

Table S10. Mutation spectrum in the category "*can1* - DSB-*tel*; UV, 45 J/m²"

Mutant #	Position in <i>CAN1</i> (coding strand)	Distance between adjacent mutations	WT base	Mutant base	Del/Add (-/+ # of nt)	WT sequence context	Mutant sequence context	Type of mutation	# of mutations in mutant
T55	1632		C	T		TCTTATTTcAATGCATA	TCTTATTTtAATGCATA	sub	1
T56	1185		C	A		AATATTTTAcGTTGGTTC	AATATTTTaaGTTGGTTC	sub	1
T58	977		T	C		AGTTGTTTtCCGTATCT	AGTTGTTTcCCGTATCT	sub	1
T59	577		C	T		AAGTCATTcAATTTTGG	AAGTCATTtAATTTTGG	sub	1
T49	519		T	A		TACATGTAtTGGTTTTC	TACATGTaaTGGTTTTC	sub	2
T49	1071	552	T	A		TCCTACGTtTCTACTTC	TCCTACGTaTCTACTTC	sub	
T50	900		T	C		CAAGGTACTcGAAC TAGT	CAAGGTACcGAAC TAGT	sub	2
T50	1211	311	T	C		ATTGGTCTcATCAAAGA	ATTGGTCCaATCAAAGA	sub	
T51	419		T	A		GCAGTCCTtGGGTGAAA	GCAGTCCTaGGGTGAAA	sub	2
T51	540	121	T	C		GCAATCACtTTTGCCCTG	GCAATCACcTTTGCCCTG	sub	
T52	1029		T	G		CGCCGACAtAGAGGAGA	CGCCGACaGAGAGGAGA	sub	2
T52	1442	413	C	A		CATTcATCcCTGTTACA	CATTcATCaCTGTTACA	sub	
T53	264		T	C		AGAGAGCTtAAGCAAAG	AGAGAGCTcAAGCAAAG	sub	2
T53	553	289	C	T		CCCTGGAAcTTAGTGTA	CCCTGGAAtTTAGTGTA	sub	
T54	1163		C	T		CATTATTTcTGCCGCAA	CATTATTTtTGCCGCAA	sub	2
T54	1202	39	T	C		CCGTATTTtATTGGTTC	CCGTATTTcATTGGTTC	sub	
T57	851		T	A		GAGGTTCTtAGGTGGG	GAGGTTCTaAGGTGGG	sub	2
T57	1455	604	C	T		TACATCCTcTTTCACAG	TACATCCTtTTTCACAG	sub	
T60	402		T	A		TTGGCATAtTCTGTCAC	TTGGCATAaTCTGTCAC	sub	2
T60	1058	656	C	T		AACACAATcTACTTCCT	AACACAATtTACTTCCT	sub	
T61	99		C	T		CAAACACAcCACAGACG	CAAACACAtCACAGACG	sub	2
T61	937	838	CC	AT		CTGCAAAACccCAGAAAAAT	CTGCAAAACatCAGAAAAAT	compl	
T62	862		-	T	+1	TTGGGTTT-CCTCTTTG	TTGGGTTTtCCTCTTTG	indel	2
T62	1551	689	T	C		TTcACGGCtTTTGCACC	TTcACGGCcTTTGCACC	sub	
T63	836		A	T		GGATAAAAaCGAAGGGA	GGATAAAAtCGAAGGGA	sub	2
T63	1179	343	T	A		AATTCAAAtATTTACGT	AATTCAAaaATTTACGT	sub	
T64	530		G	T		GT'TTCTTgGGCAATCA	GT'TTCTTtGGCAATCA	sub	2
T64	1025	495	-	T	+1	GGACTTTT-AGTTCcAT	GGACTTTTtAGTTCcAT	indel	

See footnotes to Table S4

The *CAN1* coding strand corresponds to unresected strand in the DSB-*tel* construct