

A

	PAM	sgRNA
HeLa WT	ACCC	CTGCGGGCGGTGTGCGGACAGCCAGGCATG
	V R N R T L R A V C G Q P G M	
CHST14 Clone #3	GTCCGGA-----AGCCAGGCATG	
	V R	+K P G M
CHST14 Clone #4	GTCCGGAAC-----CGGACAGCCAGGCATG	
	V R N	fs
CHST14 Clone #4	GTCCGGAACAGGACCCTGC - GGCGGTGTGCGGACAGCCAGGCATG	
	V R N R T L	fs
CHST14 Clone #4	GTCCGGAACAGGACCCTGC +A GGGCGGTGTGCGGACAGCCAGGCA	
	V R N R T L	fs

B

	PAM	sgRNA
HeLa WT	CCCG	GCTGGAGCGTGTGGTGTTCCTG
	N R T L G H R L E R V V F L	
CHPF Clone #4	AACCGCACGCTGGGGC-----GTGTGGTGTTCCTG	
	N R T L G	12 bp deletion
CHPF Clone #4	AACCGCACGCTGGGGCACCGGC-----GCGTGTGGTGTTCCTG	
	N R T L G H R	fs
CHPF Clone #4	TGAACCGCACGCTGGGGCACCGG-----AGCGTGTGGTGTTCCTGA	
	N R T L G H R	fs

C

	PAM	sgRNA
HeLa WT	CCCT	TCGGTTACTCTACTTCACTGGGCAG
	T V A H H F P R L L Y F T G Q	
CHPF2 Clone #7	ACGGTGGCCCATCACTTCCCTC-----TACTTCACTGGGCAG	
	T V A H H F P	fs