

Supplemental Table 1: Oligonucleotides used in this study.

Purpose	Name	Description	Sequence 5'-3'
AC10 (TGGT1_292950) tagging	P1	AC10 gRNA-tagging sense	AAGTTgTAAGGGTGCAGAGTTGATGG
	P2	AC10 gRNA-tagging antisense	AAAACCATCAACTCTTGCACCCCTTAcA
	P3	AC10 5' HDR template	GCTGAAGACTCGCCTGATAAAGCTCACGAAGCAAACACGGGAAGTGGAGGACGGGAATT
	P4	AC10 3' HDR template	AGTCCACTGCTGCTCCTCGAGCAGTCTGGGAGATTTGGCGACGGCCAGTGAATTGTAATA
AC9 (TGGT1_246950) tagging	P5	AC9 gRNA-tagging sense	AAGTTATGTGTTCTCCTCAAATGTCAGG
	P6	AC9 gRNA-tagging antisense	AAAACCTGACATTTGAGGAACACATA
	P7	AC9 5' HDR template	GTCGGGGAACCGCAACCGAGTGAATATCCGCAGGGAATGGGAAGTGGAGGACGGGAATTC
	P8	AC9 3' HDR template	CTCGCAGCTGTGCGACTGAACTCTTGTGCGGAGAGAGCGACGGCCAGTGAATTGTAATA
ERK7 (TGGT1_233010) tagging	P9	ERK7 gRNA-tagging sense	AAGTTGCAAAAAGCAAAGATTCAGACG
	P10	ERK7 gRNA-tagging antisense	AAAACGTCTGAATCTTTGCTTTTGCA
	P11	ERK7 5' HDR template	TTCTCTTTTTTTTCAGTCTGCGTCCAAGACATACAAACAGCGGAAGTGGAGGACGGGAATT
	P12	ERK7 3' HDR template	GCTTTCTCCACCTTCGCTTTCCGGTGGAAAGTCTTTCGAGCGACGGCCAGTGAATTGTAATA
AC9 CC deletion construct	P13	AC9 CCdel mut fwd	AAGGAGCGCTTTCACACGCAG
	P14	AC9 CCdel mut rev	GGCTGCTGCAGCCGGGTC
AC10 promoter and full length complementation	P15	pUPRTKO vector fwd	GCGGCCGCCTACCCGTAC
	P16	pUPRTKO vector rev	ATGCATATGCGATGTCGAACCCCTCG
	P17	AC10pro-coding fwd	gttcgacatcgcatatgcatCCCCACTCGTTCTCCTCGATG
	P18	AC10pro-coding rev	tcgtacgggtaggcggccgcTCTCGCCTTTAATTGCAGTACG
AC10 CC1 deletion construct	P19	AC10CC1 Q5del fwd	CTGACGCATGCAAGTGGAC
	P20	AC10CC1 Q5del rev	GTCACCGCAGGTGGCATC
AC10 AC9-BD deletion construct	P21	AC10-AC9bd Q5del fwd	AAACTAGACGCTGAAGAC
	P22	AC10-AC9bd Q5del rev	GTTATCTTCTGCACTGCC
AC10 CC2 deletion construct	P23	AC10CC2 Q5del fwd	GAAAGTACAGGAAGTCGTG
	P24	AC10CC2 Q5del rev	ACAGACATTCGATCGTTG
AC10 N-term deletion construct	P25	AC10N-term Q5del fwd	GGAGACACGCTCCGCAT
	P26	AC10N-term Q5del rev	CATCGCAACTTCTCCTTTTTCG
AC10 C-term deletion construct	P27	AC10C-term Q5del fwd	GCGGCCGCCGGCAAACCT
	P28	AC10C-term Q5del rev	GGACTGAGCAGGTAGAAGTAAAGGGATAGAGG
AC10 N/C deletion construct	P29	pUPRTKO-AC10wt-vector-fwd	GCGGCCGCCGGCAAACCT
	P30	pUPRTKO-AC10wt-vector-rev	CATCGCAACTTCTCCTTTTTCGCAAAAAGATGTGTTCTTTC
	P31	AC10N-Cdel fwd	aaaaggaggaaagttgcatgCTTACGCTTAGATTTCG
	P32	AC10N-Cdel rev	ataggtttgccggcggccgcGGACTGAGCAGGTAGAAC
IMC12 pET28 construct for antibody production	P32	IMC12-pET28 fwd	TAATAACATTGGAAGTGGATAAC
	P33	IMC12-pET28 rev	TGCATTGGATTGGAAGTAC
	P34	IMC12-coding fwd	tgtactccaatccaatgcaGCAACCGAGTTTCGTCGTTTC
	P35	IMC12-coding rev	atccactccaatgttattaCTGGGGCATGGAGTCGAC
	Yeast-2-hybrid	P36	f pB27* ga/PhQC [58]
P37		r pB27 ga/PhQC [59]	TCCGGCCCCGAATTCACAG
P38		f pP6 3p ga/PhQC [57]	CTCGAGTAGCTAGTGTCTAGAG
P39		r pP6 5p ga/PhQC [57]	ATTCGTGGCCCCCTGCGG
P40		f AC9(D2) pb27-ga [58]	ctggaatcggggccggaGACGTCTCCGGTTCGAGGC
P41		r AC9(M452*) pb27-ga	gggcccagtgggcccttaCATTCCCTGCGGATATTCACCTCG
P42		f AC9(P70) blunt [61]	CCGGCTGCAGCAGCCATTC
P43		r AC9(Q113*) blunt [59]	tcaCTGCTCTCCAAGCTTTTGAAG
P44		r AC9(A157*) blunt [59]	tcaGGCAAAGCCTTGAATGTTGAGG
P45		f AC10(V2) pP6-ga [57]	gcccagggggccacgaat GTGACTGCAGTACCCAATCCTTC
P46		r AC10(N650*) pP6-ga [57]	ctagacactagctactcgag tca GTTATCTTCTGCACTGCCTTTGAC
P47		f AC10(E651) pP6-ga [59]	gcccagggggccacgaatGAAGACAGCACAGAGAGCCAG
P48		r AC10(T1300*) pP6-ga [59]	ctagacactagctactcgagtcaGGTGTACGCGTCGCTATTC
P49		f AC10(S1301) pP6-ga [57]	gcccagggggccacgaatTCCCCTTTTCAGCGGGGAG
P50		r AC10(R1979*) pP6-ga [57]	ctagacactagctactcgagTCATCTCGCCTTTAATTGCAGTAC
P51		f AC10(K684) blunt [59]	AAACTAGACGCTGAAGACCAGAAG
P52		r AC10(R683) blunt [58]	GCGTGGATCAAGCACCTTGG
P53		r AC10(S913*) blunt [58/62]	tcaGGACTGAGCAGGTAGAAGTCTG
P54		f AC10(W914) blunt [59/64]	TGGAATACTACGTCTGTGTCGCGC
P55		r AC10(C780 no*) [57/61]	ACAGACATTCGATCGTTGCTG
P56	f AC10(E831) [57/61]	GAAAGTACAGGAAGTCTGTCGG	
P57	r TgERK7(A358*) blunt [61]	tcaAGCTGTGCGGTGTCGCGC	
P58	f TgERK7(G359) blunt [59]	GGTTCTTCCGGCCGCCACC	