Supplementary information, Table S5.

RVDs targeting multiple bases.

RVDs targeting two bases

Category	RVDs	A	T	C	G
A/T	SG	+	+	-	-
A/C	HC	++	-	++	-
	KC	++	-	++	-
	NC	+	-	+	-
	KS	++	-	+	-
A/G	HN	++	-	-	++++
	NN	++	-	-	++++
T/C	HA	-	+	+	-
	KA	-	++	+	-
	KP	-	++	+	-
	FS	-	+	+	-
T/G	KF	-	+	-	+
	SN	-	+	-	+
	RQ	-	+	-	++++
	GR	-	+	-	+
	KR	-	+	-	+++
C/G	HQ	-	-	+	+++
	KQ	-	-	+	++
	QR	-	-	+	++
	YR	-	-	+	++++

RVDs targeting three bases

Category	RVDs	A	T	C	G
A/T/C	RL	+	++	+	-
	MS	+	+	+	-
	TT	+	+	+	-
A/T/G	TC	++	+	-	+
	MH	+	+	-	+
	LR	+	+	-	++
	SS	+	+	-	+
A/C/G	RC	+	-	++	+
	CR	+	-	+	+++
	HS	++	-	++	++++
	NS	++++	-	+	++++
	HT	++	-	+	+
	KT	+	-	+	++
	NT	++++	-	+	++++
	HV	++	-	+	+
	KV	++++	-	+++	+++
	NV	++	-	+	+
T/C/G	FQ	-	+	+	+
	NA	-	++	+	+
	RN	-	+	+	++++

RVDs targeting four bases

Category	RVDs	A	T	C	G
A/T/C/G	RH	+	+	+	+++
	LQ	+	++	+	+
	VR	+	+	+	++
	CS	+	+	+	+
	RT	+	+	+	++
	RV	+++	++	+++	++

Note:

The ranges of fold induction of EGFP reporter for RVDs in TALE-$(XX')_3$ are indicated as follows:

-	< 6
+	6 - 12
++	12 - 18
+++	18 - 24
++++	≥ 24

SUPPLEMENTARY REFERENCES

1. Zhang, F. et al. Efficient construction of sequence-specific TAL effectors for modulating mammalian transcription. *Nature biotechnology* **29**, 149-153 (2011).
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3. Boussif, O. et al. A versatile vector for gene and oligonucleotide transfer into cells in culture and in vivo: polyethylenimine. *Proc Natl Acad Sci U S A* **92**, 7297-7301 (1995).
4. Mussolino, C. et al. A novel TALE nuclease scaffold enables high genome editing activity in combination with low toxicity. *Nucleic acids research* (2011).