

Table S9 Summary of strands to which sgRNAs bind, sgRNA activity, repair oligo strand homology, and repair oligo efficiency

Gene	sgRNA sequence ^a	Strand to which sgRNA binds ^b	sgRNA activity	Repair oligo	Repair oligo strand ^c	Repair oligo efficiency
<i>pha-1(e2123)</i>	atgaataacttgatga acat(cgg)	coding	Y	60, 80 and 200 mer <i>pha-1(ts)</i> repair (oligos 1899, 1986, 1987)	coding	High
				80mer <i>pha-1(ts)</i> repair (oligo 1985)	template	Weak
<i>nhr-23</i> PAM #1	agagctattcactgcagat(cgg)	template	Y	200mer <i>nhr-23::2xFLAG</i> (oligo 1831, 2 PAMs mut)	coding	High
				200mer <i>nhr-23::2xFLAG</i> (oligo 1832, 2 PAMs mut)	template	Weak
				193mer <i>nhr-23::3xFLAG</i> (oligos 2015 and 2085, 2 PAMs mut)	coding	Moderate
<i>nhr-23</i> PAM #2	agtgaatagctctttgtaga(ggg)	coding	Y	200mer <i>nhr-23::2xFLAG</i> (oligo 1831, 2 PAMs mut)	template	Moderate
<i>nhr-23</i> PAM #3	ggaagctttcagatgatgt(tgg)	coding	Y (moderate)	200mer <i>nhr-23::2xFLAG</i> (oligo 2089, 3 PAMs mut)	template	Moderate
<i>nhr-23</i> PAM #4	atgatgttgatcagacatt(cgg)	coding	N	200mer <i>nhr-23::2xFLAG</i> (oligo 2089, 3 PAMs mut)	template	n/a (sgRNA fail)
<i>nhr-25</i>	atacactgctgtccgtaca(tgg)	template	Y	175mer <i>nhr-25::2xFLAG</i> (oligo 1989; PAM mut)	template	Moderate
				193mer <i>nhr-25::3xFLAG</i> (oligo 2014; PAM mut)-unpurified	template	Weak
				193mer <i>nhr-25::3xFLAG</i> (oligo 2085; PAM mut)-PAGE purified	template	Weak
<i>smo-1</i>	gccgatgatgcagctcaagc(agg)	template	Y	175mer <i>2xFLAG::smo-1</i> (oligo 2105; PAM mutated)	template	High
<i>lig-4</i>	acgtcttcaacaagattcgg(cgg)	template	N	60mer <i>lig-4</i> stop/exon deletion (oligo 2099)	template	n/a (sgRNA fail)
	ttgacgtcttcaacaagatt(cgg)	template	N			

^asgRNA target sequence. The PAM sequence is provided in brackets.

^bstrand to which sgRNA binds. ie. for a target sequence with an “NGG” PAM in the coding sequence, the sgRNA would bind to the template strand

^cstrand from which oligo homology is derived