTCTGATCACCGCGGCGTCTC--TACGGCGCACGGCCAGACGTGGCACGGCGACCTCG	251
54-4	ATCGTTCACGTGTTACTGGTCGCTCTGATCACCGCGGCGTCTC--TMSRCGCSACRGACRTASSTGGSMSACCTACTCTC	249
54-5	ATCGTTCACGTGTTACTGGTCGCTCTGATCACCGCGGCGTCTC--TACGGCGCACGGCCAGACGTGGCACGGCGACCTCG	254
54-6	ATCGTTCACGTGTTACTGGTCGCTCTGATCACCGCGGCGTC-----CGGCGCACGGCCAGACGTGGCACGGCGACCTCG	249
54-7	ATCGTTCACGTGTTACTGGTCGCTCTGATCACCGCGGCGTCTC--TACGGCGCACGGCCAGACGTGGCACGGCGACCTCG	254
54-8	ATCGTTCACGTGTTACTGGTCGCTCTGATCACCGCGGCGTCTC--TACGGCGCACGGCCAGACGTGGCACGGCGACCTCG	252
54-9	ATCGTTCACGTGTTACTGGTCGCTCTGATCACCGCGGCGTCTC--TACGGCGCACGGCCAGACGTGGCACGGCGACCTCG	255

WT	ATCGTTCACGTGTTACTGGTCGCTCTGATCACC	GATCACC	CGCGCGTCTC-CTAC	CGG	CGCACGGCCAGACGTGGCACGGCGACCTCG	278
70-10	ATCGTTCACGTGTTACTGGTCGCTCTGATCACC	CGCGCGCGTCTC--	TACGGCGCACGGCCAGACGTGGCACGGCGACCTCG			252
70-1	ATCGTTCACGTGTTACTGGTCGCTCTGATCACC	CGCGCGTCTCCCTACGGCGCACGGCCAGACGTGGCACGGCGACCTCG				252
70-2	ATCGTTCACGTGTTACTGGTCGCTCTGATCACC	CGCGCGTCTCCCTACGGCGCACGGCCAGACGTGGCACGGCGACCTCG				253
70-3	ATCGTTCACGTGTTACTGGTCGCTCTGATCACC	CGCGCGTCTC--	TACGGCGCACGGCCAGACGTGGCACGGCGACCTCG			250
70-4	ATCGTTCACGTGTTACTGGTCGCTCTGATCACC	CGCGCGTCTCCCTACGGCGCACGGCCAGACGTGGCACGGCGACCTCG				253
70-5	ATCGTTCACGTGTTACTGGTCGCTCTGATCACC	CGCGCGTCTCCCTACGGCGCACGGCCAGACGTGGCACGGCGACCTCG				252
70-6	ATCGTTCACGTGTTACTGGTCGCTCTGATCACC	CGCGCGTCTC--	TACGGCGCACGGCCAGACGTGGCACGGCGACCTCG			250
70-7	ATCGTTCACGTGTTACTGGTCGCTCTGATCACC	CGCGCGTCTC--	TACGGCGCACGGCCAGACGTGGCACGGCGACCTCG			253
70-8	ATCGTTCACGTGTTACTGGTCGCTCTGATCACC	CGCGCGTCTCCCTACGGCGCACGGCCAGACGTGGCACGGCGACCTCG				252
70-9	ATCGTTCACGTGTTACTGGTCGCTCTGATCACC	CGCGCGTCTC--	CTACGGCGCACGGCCAGACGTGGCACGGCGACCTCG			250
WT	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	GATCACC	CGCGCGTCTC-CTAC	CGG	CGCACGGCCAGACGTGGCACGGCGACCTCGC	279
78-10	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGCGCGTCTC--	TACGGCGCACGGCCAGACGTGGCACGGCGACCTCGC			248
78-1	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGCGCGTCTCACTACGGCGCACGGCCAGACGTGGCACGGCGACCTCGC				254
78-2	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGCGCGTCTCACTACGGCGCACGGCCAGACGTGGCACGGCGACCTCGC				253
78-3	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGCGCGTCTCACTACGGCGCACGGCCAGACGTGGCACGGCGACCTCGC				254
78-4	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGCGCGTCTC--	TACGGCGCACGGCCAGACGTGGCACGGCGACCTCGC			252
78-5	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGCGCGTCTC-----	GGCKACCKCGC			227
78-6	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGCGCGTCTC--	TACGGCGCACGGCCAGACGTGGCACGGCGACCTCGC			251
78-7	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGCGCGTCTC--	TACGGCGCACGGCCAGACGTGGCACGGCGACCTCGC			252
78-8	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGCGCGTCTCACTACGGCGCACGGCCAGACGTGGCACGGCGACCTCGC				249
78-9	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGCGCGTCTCACTACGGCGCACGGCCAGACGTGGCACGGCGACCTCGC				251
WT	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	GATCACC	CGCGCGTCTCC-TAC	GGC	GCACGGCCAGACGTGGCACGGCGACCTCGC	279
80-10	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGCGCGTCTC--	ACGGCGCACGGCCAGACGTGGCACGGCGACCTCGC			248
80-1	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGCGCGTCTCTCTACGGCGCACGGCCAGACGTGGCACGGCGACCTCGC				249
80-2	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGCGCGTCTCT--	ACGGCGCACGGCCAGACGTGGCACGGCGACCTCGC			246
80-3	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGCGCGTCTCT--	ACGGCGCACGGCCAGACGTGGCACGGCGACCTCGC			248
80-4	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGCGCGTCTCT--	ACGGCGCACGGCCAGACGTGGCACGGCGACCTCGC			248
80-5	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGCGCGTCTCT--	ACGGCGCACGGCCAGACGTGGCACGGCGACCTCGC			248
80-6	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGCGCGTCTCT--	ACGGCGCACGGCCAGACGTGGCACGGCGACCTCGC			248
80-7	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGCGCGTCTCT--	ACGGCGCACGGCCAGACGTGGCACGGCGACCTCGC			248
80-8	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGCGCGTCTCT--	ACGGCGCACGGCCAGACGTGGCACGGCGACCTCGC			248
80-9	TCGTTACAGTGTTACTGGTCGCTCTGATCACC	CGCGCGTCTCT--	ACGGCGCACGGCCAGACGTGGCACGGCGACCTCGC			248

Fig. S3 Sequence alignment of the *HvCKX1* gene fragments cloned from selected T₀ plants. Target sequence is marked in yellow and PAM motif in light blue; deletions are indicated by dashes.