

Wild-type *SpCas9* junctions (at the *SUP4* locus)

Parental allele GGAATG CTG₉₀ CTGGGGGGATCACAGACCAT
#2 GGAATG CTG₂₁ ATGCTGGGGGGATCACAGACCAT
#23 GGAATG CTG₈₂ (C)TGCTGGGGGGATCACAGACCAT
#11 GGAATG CTG₅ ----(Δ64 bp)----ATCGGGCGTTCGAC
#44 GGAATG CT----(Δ279 bp)----ACAGACCAT
#46 GGAATG CTG₅ C----(Δ260 bp)----ATCACAGACCAT
#17 CCTTGTAGCCGGGA----(Δ281 bp)----TCACAGACCATTTC
#19 TCCTTGTAGCCGGG----(Δ312 bp)----CTGAGGCCGACCTG
#31 TCGTCCTTGTAGCC----(Δ295 bp)----ATTTCTTTCTTTTCG
#4 #7 (δ20)TTTGTACTCATTATCTATTACATTATCAATCCTT----(Δ305 bp)----TCATTATCTATTACATTATCAATCCTT GCATTTTCAGCTTCC(δ18)
#39 (δ20)TAATATTAGGTATACAGAATATACTAG----(Δ2837 bp)----AGGTATACAGAATATACTAG AAGTTCTCCTCGAG(δ18)

rad52Δ junctions

Parental allele GGAATG CTG₈₀ CTGGGGGGATCACAGACCAT
#B10 #B12 GGAATG CTG CTGGGGGGATCACAGACCAT
#A3 GGAATG CTG₃ CTGGGGGGATCACAGACCAT
#C8 GGAATG CTG₄ CTGGGGGGATCACAGACCAT
#C5 GGAATG CTG₅ CTGGGGGGATCACAGACCAT
#H4 GGAATG CTG₈ CTG----(Δ262 bp)----CTGCAGCGAA
#A1 GGAATG C------(Δ255 bp)-----CCAT
#A2 GTCGTCCTTG----(Δ291 bp)---TGAGGCCGAC
#A11 AAGCTGGTCA----(Δ579 bp)---CGACCTGCAG
#B6 GGAATG------(Δ252 bp)-----CAGACCAT
#B7 GGAATG CTG₃ CT-(Δ276 bp)-ACCTGCAGCG
#C9 GTCGTCCTTG----(Δ305 bp)---AGCGAAATCT
#C4 (δ20)ATCCCACCAATTATC-(Δ3021 bp)-CAATTATCAAAAAAT(δ18)
#C7 (δ20)TTATCTCAAAATTAC-(Δ3029 bp)-AAAATTACCTTTCTT (δ18)

sae2Δ junctions

Normal allele GGAATG CTG₇₇ CTGGGGGGATCACACA
#A8 #D2 #D12 GGAATG CTG₃ CTGGGGGGATCACACA
#D3 GGAATG CTG₇₂ (C)TGCTGGGGGGATCACACA
#A2 GGAATG CTG₇₇ CGCTGGGGGGATCACACA
#A4 GGAATG CTG₇₇ C(T)GGGGGGGGATCACACA
#A5 GGAATG CTG₇₇ CCTGCTGGGGGGATCACACA
#A6 GGAATG CTG₇₇ CTGCGCCTGGGGGGATCACACA
#A11 GGAATG CTG₇₇ CTTGGTGGGGGGATCACACA
#A12 GGAATG CTG₇₇ CGC(T)GGGGGGATCACACA
#B5 GGAATG CTG₇₇ CTGCTGCGCTGGGGGGATCACACA
#E2 GGAATG CTG₁₈ CCTGCTGGGGGGATCACACA
#B2 (δ20)TGTACTCATTATCTATTA ----(Δ3027 bp)-----TCATTATCTATTACATTAT(δ18)

dnl4Δ junctions

Parental allele GGAATG CTG₈₀ CTGGGGGGATCACA
#A9 (Δ20)AAGACTTAATATTAGGTATACAGAATATACTAGGAG----(Δ3029 bp)----CAGGTATACAGAATATACTAGAGTTCTCCTCGA(Δ18)
#B2 (Δ20)TTTCATTAGACTTTTGTACTGTT----(Δ3050 bp)----ACAGTTCCTCGTATCTTATGTCATCG(Δ18)
#B7 #B9 #D3 (Δ20)ATGTTTGGAAAGAAAAGTGAATTTT----(Δ3052 bp)----GGTGAATTTTGGATAATTGGTGGG(Δ18)
#B12 (Δ20)GTAAAGACTTAATATTAGGTATACAGAATATACTAG----(Δ3053 bp)----AGGTATACAGAATATACTAGAAGTTCTCCTCGAGGA(Δ18)
#C10 #C12 (Δ20)CTTATGTTATCTTCTTACACAGTAT----(Δ3049 bp)----ACACCGTATATGATAATATATTGGT(Δ18)
#E8 #E9 etc. (Δ20)TGATACTTTGTCACTCATTATCCTATTACATTATCAA----(Δ3051 bp)----TCATTATCCTATTACATTATCAATCCTTGCATTTTCAG(Δ18)
#C9 #E11 (Δ20)TGTTGGTAAAGACTTAATATTAGGTATACAGAATATACTAG----(Δ3054 bp)----TAATATCAGGTATACAGAATATACTAGAAGTTCTCCTCGAG (Δ20)
#B5 (Δ20)AAAGGTGAATTTTTTGGATAATTG----(Δ2798 bp) +153 bp Tyδ19 chr.10----ATCCTATTACATTATCAATCCTT(Δ19)
#D11 (Δ20)TTGCTGGGATTCCATTGTTG----(Δ3147 bp) +94 bp Ty1δ21 chr.7----ATTACGATTATTCCTCATTTC(Δ18)

sae2Δ dnl4Δ junctions

Parental allele GGAATG CTG₈₁ CTGGGGGGATCACA
#B11 GGAATG CTG₈₁ CTGGGGGGATCACA
#B8 #C12 etc. GGAATG CTG₈₀ CTGGGGGGATCACA
#C9 #D1 etc. GGAATG CTG₇₉ CTGGGGGGATCACA
#A2 GGAATG CTG₃ CTGGGGGGATCACA
#A3 (Δ20)GTTTCTCAATCCTTATGT----(Δ3050 bp)----CTTATGTCATCGTCTAACACCGTATATGA(Δ18)
#A8 (Δ20)GTTTCTCAATCCTTATGTATC----(Δ3050 bp)----CTTATGTCATCGTCTAACACCGTAT(Δ18)
#C4 #C5 etc. (Δ20)ATTACATTATCAATCCTTGCATTT----(Δ3051 bp)----CAATCCTTGCATTTTCAGCTTCCTC(Δ18)
#B6 (Δ20)GTTTGGAAAGAAAGGTGAATTTT----(Δ3052 bp)----AAAGGTGAATTTTGGATAATT(Δ18)
#B7 #C3 (Δ20)ATATTAGGTATACAGAATATACTAG----(Δ3053 bp)----AGGTATACAGAATATACTAGAAGTT(Δ18)
#A4 (Δ20)GTATACAGAATATACTAG----(Δ3226 bp) +176 bp Tyδ12 chr.5----TCTAACACCGTATATGAT(Δ19)
#C8 (Δ20)TTCTTTGATA--(Δ25 bp) +23 bp Tyδ16 chr.10--TTATCAATCCTTGCATTT----(Δ3033 bp)----TTATCAATCCTTGCATTTTCAGCTTCCTC(Δ18)

rad50Δ junctions

Normal allele GGAATG CTG₈₀ CTGGGGGGATCACA
#A3 GGAATG CTG_{<10} CTGGGGGGATCACA
#B2 GGAATG CTG₄₅ CTGGGGGGATCACA
#B4 GGAATG CTG₁₂₀ CTGCTGGGGGGATCACA
#B5 GGAATG CTG₁₁₅ CTGCTGGGGGGATCACA
#C1 GGAATG CTG₉₀ CTGGGGGGATCACA

#A2, #A4, #A6, #A7, #A8 (Δ20)TCAATCCTTGCATTTTTAGC------(Δ3050 bp)-----AGCTTCTCTAACTTCGATG(Δ18)
#A9, #A10, #A11, #A12 (Δ20)AGAATATACTAGGAGTTCTC------(Δ3053 bp)-----AGTTCTCCTCGAGGATATA(Δ18)
#B1, #B3, #B12 (Δ20)AGAATATACTAGGAGTTCTC------(Δ3053 bp)-----AGTTCTCCTCGAGGATATAG(Δ18)
#B6, #B7, #B8, #B11 (Δ20)ACTCATTATCCTATTACATTATCAA------(Δ3029 bp)-----CATTATCCTATTACATTATCAATCC(Δ18)
#B9 (Δ20)TATACAGAATATACTAGGAGTTCTC------(Δ3053 bp)-----AGAATATACTAGAGTTCTCCTCGA(Δ18)
#C2, #C3, #C4, #C5 (Δ20)AGAATATACTAGGAGTTCTC------(Δ3030 bp)-----AGTTCTCCTCGAGGATATAGG(Δ18)
#C6 (Δ20)TATCCTATTACATTATCAATCCTTGC------(Δ3028 bp)-----TATTACATTATCAATCCTTGCATTTTC(Δ18)
#C8, #D2, #D3, #D5, #D7, #D9 (Δ20)CTCATGTATCCTATTACATTATCAATCCTT------(Δ3030 bp)-----TATCCTATTACATTATCAATCCTTGCATT(Δ18)
#C9, #C10, #C11, #C12, #D6, #D8, #D10, #D11, #D12 (Tyδ4 chr.10)TCATAATTAATAAT--170 bp--ATTTTGGAGATAATTG--ATTTTGGAGATAATTGGTGGG (Δ18)

Wild-type eSpCas9 junctions (guideRNA #1)

Parental allele GGAATG CTG₇₈ CTGGGGGGATCACAGACCATTTCTTT
C4# TCGTCCTTG TAGCCGGG----(Δ280 bp)----GGGATCACAGACCATT
D12# GGAATG CTG₆C----- (Δ2541 bp)-----GATGGAAATCATTATTGTAGT(δ18)
B4# B5# (δ20)TATCTTCTTACACAGTAT----(Δ3050 bp)----GTATATGATAATATATTG(δ18)
A3# A5# etc. (δ20)ACTTTGTCACTCATTATCCTATTACATTATCAA----(Δ3051 bp)----TCATTATCCTATTACATTATCAATCCTTGCATTT(δ18)
B1# (δ20)TTCCATTGTTGGTAAAGACT(A)TAATAT----(Δ3053 bp)----ATTGTTGGTAAAGGCTATAATATCAGGTATACAGAAT(δ18)

Wild-type eSpCas9 junctions (guideRNA #2)

Parental allele GGAATG CTG₇₈ CTGGGGGGATCACAGACCATTTCTTT
#A8 GGAATG CTG₁₇ TTG CTG₅ CTGGGGGGATCACAGACCA
#A12 GGAATG CTG₆₆ -----G CTGGGGGGATCACAGACCA
#C4 GGAATG CTG₂₅ (C)TTTGGGGGGATCACAGACCATTTCTTT
#A3 GGAATG CTG₁₃ CTG----- (Δ238 bp)-----GATCACA
#A4 TAGCACCACGCC----(Δ1342 bp)----CCCCGGGAGAT
#A6 TAATTTGTCAGT----(Δ604 bp)----CTTGCAAGTTGA
#B6 TCTCGGTAGCCA----(Δ401 bp)----CGTTCGACTCGC
#B9 (δ20)ATAATATAATAGTAACATGAA----(Δ2404 bp)----TGTTGGAATAAAAATCAACTATCATC(δ19)
#A2 #A5 etc. (δ20)TATCAATCCTTGCAATTT----(Δ3017 bp)----TATCAATCCTTGCAATTT(δ18)
#C9 (δ20)ATTGTTGGTAAAG----(Δ3039 bp)----ATTGTTGGTAAAG(δ18)
#E11 (δ20)ACTCATTATCCTATTACATTATCAATCCTTGCAATTT----(Δ3051 bp)----TCCTTGCAATTTAGCTTCCTCTAAC(δ18)
#D10 #E3 #F7 (δ20)TTAATATTAGGTATACAGAATATACTAG----(Δ3053 bp)----AGGTATACAGAATATACTAGAAGTTCTCCTCGAG(δ18)
#F8 (δ20) TTCCTTCTTTGATA----(Δ3112 bp)+59 bp Tyδ16 chr.10-----ATGACAGTTCCTCG(δ18)

Wild-type SpCas9 junctions (at the ARG2 locus)

Parental allele GGAATG CTG₆₀ CTGGGGGGATCACAGACCATTTCTTT
#B10 GGAATG CTG₇₂ CTGGGGGGATCACAGACCATTTCTTT
#A2 #A3 etc. AGGCGCAAGACTTCAA----(Δ388 bp + TAGGGATAACAGGGTAAT)----CGAAATCTTGAGATCG
#B5 CATCTAGAGTCGTCCTTG TAGCC--(Δ325 bp)--TTTCTTTCTTTTCGGCCAGGCTG
#A8 #B11 TCTCCACAGCAGCAGC----- (YAK1-ARG2)-----ATCACAGACCATTTCT