

Supplementary Table 4. Oligonucleotide designs used in this study.

Plasmid	Oligonucleotides	Sequence
pJP674	SaPIbov1-149cB NY-24mK	<u>CGCGGATCCGATCAGTACCTAAATATGCG</u> <u>CGGGGTACCCACTCGGTTATAACCTT</u>
pJP1928	dutNM1-1mS	<u>ACGCGTCGACATTATGACGGGTCAAGTTGTCTATAA</u> ATATGAGGAGGCACAGGAAAATGGATTATAAAGATC ACGATGGCGATTATAAAGATC
pJP1927		
pJP2040		
pJP2041	dutNM1-2m	<u>CACGATGGCGATTATAAAGATCACGATATCGATTAT</u> AAAGATGATGATGATAAAATGACTAACACACATTAACA ATTGATCAG
	dut-DI-2cB	<u>CGCGGATCCTTACACGTATCCTTTCTGC</u> (These plasmids were constructed using the same primers with different templates.)
pJP2042	dutNM1-1mS	<u>ACGCGTCGACATTATGACGGGTCAAGTTGTCTATAA</u> ATATGAGGAGGCACAGGAAAATGGATTATAAAGATC ACGATGGCGATTATAAAGATC
	dutNM1-2m	<u>CACGATGGCGATTATAAAGATCACGATATCGATTAT</u> AAAGATGATGATGATAAAATGACTAACACACATTAACA ATTGATCAG
	dutO46-4cB	<u>CGCGGATCCTTACACGTATCCTTTCTGC</u>
pJP2043	dutNM1-1mS	<u>ACGCGTCGACATTATGACGGGTCAAGTTGTCTATAA</u> ATATGAGGAGGCACAGGAAAATGGATTATAAAGATC ACGATGGCGATTATAAAGATC
	phi55-dut-22m	<u>CACGATGGCGATTATAAAGATCACGATATCGATTAT</u> AAAGATGATGATGATAAAATGACTAACACACATTAACA ATTGATC
	dut-DI-2cB	<u>CGCGGATCCTTACACGTATCCTTTCTGC</u>
pJP2044	dutNM1-1mS	<u>ACGCGTCGACATTATGACGGGTCAAGTTGTCTATAA</u> ATATGAGGAGGCACAGGAAAATGGATTATAAAGATC ACGATGGCGATTATAAAGATC

	DI-dut-4c DI-dut-3m dut-DI-2cB	GATTGCAATACTCAGCCAAATAATAAGATATCCG CCAATTCATCTAACTG CAGTTAGATGAATTGGCGGATATCTTATTATTTGGA CTGAGTATTGCAAATC <u>CGCGGATCCTTACACGTATCCTTTCTGC</u>
pJP2045 pJP2046 pJP2048 pJP2049	DI-dut-29mB dutNM1-19cS	<u>CGCGGATCCATGACTAACACATTAACAACGTACAG</u> <u>ACGCGTCGACTTACACGTATCCTTTCTGC</u> (These plasmids were constructed using the same primers with different templates.)
pJP2047	dut-DII-4mB dut NM1-19cS	<u>CGCGGATCCATGACTAACACGTTAACATTGATCAG</u> <u>ACGCGTCGACTTACACGTATCCTTTCTGC</u>

Sequences recognized by the restriction enzymes used in cloning are underlined.

Probe	Oligonucleotides	Sequence
SaPIbov1/	SaPIbov1-112mE	CCGGAATTCAATTGCTGAGGCAAAACTTC
SaPIbov5	SaPIbov1-113cB	<u>CGCGGATCCTAATTCTCCACGTCTAAAGC</u>