

Supplementary information, Table S2. Sequences of amino acid diresidues in RVDlibraries (TALE-(XX')₃, TALE-(XX')₆ and TALE-(XX')₁₂).

Amino Acid (XX')	DNA (NNNNNN)	Amino Acid (XX')	DNA (NNNNNN)	Amino Acid (XX')	DNA (NNNNNN)	Amino Acid (XX')	DNA (NNNNNN)	Amino Acid (XX')	DNA (NNNNNN)
AA	gctgcg	CA	tgcgcc	DA	gacgct	EA	gaggcg	FA	ttgccc
AC	gcctgc	CC	tgctgc	DC	gattgc	EC	gaatgt	FC	ttctgc
AD	gccgac	CD	tgcgac	DD	gacgac	ED	gaagac	FD	ttcgac
AE	gccgaa	CE	tgcgag	DE	gacgaa	EE	gaggag	FE	ttcgag
AF	gccttc	CF	tgcttt	DF	gatttc	EF	gagttc	FF	ttcttc
AG	gctggt	CG	tgcggt	DG	gatggc	EG	gagggc	FG	ttcgga
AH	gcccac	CH	tgccat	DH	gatcac	EH	gagcac	FH	tttcat
AI	gccatc	CI	tgtatc	DI	gacatt	EI	gaaatc	FI	tttatt
AK	gccaag	CK	tgcaag	DK	gacaag	EK	gaaaag	FK	ttcaag
AL	gcccta	CL	tgcttg	DL	gacctc	EL	gaactc	FL	ttcttg
AM	gccatg	CM	tgtatg	DM	gatatg	EM	gaaatg	FM	tttatg
AN	gccaac	CN	tgcaac	DN	gacaac	EN	gagaac	FN	ttcaat
AP	gcccc	CP	tgccca	DP	gacccc	EP	gagcct	FP	ttcccc
AQ	gcccga	CQ	tgccag	DQ	gaccga	EQ	gagcag	FQ	ttccga
AR	gctcgt	CR	tgccgg	DR	gatcgt	ER	gaacga	FR	ttccgg
AS	gcatcg	CS	tgctcg	DS	gactct	ES	gaatcc	FS	ttctct
AT	gccacc	CT	tgactc	DT	gacact	ET	gaaacc	FT	ttcacc
AV	gctgtc	CV	tgtgtc	DV	gacggt	EV	gaggtc	FV	ttcgtg
AW	gcgtgg	CW	tgttgg	DW	gactgg	EW	gaatgg	FW	ttctgg
AY	gcgtat	CY	tgctat	DY	gactat	EY	gaatac	FY	ttctat
GA	ggggca	HA	cacgcc	IA	atcgcg	KA	aaggcc	LA	ttggct
GC	ggctgc	HC	cactgc	IC	atctgt	KC	aagtgc	LC	ctatgc
GD	ggcgac	HD	cacgac	ID	atcgac	KD	aaggat	LD	ctcgac
GE	ggcgag	HE	cacgag	IE	atcgaa	KE	aaggaa	LE	ttggag
GF	gggttc	HF	cacttc	IF	atcttt	KF	aagttt	LF	ctgttc
GG	ggtggc	HG	cacggc	IG	atcggc	KG	aagggc	LG	ctcggc
GH	ggccac	HH	caccac	IH	atccat	KH	aaacat	LH	cttcac
GI	ggcatc	HI	cacatc	II	attatc	KI	aagatc	LI	ctcatt
GK	ggcaag	HK	cacaag	IK	attaag	KK	aaaaag	LK	ctcaaa
GL	ggcctc	HL	cacctg	IL	atcttg	KL	aagctc	LL	cttctc
GM	ggtatg	HM	cacatg	IM	atcatg	KM	aagatg	LM	ctcatg
GN	ggcaac	HN	cacaac	IN	atcaac	KN	aagaac	LN	ctcaat
GP	ggtccc	HP	cacccc	IP	atcccc	KP	aagcct	LP	cttccc
GQ	ggccag	HQ	caccag	IQ	atccag	KQ	aagcag	LQ	ctccag
GR	ggtcgc	HR	cacaga	IR	atccgt	KR	aaacgc	LR	ttgcgc
GS	ggctcc	HS	cacagc	IS	atcagc	KS	aagtct	LS	ctctct
GT	ggcacc	HT	cacacc	IT	ataacc	KT	aagacc	LT	ttgact
GV	ggcgtc	HV	cacgtg	IV	atcgtc	KV	aaggtt	LV	ctgggt
GW	ggttgg	HW	cactgg	IW	atctgg	KW	aagtgg	LW	atttgg
GY	ggctac	HY	cactac	IY	atctat	KY	aagtac	LY	ctctac

Amino Acid (XX')	DNA (NNNNNN)	Amino Acid (XX')	DNA (NNNNNN)	Amino Acid (XX')	DNA (NNNNNN)	Amino Acid (XX')	DNA (NNNNNN)	Amino Acid (XX')	DNA (NNNNNN)
MA	atggcg	NA	aacgcc	PA	ccagcc	QA	caggct	RA	agagct
MC	atgtgc	NC	aactgc	PC	ccctgt	QC	cagtgc	RC	cgctgc
MD	atggat	ND	aacgac	PD	cctgac	QD	caggac	RD	agggac
ME	atggaa	NE	aacgag	PE	ccagaa	QE	caggag	RE	agagag
MF	atgttt	NF	aacttc	PF	ccattt	QF	caattt	RF	aggttt
MG	atgggc	NG	aacggc	PG	ccgggg	QG	cagggt	RG	cgcggc
MH	atgcac	NH	aaccac	PH	ccgcat	QH	caacat	RH	agacac
MI	atgata	NI	aacatc	PI	ccaatc	QI	cagatc	RI	agaatc
MK	atgaag	NK	aacaag	PK	cctaag	QK	cagaag	RK	cgcaag
ML	atgtta	NL	aacctg	PL	ccgctc	QL	caactt	RL	cgctc
MM	atgatg	NM	aacatg	PM	cccatg	QM	cagatg	RM	agaatg
MN	atgaac	NN	aacaac	PN	cctaac	QN	cagaac	RN	cgtaac
MP	atgccc	NP	aacccc	PP	ccccc	QP	caacct	RP	cgccc
MQ	atgcag	NQ	aaccag	PQ	ccgcag	QQ	cagcaa	RQ	agacag
MR	atgcgg	NR	aacaga	PR	cctcgt	QR	caacgt	RR	cgcgga
MS	atgtcc	NS	aacagc	PS	ccttcg	QS	caatcc	RS	cgctcc
MT	atgact	NT	aacacc	PT	ccgacg	QT	cagact	RT	cgcacc
MV	atggtc	NV	aacgtg	PV	cctgtg	QV	cagggt	RV	cggtt
MW	atgtgg	NW	aactgg	PW	ccgtgg	QW	cagtgg	RW	cgctgg
MY	atgtat	NY	aactac	PY	ccatac	QY	cagtat	RY	agatac
SA	tccgcc	TA	actgcc	VA	gtcgcc	WA	tgggcc	YA	tacgcg
SC	tcctgc	TC	acctgc	VC	gtatgc	WC	tgggtc	YC	tactgt
SD	tcggat	TD	accgac	VD	gtggac	WD	tgggat	YD	tacgat
SE	tccgaa	TE	accgag	VE	gttgag	WE	tgggaa	YE	tatgaa
SF	agcttt	TF	acgttc	VF	gtgttc	WF	tggttt	YF	tacttc
SG	tcgggg	TG	actggc	VG	gtcgga	WG	tggggc	YG	tatggc
SH	tcacac	TH	aaccac	VH	gtgcat	WH	tggcat	YH	tatcac
SI	agcatc	TI	accatc	VI	gtcatt	WI	tggatc	YI	tacatt
SK	tccaag	TK	accaag	VK	gtcaag	WK	tggaag	YK	tacaag
SL	tcctc	TL	actctc	VL	gtcttg	WL	tggttg	YL	tactta
SM	agcatg	TM	accatg	VM	gtcatg	WM	tggatg	YM	tatatg
SN	tccaac	TN	accaac	VN	gtgaac	WN	tggaac	YN	tacaac
SP	tccccg	TP	acacca	VP	gtccct	WP	tggccg	YP	tatccg
SQ	tcgcaa	TQ	accaa	VQ	gtgcag	WQ	tggcag	YQ	taccag
SR	tcgagg	TR	accgc	VR	gtgcgg	WR	tggcgc	YR	tatcga
SS	tctagc	TS	acatcc	VS	gtgtcc	WS	tggtcg	YS	tattcc
ST	tctacc	TT	actacg	VT	gtgacc	WT	tggact	YT	tatact
SV	tccgtg	TV	acggtc	VV	gttgtt	WV	tgggtt	YV	tacgtt
SW	tcctgg	TW	acttgg	VW	gtgtgg	WW	tggtag	YW	tactgg
SY	agttac	TY	acttac	VY	gtctac	WY	tggtag	YY	tactat