

Supplementary information, Table S4. Efficiencies of TALENs-mediated indels with novel RVDs.

Targeted Gene	Type of TALENs	TALEN ^L	TALEN ^R	Mean Indels (%) ± s.d. (n = 3)
<i>LRP1</i> ^a	TALEN _{NN}	NI NI NN NI HD NG NG NN HD NI NN HD HD HD HD	NI HD NI NN NN NG NG NI NG NG NG NN NI NG HD	77.1 ± 4.3
	TALEN _{NH}	NI NI NH NI HD NG NG NH HD NI NH HD HD HD HD	NI HD NI NH NH NG NG NI NG NG NG NH NI NG HD	50.7 ± 4.9
	TALEN _{KN}	NI NI KN NI HD NG NG KN HD NI KN HD HD HD HD	NI HD NI KN KN NG NG NI NG NG NG KN NI NG HD	78.1 ± 3.4
<i>DKK1</i> ^b	TALEN _{NN}	NG HD HD NI NI HD NN HD NG NI NG HD NI NI NN	NN HD HD HD HD NN HD NI NN HD NN HD HD NN HD	54.7 ± 4.8
	TALEN _{NH}	NG HD HD NI NI HD NH HD NG NI NG HD NI NI NH	NH HD HD HD HD NH HD NI NH HD NH HD HD NH HD	39.4 ± 7.8
	TALEN _{KN}	NG HD HD NI NI HD KN HD NG NI NG HD NI NI KN	KN HD HD HD HD KN HD NI KN HD KN HD HD KN HD	49.9 ± 2.7
<i>LRP1</i> ^a	TALEN _{NG}	NI NI NN NI HD NG NG NN HD NI NN HD HD HD HD	NI HD NI NN NN NG NG NI NG NG NG NN NI NG HD	77.1 ± 4.3
	TALEN _{RG}	NI NI NN NI HD RG RG NN HD NI NN HD HD HD HD	NI HD NI NN NN RG RG NI RG RG RG NN NI RG HD	40.2 ± 10.3
<i>ATG5</i> ^c	TALEN _{NG}	NN NG NG NG HD NI HD NN HD NG NI NG NI NG HD	NI NG NN NN NG NG HD NG NN HD NG NG HD HD HD	11.5 ± 0.6
	TALEN _{RG}	NN RG RG RG HD NI HD NN HD RG NI RG NI RG HD	NI RG NN NN RG RG HD RG NN HD RG RG HD HD HD	6.5 ± 0.5

^a Sequence for TALENs targeting is 5'-TAAGACTTGCAGCCCCAAGCAGTTGCCTGCAGAGATCAAATAACCTGTA-3', and TALEN^L and TALEN^R targeted regions are labeled in grey shades. Sequences of primers used to amplify the TALENs targeting region for the assessment of indels are: 5'-AGCCTAGAGGACTTGGAGGG-3' and 5'-ACCTGGGCCAATCATCAAG-3'.

^b Sequence for TALENs targeting is 5'-TTCCAACGCTATCAAGAACCTGCCCCACCGCTGGCGCGCTGCGGGCA-3', and TALEN^L and TALEN^R targeted regions are labeled in grey shades. Sequences of primers used to amplify the TALENs targeting region for the assessment of indels are: 5'-GACCCAGGCTTGCAAAGTGA-3' and 5'-CAGGCGAGACAGATTGCAC-3'.

^c Sequence for TALENs targeting is 5'-TGTTTCACGCTATATCAGGATGAGATAACTGAAAGGGAAGCAGAACATA-3', and TALEN^L and TALEN^R targeted regions are labeled in grey shades. Sequences of primers used to amplify the TALENs targeting region for the assessment of indels are: 5'-TAGCAGGTTCATTCATCGTTGCAAGGA-3' and 5'-ATGTAAGGAAAACAAGTCCAGAACGC-3'.