

**Supporting Information S1. The benchmark dataset for splice donor sites.** It consists of a positive dataset  $\mathbf{S}_1^+$  and a negative dataset  $\mathbf{S}_1^-$ . The former contains 2,796 true splice donor site containing sequences, while the latter contains 2,800 false splice donor site containing sequences.

$\mathbf{S}_1^+$ : 2,796 true splice donor site containing sequences

>1

CTCCTCTTTGCCTTACTCCTAGCCATGGAGCTCCCATTTGGTGGCAGCCAGTGCCACCAT  
GCGCGCTCAGTGTAAGTATCATTCCCTCTCACTGTCCTGGAGAGGACGAGAATTCCAC  
CTGGGGTGCTGGGGGTCCTGGG

>2

AATGACTTCAACTGTCCCAACATTAGAGTATGTCCGTATCATATTAGGCGCTGTATGACA  
ATCTCCATTCGTAAGTACCTCTTGGTCATTTGGACACATTGTAGATTAGTCCCCTACCTG  
GGTAGTTTCTGGGGGCCAGGG

>3

TGACCAGGAAGTGGCGGGTGGGCGCCCTGCAGAGGCTGCTGCAGTTTGGGATCGTGG  
TCTATGTGGTAGGGTAAGAGAGAAGAGCTTTTGGCCAGGCTGGAGGGGCAAGGGAAG  
AGGTGGGGGGTGGGGCTTGGTCCTGC

>4

TTCCGTCCTCAGATCAAGGAGCTTGGAAACCGGCTGTGGGATGTGGCCGACTTCGTG  
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>5

AGAGAACGTGTTCTTCTTGGTGACCAACTTCCTTGTGACGCCAGCCCAAGTTCAGGGC  
AGATGCCAGAGGTGAGTTTACCCAGGATCCTCCCAGCGGGTCCCTTGTTCCTCCATCA  
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>6

TCCGTCCCCTGGCTAACTGCTGGGTGACGAGGACTGCCCCGAAGGGGAGGGAGGC  
ACACACAGCCACGGTAACTGTGGGCTCTGTCTTCCAGTGCCCCAGCAGGGTGGGGG  
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>7

TGTTCAATGGGACCCACAGGACCTGTGAGATCTGGAGTTGGTGCCCCGTGGAGAGTG  
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GGCCTGGCAGAGGCTGTACCTCCC

>8

TGGCCCAGGCCCAGAACTTCACACTGTTTCATCAAAAACACAGTCACCTTCAGCAAGTT  
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CCTCATCTGACCTTTCCCACTCC

>9

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>10

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GCTACAAC TTCAGGTGAGGCCCCACAGCTCCCAGTGCCCAGATGCTGGGCCCATCGCC  
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>11

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>12

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AGTATGAGGAGGTGAGCTGAGGTCGCTCTGCTTGGACCCTGGGTTCTGCCACACTTAG  
GAAGATGTTGGCTGGATCCCTGA

>13

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>14

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>15

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>16

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>17

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>18

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>19

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>20

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>21

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>22

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>23

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>24

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>25

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>26

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>27

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>28

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>29

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>30

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>31

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>32

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>33

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>34

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>35

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>36

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>37

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>38

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>39

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>40

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>41

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>42

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>43

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>44

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>45

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>46

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>47

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>48

CATTGCTGCCGAGAAGCGAGGCTCCAACCTCGAAGTAGAGCTGTGGCTCATCACGGCC  
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>49

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>50

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>51

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>52

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>53

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>54

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>55

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>56

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>57

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>58

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>59

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>60

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>61

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>62

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>63

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>64

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>65

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>66

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>67

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>68

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>69

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>70

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>71

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>72

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>73

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>74

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>75

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>76

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>77

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>78

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>79

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>80

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>81

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>82

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>83

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>84

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>85

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>86

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>87

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>88

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>89

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>90

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>91

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>92

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>93

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>94

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>95

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>96

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>97

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>98

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>99

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>100

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>101

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>102

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>103

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>104

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>105

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>106

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>107

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>108

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>109

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>110

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>111

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>112

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>113

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>114

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>115

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>116

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>117

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>118

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>119

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>121

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>122

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>123

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>124

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>126

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>127

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>128

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>129

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>131

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>132

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>133

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>134

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>136

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>137

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>138

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>139

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>141

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>142

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>144

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>145

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>146

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>148

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>156

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>157

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>163

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>164

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>165

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>166

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>167

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>172

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>173

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>174

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>175

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>176

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>177

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>178

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>183

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>184

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>186

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>187

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>188

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>189

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>198

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>199

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>206

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>212

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>213

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>215

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>217

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>218

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>219

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>325

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>326

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>327

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>328

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>329

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>330

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>331

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>332

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>334

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>335

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>336

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>337

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>338

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>339

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>340

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>341

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>344

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>346

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>348

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>349

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>354

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>355

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>356

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>357

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>359

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>366

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>367

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>368

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>369

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>370

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>371

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>373

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>377

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>378

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>380

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>381

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>382

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>383

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>384

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>385

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>386

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>387

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>388

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>389

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>390

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>391

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>392

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>393

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>394

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>395

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>396

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>397

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>398

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>399

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>401

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>403

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>404

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>405

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>406

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>408

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>409

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>412

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>414

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>415

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>416

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>418

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>421

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>422

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>423

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>425

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>426

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>427

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>429

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>431

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>432

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>1188

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>1189

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>1293

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>1295

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>1296

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>1297

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>1298

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>1299

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>2044

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>2045

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>2046

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>2047

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>2048

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>2049

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>2051

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>2052

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>2053

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>2056

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>2074

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>2085

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>2088

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>2105

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>2106

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>2107

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>2108

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>2109

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>2110

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>2111

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>2112

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>2114

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>2115

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>2116

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>2117

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>2118

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>2152

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>2368

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>2369

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$S_1^-$  : 2,800 false splice donor site containing sequences

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>107

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>114

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>131

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>134

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>136

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>137

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>138

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>159

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>163

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>168

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>169

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>171

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>173

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>174

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>186

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>187

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>189

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>191

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>192

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>193

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>194

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>196

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>197

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>198

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>206

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>207

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>211

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>212

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>274

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>275

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>276

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>277

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>281

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>284

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>289

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>293

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>294

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>296

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>297

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>299

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>301

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>303

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>305

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>306

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>307

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>308

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>309

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>311

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>313

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>314

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>315

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>316

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>317

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>318

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>319

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>320

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>321

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>322

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>323

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>324

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>325

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>326

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>327

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>328

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>329

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>330

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>331

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>332

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>333

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>334

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>337

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>338

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>339

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>340

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>341

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>342

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>343

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>344

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>345

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>346

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>347

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>348

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>349

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>350

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>351

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>352

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>353

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>354

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>355

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>356

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>357

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>358

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>359

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>360

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>361

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>362

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>363

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>364

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>365

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>366

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>367

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>368

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>369

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>370

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>371

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>372

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>373

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>374

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>375

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>376

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>377

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>378

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>379

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>380

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>381

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>382

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>383

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>384

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>385

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>386

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>387

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>388

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>389

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>390

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>391

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>392

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>393

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>394

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>395

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>396

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>397

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>398

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>399

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>401

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>403

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>404

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>405

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>406

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>408

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>409

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>410

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>411

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>412

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>413

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>414

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>415

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>416

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>417

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>418

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>419

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>420

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>421

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>422

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>423

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>424

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>1158

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>1164

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>1524

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>1533

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>1537

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>1538

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>1593

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>2697

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>2698

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>2759

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