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Zinc Finger Site Type: Nuclease
Zinc Finger Engineering Method: CoDA
Sequence Name : unknown
Sequence Length:154748
Nucleotide Sequence
:nAGTCCCCGTCTCTGCCGCGCGGGGGCGGGCGCGGGAAAAAGCCGCGCGGGGGCGCCCGCGGGAAGGCAGCCCCGCGGCGCGCGGGGGAGGGGCGGCGCCCGCGGGGAGCGGCCGGCTCCGGGGAGGGACGGI
Selected Module Sets:
Left Module Count: 3
Spacer Nucleotide Count: 5,6,7
Right Module Count: 3
Ignore Asp Overlap:False

The results below are zinc finger arrays that can be constructed using CoDA. Note that other methods (including modular assembly and OPEN) can also potentially be used to target the input sequence of interest."

Sort By: ☐ Hide intron splice sites

- +

ZFN-unknown-SP-7-1

1 aGTCCCCGTCTCTGCCGCGCGGGGGCGGGCGCGGGAAAAAGCCGCGCGGGGGCGCCCGCGGGAAGGCAGCCCCGCGGCGCGCGGGGGAGGGGCGGCGCCCGCGGGGAGCGGCCGGCTCCGGGGAGGGACGGI 27

1 tCAGGGGCAGGACGGCGCGCCCCCGCc 27
- +

ZFN-unknown-SP-6-1

8 gTCCTGCCGCGCGGGGGCGCGGCGCGG 33

8 cAGGACGGCGCGCCCCCGCGCGCc 33
- +

ZFN-unknown-SP-7-2

64 aGGCAGCCCCGCGGCGCGCGGGGGGA 90

64 tCCGTTCGGGCGCGCGCGCGCCCCCTc 90
- +

ZFN-unknown-SP-5-1

69 gCCCCGCGGCGCGCGGGGGAGGGG 93

69 cGGGCGCGCGCGCGCCCCCTCCCc 93
- +

ZFN-unknown-SP-6-2

69 gCCCCGCGGCGCGCGGGGGAGGGGc 94

69 cGGGCGCGCGCGCGCCCCCTCCCGg 94
- +

ZFN-unknown-SP-6-3

91 gGGCGGCGCGCGCGGGGGAGCGGGCCg 116

91 cCGGCGGCGGCGCGCCCCCTCGCCGGCc 116
- +

ZFN-unknown-SP-6-4

94 cGGCGCCCGCGGGGGAAGCGCGGGCt 119

94 gCGCGGGCGCCCCCTCGCCGGCCGa 119
- +

ZFN-unknown-SP-6-5

155 gCCCTGCCGCGCGCGCGCGCGCGCCg 180

155 cGGGACGGCGGGCGGGCGGGCGGc 180
- +

ZFN-unknown-SP-5-2

159 tGCCGCGCGCGCGCGCGCGCGCCc 183

159 aCGGCGGGCGGGCGGCGGGCGGGg 183
- +

ZFN-unknown-SP-7-3

262 gTCCTGCCGCGCGCCCTTAAGAGGGCc 288

262 cAGGACGGCGGCGGGGAATTCTCCCGg 288
- +

ZFN-unknown-SP-7-4

623 tCGCTCCTGCGGCGCTGGCTGCTGGTg 649

623 aCGGAGGACGCCGACCGACGACCAc 649
- +

ZFN-unknown-SP-7-5

626 cTCCTGCGGCGCTGGCTGCTGGTGCCc 652

626 gAGGACGCCGCGACCGACGACCGGg 652

⊕ ZFN-unknown-SP-6-6
 676 gGACTACCCCGCAACGACGACCCAg 701
 676 cCTGATGCCGCGCTTGCTGCTGCGTc 701

⊕ ZFN-unknown-SP-6-7
 679 cTACGCCGGCAACGACGACGACAGt 704
 679 gATGCGGCCGTTGCTGCTGCGTCTCa 704

⊕ ZFN-unknown-SP-6-8
 709 gAACAGCCCCCGAGCGAGGGCGGGGg 734
 709 cTTGTCCGGGGGCTCGCTCCCGCCc 734

⊕ ZFN-unknown-SP-6-9
 713 aGCCCCCGAGCGAGGGCGGGGGGAa 738
 713 tCGGGGGGCTCGCTCCCGCCCCCt 738

⊕ ZFN-unknown-SP-5-3
 713 aGCCCCCGAGCGAGGGCGGGGGGA 737
 713 tCGGGGGGCTCGCTCCCGCCCCt 737

⊕ ZFN-unknown-SP-7-6
 753 cGCACGCCCGCCTGCCGCGCCTGCc 779
 753 gCGTGCGGCCGCGACGGCGGCGGACg 779

⊕ ZFN-unknown-SP-5-4
 769 cGCGGCCTGCCCCCGCGCGCCGCCg 793
 769 gCGGCGGACGGGGGCGGCGGCGGc 793

⊕ ZFN-unknown-SP-5-5
 772 cGCCTGCCCCCGCCGCGCGCCGc 796
 772 gCGGACGGGGGCGCGGCGGCGCg 796

⊕ ZFN-unknown-SP-7-7
 839 cTACGGCTGCGCACACGACGGAGTAc 865
 839 gATGCCGACGCGTGGTGCTGCCTCATg 865

⊕ ZFN-unknown-SP-7-8
 897 cCCCCGCTCCCCGCCCGCGGACCGc 923
 897 gGGGGGCGCAGGGGCGGCGCTGCGCg 923

⊕ ZFN-unknown-SP-6-10
 1069 cCGTGTCTCCCCGCCCGCAGGTGTGc 1094
 1069 gGCAAGAGGGGCGGGCGTCCACACg 1094

⊕ ZFN-unknown-SP-7-9
 1184 cGACCGCGACCGGTTCGGCGCGCGt 1210
 1184 gCTGGCGCTGGCCAAGCCGCGGCGCa 1210

⊕ ZFN-unknown-SP-5-6
 1197 tTCCGGCGCCGCGTGCGCGCGGCCg 1221
 1197 aAGGCCGGGCGCACCGCCGCGGc 1221

⊕ ZFN-unknown-SP-7-10
 1300 gACCCGCGGAGGAGGAGGAGGCGGCGg 1326
 1300 cTGGGCGCCTCCTCCTCCTCGCGCc 1326

⊕ ZFN-unknown-SP-6-11
 1300 gACCCGCGGAGGAGGAGGAGGCGGCGg 1325
 1300 cTGGGCGCCTCCTCCTCCTCGCGCc 1325

⊕ ZFN-unknown-SP-7-11
 1506 cCGCTCCGCCCCCGGAGGGGCGGCGg 1532
 1506 gCGAGGGGCGGGGTCCCCGCGCc 1532

⊕

ZFN-unknown-SP-5-7
 1509 cTCCGCCCCGCCAGGGGGGGc 1533
 1509 gAGGGGGGGGGTCCCCCGCGc 1533

+ ZFN-unknown-SP-7-12
 1512 cGCCCCCAGGGGGGGGGc 1538
 1512 gCGGGGGGGTCCCCCGCGGGc 1538

+ ZFN-unknown-SP-6-12
 1513 gCCCGCCCCAGGGGGGGc 1538
 1513 cGGGGGGGTCCCCCGCGGGc 1538

+ ZFN-unknown-SP-5-8
 1931 gGGCCGCGCGGGGGGGc 1955
 1931 cCGGGGGGGCGCGCGGGc 1955

+ ZFN-unknown-SP-5-9
 1934 cCGCGCGGGGGGGc 1958
 1934 gGGGGGGCGCGCGGGc 1958

+ ZFN-unknown-SP-7-13
 1960 tCCCATCTGCGTCGGGGGGc 1986
 1960 aGGGTAGAGCGAGCGCGCGCGc 1986

+ ZFN-unknown-SP-5-10
 1963 cATCTGCGTCGGGGGGGGc 1987
 1963 gTAGAGCGAGCGCGCGCGc 1987

+ ZFN-unknown-SP-7-14
 1966 cTGCGTCGGGGGGGGc 1992
 1966 gAGCGAGCGCGCGCGCGc 1992

+ ZFN-unknown-SP-6-13
 2034 gGGCGCCCCGAGAGGGGGGATTCc 2059
 2034 cCGGGGGGGCTCTCCCCCTAAGc 2059

+ ZFN-unknown-SP-7-15
 2057 tCCCTCCCTCCGCCCCCGGGGGc 2083
 2057 aGGGAGGAGCGGGGGCGCGCGc 2083

+ ZFN-unknown-SP-6-14
 2200 gAGCGCGGGCGGGGGc 2225
 2200 cTCGGGGCGGGCGCGCTCTCTc 2225

+ ZFN-unknown-SP-7-16
 2200 gAGCGCGGGCGGGGGc 2226
 2200 cTCGGGGCGGGCGCGCTCTCTc 2226

+ ZFN-unknown-SP-5-11
 2335 gACCCCGGCCCGAGGGGGCGc 2359
 2335 cTGGGGGGGGGGCTCGCGGGc 2359

+ ZFN-unknown-SP-5-12
 2338 cCCGGCCCCGAGCGGGGGc 2362
 2338 gGGGGGGGGTCCGGGGCGc 2362

+ ZFN-unknown-SP-7-17
 2365 gACCCCGGCACGGTGAAGGGGc 2391
 2365 cTGGGGGGGTGCCACTCTCCGCTc 2391

+ ZFN-unknown-SP-6-15
 2425 aCCCGGCTGGGGTTGGGGTGTc 2450
 2425 tGGGGGAGCCCAACCCACc 2450

+ ZFN-unknown-SP-5-13

2425 aCCCGGCTGCGGGTTGGGGTGGTc 2449
 2425 tGGGCGACGCCAACCCACCAg 2449

⊕ ZFN-unknown-SP-6-16
 2538 cGCCCCCGACCTCTGGGGGGCGa 2563
 2538 gCGGGGGCTGGGAGACCCCCCGct 2563

⊕ ZFN-unknown-SP-5-14
 2538 cGCCCCCGACCTCTGGGGGGGcg 2562
 2538 gCGGGGGCTGGGAGACCCCCCGc 2562

⊕ ZFN-unknown-SP-5-15
 2539 gCCCCCGACCTCTGGGGGGCGa 2563
 2539 cGGGGGGCTGGGAGACCCCCCGct 2563

⊕ ZFN-unknown-SP-7-18
 2664 cCCCTTCGGAACAAAAAGCAGCGGGCg 2690
 2664 gGGGAAGGCTTGTTTTTCGTCGCCGc 2690

⊕ ZFN-unknown-SP-5-16
 2792 cCGCCCCGCACGCTGGGGGATGct 2816
 2792 gCGGGGGCTGCGGACCCCTACGa 2816

⊕ ZFN-unknown-SP-6-17
 2792 cCGCCCCGCACGCTGGGGATGCTc 2817
 2792 gCGGGGGCTGCGGACCCCTACGa 2817

⊕ ZFN-unknown-SP-6-18
 2835 cGCCAGCAGCGACTCGGAGGAGAGa 2860
 2835 gCGGTCTGCTGAGCCTCCTCTct 2860

⊕ ZFN-unknown-SP-5-17
 2835 cGCCAGCAGCGACTCGGAGGAGGa 2859
 2835 gCGGTCTGCTGAGCCTCCTCTc 2859

⊕ ZFN-unknown-SP-5-18
 2838 cAGCAGCGACTCGGAGGAGGAGAc 2862
 2838 gTCGTCTGCTGAGCCTCCTCTGg 2862

⊕ ZFN-unknown-SP-6-19
 2892 cCGCGACTCCACCTCCGAGGGGGGCa 2917
 2892 gCGCTGAGGTGGAGGCTCCGCCGct 2917

⊕ ZFN-unknown-SP-6-20
 2994 gGGCAGCCCCACGCCCGCCGACGCGc 3019
 2994 cCGGTCTGGGTGCGGGCGGCTGCGCg 3019

⊕ ZFN-unknown-SP-7-19
 3011 cCGACGCGCAGGGATCCTGTGGGGTg 3037
 3011 gGCTGGGCTCCCTAGGACACCCCAc 3037

⊕ ZFN-unknown-SP-6-21
 3674 gCGCCCCGGCGCGGGGGCGGGCGGTc 3699
 3674 cCGGGGGCGCGCCCCCGCCGCCACg 3699

⊕ ZFN-unknown-SP-6-22
 3755 gCCCCCGGAGCAGCAGCAGCGCGCGg 3780
 3755 cGGGGCGCCTCGTCGTCGTCGCCGc 3780

⊕ ZFN-unknown-SP-5-19
 3772 cAGCGGCGCGCCCCGTTCGGGGCg 3796
 3772 gTCGCCGCCCGCGGGGCAACGCCGc 3796

⊕ ZFN-unknown-SP-5-20
 3775 cGGCGGCGCCCGTTGCGGGCGGGg 3799
 3775 gCGGCCGGGGCAACGCCGCCc 3799

+ ZFN-unknown-SP-5-21
 3857 tCTCTTCCCCCTGCGGCGCGCGGGg 3881
 3857 aGAGAGGGGGACGCCGGCCGCCc 3881

+ ZFN-unknown-SP-5-22
 3861 tTCCCCCTGCGGCCGCGCGGGGGGg 3885
 3861 aAGGGGGACCGCGCCGCCCGCCc 3885

+ ZFN-unknown-SP-5-23
 3864 cCCCTGCGGGCGCGGGGGCGCGc 3888
 3864 gGGGACGGCGCGCCCGCCCGCGc 3888

+ ZFN-unknown-SP-5-24
 4115 gCGCGCCCCCGCGCGCGCGTCGCCc 4139
 4115 cGGCGGGGGCGCGCCGGCAGCGGg 4139

+ ZFN-unknown-SP-5-25
 4151 aGTCCGCCCCCGCGCCGCGCGCGCCc 4175
 4151 tCAGGCGGGCGCGCGCGCGCGGg 4175

+ ZFN-unknown-SP-6-23
 4164 cCGCGCCCGCCCCCGTGGTGCTCGc 4189
 4164 gCGGCGGGGGGGGGCACCACAGACGc 4189

+ ZFN-unknown-SP-7-20
 4212 cGCCGCCCGCGGTGCCGTGGACGCGc 4238
 4212 gCGGCGGGCGGCACGGCCACTGCGc 4238

+ ZFN-unknown-SP-6-24
 4369 cGGCACCAACACCCCGGTGCCGCCc 4394
 4369 gCCGTGGTTGTGGGGGCCACGGCGGg 4394

+ ZFN-unknown-SP-7-21
 4386 gTGCCGCCCCCAACGCCCGCGAGGGGg 4412
 4386 cACGGCGGGGGGTGCGGCGCTCCCCc 4412

+ ZFN-unknown-SP-6-25
 4387 tGCCGCCCCCAACGCCCGCGGAGGGGg 4412
 4387 aCGGCGGGGGGTGCGGCGCTCCCCc 4412

+ ZFN-unknown-SP-7-22
 4389 cGCCCCCAACGCCCGGAGGGGGCGc 4415
 4389 gCGGGGGGTGCGGCGCTCCCCCGc 4415

+ ZFN-unknown-SP-6-26
 4389 cCGCCCCCAACGCCCGGAGGGGGGg 4414
 4389 gCGGGGGGTGCGGCGCTCCCCCGc 4414

+ ZFN-unknown-SP-6-27
 4390 cGCCCCCAACGCCCGGAGGGGGCGc 4415
 4390 gCGGGGGGTGCGGCGCTCCCCCGc 4415

+ ZFN-unknown-SP-5-26
 4390 cGCCCCCAACGCCCGGAGGGGGGg 4414
 4390 gCGGGGGGTGCGGCGCTCCCCCGc 4414

+ ZFN-unknown-SP-7-23
 4417 gGCCCGCCCCCGAAGAGGCGCGGTc 4443
 4417 cCGGCGGGGGGCTTCTCCGCGCCAg 4443

+ ZFN-unknown-SP-6-28
 4418 gCCCGCCCCCGAAGAGGCGCGGTc 4443
 4418 cGGGCGGGGCTTCTCCGCGCCAg 4443

+

ZFN-unknown-SP-5-27
 4498 gCCCTCGCCCCCA**GGGGTGGG**g 4522
 4498 **cGGGAGCGGGGGT**CCCCACCCc 4522

⊕ ZFN-unknown-SP-6-29
 4498 gCCCTCGCCCCCA**GGGGTGGG**g 4523
 4498 **cGGGAGCGGGGGT**CCCCACCCc 4523

⊕ ZFN-unknown-SP-7-24
 4500 cCCTCGCCCCCAGGG**GTGGGGGCC**a 4526
 4500 g**GGAGCGGGGGT**CCCCACCCCGt 4526

⊕ ZFN-unknown-SP-6-30
 4500 cCCTCGCCCCCAGGG**GTGGGGG**c 4525
 4500 g**GGAGCGGGGGT**CCCCACCCCGg 4525

⊕ ZFN-unknown-SP-7-25
 4587 tCGCCCCGGGTCCGCG**GGCGCCGCG**c 4613
 4587 a**GGGGGCGC**AGGCGCCGCGGCGg 4613

⊕ ZFN-unknown-SP-7-26
 4623 cCTCTCCGTCTCCAG**GGCGGGTC**g 4649
 4623 g**CAGAGGCAGC**AGGTCGGCGCCAGc 4649

⊕ ZFN-unknown-SP-7-27
 4626 cTCCGTCTCCAGGCC**GGGTCCGC**g 4652
 4626 g**AGGCAGAGG**TCCGGGCCAGCGGc 4652

⊕ ZFN-unknown-SP-7-28
 4629 cGTCGTCCAGGCCGCG**GTCCCGCC**g 4655
 4629 g**CAGCAGGGT**CCGGCGCCAGCGGCGc 4655

⊕ ZFN-unknown-SP-7-29
 4755 cTCCGCCCTTCTCT**GGGGCGGG**g 4781
 4755 g**AGGCGGAGA**AGGAGACGCCCGCCc 4781

⊕ ZFN-unknown-SP-7-30
 4758 cCGCCTCTTCTCTGCG**GGGGGGT**g 4784
 4758 g**GGGAGAGAG**GAGACGCCCGCCCGAc 4784

⊕ ZFN-unknown-SP-7-31
 4761 cCTCTTCTCTGCGGG**GGGGTGGT**g 4787
 4761 g**AGAGAGAGAG**ACGCCCGCCCGACCAc 4787

⊕ ZFN-unknown-SP-7-32
 4764 cTTCCTCTGCGGGCGGG**GCTGGTGGG**a 4790
 4764 g**AGGAGACG**CCCCCGCCGACCACCt 4790

⊕ ZFN-unknown-SP-7-33
 4791 gCGTCGCGTCCGCGTCC**GGCGCTGGG**g 4817
 4791 **cGCAGCGCAG**GCGCAGGCCGCAACCc 4817

⊕ ZFN-unknown-SP-7-34
 4794 tCGCGTCCGCGTCCGGC**GCTGGGAG**a 4820
 4794 a**GCGCAGCGC**AGGCCGCGACCCCTt 4820

⊕ ZFN-unknown-SP-6-31
 4797 cGTCCGCGTCCGGCGC**TGGGAGAG**a 4822
 4797 g**CAGGCGCAG**GCGCGACCCCTCTt 4822

⊕ ZFN-unknown-SP-6-32
 4831 cTCCCTCGGCCCGCG**GCTGCTGCG**c 4856
 4831 g**AGGAGCCCG**GGGGCGCGACGACGc 4856

⊕ ZFN-unknown-SP-5-28
 4837 cGGCCCCGCGCTG**CGGCCCG**g 4861

4837 gCCGGGGCGCGACGACGCGGCc 4861

⊞ ZFN-unknown-SP-6-33
 4845 gCGCTGCTGCGCCGGGGGGCCGAGg 4870
 4845 cGCGACGACGCGGCGCCCCCGGCTC 4870

⊞ ZFN-unknown-SP-6-34
 4848 cTGCTGCGCCGCGGGGGCCGAGGAAg 4873
 4848 gACGACGCGCGCCCCCGGCTCCTTc 4873

⊞ ZFN-unknown-SP-5-29
 5112 cCGCGCCCCCGCGTGGAGCCCGCg 5136
 5112 gCGCGCGGGGCGCACCTCGGCGGc 5136

⊞ ZFN-unknown-SP-5-30
 5115 cGGCCCCCGCGTGGA GCCGCCGCAc 5139
 5115 gCGGGGGCGCACCTCGGCGCGTg 5139

⊞ ZFN-unknown-SP-7-35
 5186 cGACGCCCCCGCGTCGGAGTGGAAc 5212
 5186 gCTGCGGGGGCGCAGCTCACCTTg 5212

⊞ ZFN-unknown-SP-7-36
 5187 cGACGCCCCCGCGTCGGAGTGGAACa 5213
 5187 gCTGCGGGGGCGCAGCCTCACCTTgt 5213

⊞ ZFN-unknown-SP-6-35
 5187 cGACGCCCCCGCGTCGGAGTGGAAc 5212
 5187 gCTGCGGGGGCGCAGCCTCACCTTg 5212

⊞ ZFN-unknown-SP-7-37
 5294 tCGCGCCACCCGTGGTC TCGGGAGCAg 5320
 5294 aCGCGGTGGGCACAGACCTCGTc 5320

⊞ ZFN-unknown-SP-6-36
 5420 cACCGCCGAGGCGCCTCGGGGGCAg 5445
 5420 gTGGCGGCTTCGCGGAGCCCCGTc 5445

⊞ ZFN-unknown-SP-7-38
 5667 cAGTCCCCCGCGCAGGGGGCCGGGg 5693
 5667 gTCGAGGGGGCGCGTCCCCCGGGCCc 5693

⊞ ZFN-unknown-SP-5-31
 5669 gTCCCCCGCGCAGGGGGCCGGGg 5693
 5669 cAGGGGGCGCGTCCCCCGGGCCc 5693

⊞ ZFN-unknown-SP-7-39
 5735 aAGCCGCCCCACCCCCGAGGCTGTt 5761
 5735 tTCGGCGGGGTGGGGGCTCCGGACAa 5761

⊞ ZFN-unknown-SP-6-37
 5736 aCGCGCCCCACCCCCGAGGCTGTt 5761
 5736 tCGGCGGGGTGGGGGCTCCGGACAa 5761

⊞ ZFN-unknown-SP-7-40
 6073 gCAGCCCTCTGCCCCCGGGGACGGGt 6099
 6073 cGTGCGGGACACGGGGGCCCTGCCCCa 6099

⊞ ZFN-unknown-SP-7-41
 6213 cTCTCTACCTGGCTGGAGAAAGGa 6239
 6213 gGAGGATGGGACCGACCTCTTTCTc 6239

⊞ ZFN-unknown-SP-5-32
 6318 cCCCTCCTTACCCTGGCTGCGGGGa 6342
 6318 gGGGAGGAATGGGACCGACGCCCTc 6342

⊞

ZFN-unknown-SP-7-42
6318 cCCCTCCTTACCCTGGCTGCGGGGAGa 6344
6318 gGGGAGGAATGGGACCGACGCCCTCt 6344

+ ZFN-unknown-SP-7-43
6341 gAGACTCCCATCGGGGCAGGGGGCTc 6367
6341 cTCTGAGGGTAGCCCCGCTCCCCAG 6367

+ ZFN-unknown-SP-6-38
6544 cCCCGCCCGCGCCACGCGGTAGAGg 6569
6544 gGGGCGGCGCGGGTGCGCCATCTCc 6569

+ ZFN-unknown-SP-6-39
6547 cGCCCGCGCCACGCGGTAGAGGAAg 6572
6547 gCGGCGCGGGTGCGCCATCTCCTTc 6572

+ ZFN-unknown-SP-6-40
6550 cCGCGCCACGCGGTAGAGGAAGGGg 6575
6550 gGCGCGGTGCGCCATCTCCTTCCCc 6575

+ ZFN-unknown-SP-6-41
6578 gGGCGCCACACCCACGCTGTGCGCCg 6603
6578 cCGGCGGTGTGGGTGCCGACACCGGc 6603

+ ZFN-unknown-SP-7-44
6580 gCGCCACACCCACGGCTGTGCGCGGGc 6606
6580 cGCGGTGTGGGTGCCGACACCGGCCc 6606

+ ZFN-unknown-SP-6-42
6604 gGCACGCGCCTTTGGGCTTGTGGGg 6629
6604 cCGTGCGGGAAACCCAAACAACCCc 6629

+ ZFN-unknown-SP-6-43
6679 cTGCCCCCGGGAACGACGACGGGg 6704
6679 gACGGGGGGCCCTTGCTGCTGCCCc 6704

+ ZFN-unknown-SP-6-44
6978 tCTCCCCCGCCTCAGCAGAAGCTc 7003
6978 aGAGGGGCGCGGAGTCGTCTTCGAg 7003

+ ZFN-unknown-SP-7-45
7010 aCGACCCCTAAACCTACCTGCGAGAACg 7036
7010 tGCTGGGATTGGATGGACGCTCTTGc 7036

+ ZFN-unknown-SP-7-46
7129 gCGCGGCTCTCGGTGGGACGCGGGCa 7155
7129 cGCGCGGAGAGCCACCTGCGCCCGt 7155

+ ZFN-unknown-SP-6-45
7158 gGGCGGCGGCGGGGGGGGGGGGGg 7183
7158 cCGGCGGCGCGCGCCCCCCCCCCCCc 7183

+ ZFN-unknown-SP-7-47
7158 gGGCGGCGGCGGGGGGGGGGGGGg 7184
7158 cCGGCGGCGCGCGCCCCCCCCCCCCc 7184

+ ZFN-unknown-SP-5-33
7158 gGGCGGCGGCGGGGGGGGGGGGGg 7182
7158 cCGGCGGCGCGCGCCCCCCCCCCCCc 7182

+ ZFN-unknown-SP-5-34
7161 cGGCGGCGGCGGGGGGGGGGGGGg 7185
7161 gCGGCGGCGCGCGCCCCCCCCCCCCc 7185

+ ZFN-unknown-SP-7-48

7161 cGGCGGCGGGGGGGGGGGGGGGAa 7187
 7161 gCGGCGGCGGGGGGGGGGGGGGGTt 7187

⊕ ZFN-unknown-SP-6-46
 7161 cGGCGGCGGGGGGGGGGGGGGga 7186
 7161 gCGGCGGCGGGGGGGGGGGGGGct 7186

⊕ ZFN-unknown-SP-5-35
 7355 gGGCCCCGGCGCTCCGCCGGGGc 7379
 7355 cCGGGGGCGCGAGGCGGGCCGg 7379

⊕ ZFN-unknown-SP-5-36
 7401 gACGCTTCCGCCCGGCCGGGc 7425
 7401 cCTGCGGAAGCGGGCCCGGCCg 7425

⊕ ZFN-unknown-SP-7-49
 7495 gCGCGGCGCGGAGGGGGCGCGCGc 7521
 7495 cGGCGGCGCGCTCCCCGCGCGGc 7521

⊕ ZFN-unknown-SP-6-47
 7510 gGGCGGCGCGGAGGTGGGGGGCc 7535
 7510 cCGGCGGCGCGCTCCACGCCCGGg 7535

⊕ ZFN-unknown-SP-5-37
 7510 gGGCGGCGCGGAGGTGGGGGGCc 7534
 7510 cCGGCGGCGCGCTCCACGCCCGGg 7534

⊕ ZFN-unknown-SP-7-50
 7740 gGGCCCTGCGTTCGTGCTGGCGc 7766
 7740 cCGGGGACGCAAGCAACGAGCGCGc 7766

⊕ ZFN-unknown-SP-5-38
 7804 tGCCACAGCAACACGGGGCGGg 7828
 7804 aCGGGTGTCGTGTGCGCCGCCc 7828

⊕ ZFN-unknown-SP-5-39
 7807 cCACAGCAACGCGGGGGGCTc 7831
 7807 gGTGTCGTGTGCGCCGCCCGAg 7831

⊕ ZFN-unknown-SP-7-51
 7895 gCGCGCCCCCCCCAACGTGGGAGTgt 7921
 7895 cGGCGGGGGGGGTTGCACCTCACA 7921

⊕ ZFN-unknown-SP-6-48
 7897 gCGCCCCCCCCAACGTGGGAGTgt 7922
 7897 cGGGGGGGGGTTGCACCTCACAa 7922

⊕ ZFN-unknown-SP-5-40
 7897 gCGCCCCCCCCAACGTGGGAGTgt 7921
 7897 cGGGGGGGGGTTGCACCTCACA 7921

⊕ ZFN-unknown-SP-5-41
 7898 cGCCCCCCCCAACGTGGGAGTgt 7922
 7898 gCGGGGGGGGTTGCACCTCACAa 7922

⊕ ZFN-unknown-SP-6-49
 8062 gTTCTCTCCGCGCGGCCGGCGCGc 8087
 8062 cAAGAGAGGCGGCGCGCGCGCc 8087

⊕ ZFN-unknown-SP-6-50
 8065 tCTCTCCGCGCGGCCGGCGGGGc 8090
 8065 aGAGGGCGCGCGCGCGCGCCCGc 8090

⊕ ZFN-unknown-SP-5-42
 8115 aGCGCGCGCGCTGCTCGGCTCGGg 8139
 8115 tCGGCGCGCGCGACGAGCCGACGc 8139

⊕ ZFN-unknown-SP-7-52
 8330 gGTCTCCTTCGTGGGC**GGCGGGGGg** 8356
 8330 c**CAGAGGAAG**CAGCCCGCCGCCCCC**c** 8356

⊕ ZFN-unknown-SP-5-43
 8330 gGTCTCCTTCGTGG**GCGGGGGg** 8354
 8330 c**CAGAGGAAG**CAGCCCGCCGCCCC**c** 8354

⊕ ZFN-unknown-SP-7-53
 8333 cTCCTTCGTGGGGCG**GGGGGGGg** 8359
 8333 g**AGGAAGC**AGCCCGCCGCCCCC**c** 8359

⊕ ZFN-unknown-SP-5-44
 8333 cTCCTTCGTGGGG**GCGGGGGg** 8357
 8333 g**AGGAAGC**AGCCCGCCGCCCCC**c** 8357

⊕ ZFN-unknown-SP-6-51
 8691 gCGCGCGGGCGGTGG**GTTGGGGGa** 8716
 8691 c**GCGCGCG**CCAGCCCA**CCCCCt** 8716

⊕ ZFN-unknown-SP-7-54
 8691 gCGCGCGGGCGGTGG**GTTGGGGAg** 8717
 8691 c**GCGCGCG**CCAGCCCA**CCCCCTc** 8717

⊕ ZFN-unknown-SP-7-55
 8751 cCACTCCACCCCGACC**GCCGCCGc** 8777
 8751 g**GTGAGGT**TGGGCTGGCGGCGCG**c** 8777

⊕ ZFN-unknown-SP-7-56
 8787 tGCCGCCCGCGCTCC**TGTGTGACc** 8813
 8787 a**CGGCGGCG**CGCAGGACACAC**TGg** 8813

⊕ ZFN-unknown-SP-7-57
 8948 gCCCCCTGCCGGCGGG**GCGGTGGcg** 8974
 8948 c**GGGGGAC**GGCCCGCCCGCC**ACCc** 8974

⊕ ZFN-unknown-SP-5-45
 8948 gCCCCCTGCCGGCG**GGGGGTg** 8972
 8948 c**GGGGGAC**GGCCCGCCCGCC**ACCc** 8972

⊕ ZFN-unknown-SP-5-46
 9029 gGGCGCGCGCGAC**GCGGCGGCc** 9053
 9029 c**CGCGGCG**CGCTGCGCCCGCG**c** 9053

⊕ ZFN-unknown-SP-5-47
 9064 gCGCGCGGGCGGG**GGGGCGCg** 9088
 9064 c**GCGCGCG**CGCCCGCCCGCG**c** 9088

⊕ ZFN-unknown-SP-5-48
 9085 gCGCGCGGGCGGG**GGGGCGCg** 9109
 9085 c**GCGCGCG**CGCCCGCCCGCG**c** 9109

⊕ ZFN-unknown-SP-5-49
 9106 gCGCGCGGGCGGG**GGGGCGCg** 9130
 9106 c**GCGCGCG**CGCCCGCCCGCG**c** 9130

⊕ ZFN-unknown-SP-5-50
 9127 gCGCGCGGGCGGG**GGGGCGCg** 9151
 9127 c**GCGCGCG**CGCCCGCCCGCG**c** 9151

⊕ ZFN-unknown-SP-5-51
 9148 gCGCGCGGGCGGG**GGGGCGCg** 9172
 9148 c**GCGCGCG**CGCCCGCCCGCG**c** 9172

⊕

ZFN-unknown-SP-5-52
 9169 gCGCGGCGGCGGCGGGGGCGGc 9193
 9169 cGGCGGCGGCGGCGGCGGCGGc 9193

⊕ ZFN-unknown-SP-6-52
 9892 cGACTCGCCGCTGCGTCGGGCGACg 9917
 9892 gCGTGAGCGGCGACGACGCGCGCTGc 9917

⊕ ZFN-unknown-SP-5-53
 10052 tCTCCCGACGCGAGGTCGGCGCCg 10076
 10052 aGAGGGGCTGCGCTCCAGCCGCGGc 10076

⊕ ZFN-unknown-SP-5-54
 10145 cCGACCCGCTAGCGGCCGGGTCGg 10169
 10145 gCGTGGGCGATCGCCGGCCAGCc 10169

⊕ ZFN-unknown-SP-6-53
 10175 cAGCGTCGTCGCCCTAGAGGCTGTCc 10200
 10175 gTCGACGAGCGGGATCTCCGACAGg 10200

⊕ ZFN-unknown-SP-7-58
 10337 tGGCGGCCCTGTGGAGCCGGAGCTc 10363
 10337 aCCGCGGGGACAACCTCGGCTCGAg 10363

⊕ ZFN-unknown-SP-5-55
 10424 gTGCTGCCCGCGGGAGGATGTGt 10448
 10424 cACGACGGCGGCGCCCTCCTACACa 10448

⊕ ZFN-unknown-SP-5-56
 10660 tCGCGACGCGTGCTGTTGTGAAc 10684
 10660 aCGGCTGCCGCACGACAACAATTg 10684

⊕ ZFN-unknown-SP-5-57
 11275 gGCCGGCGACCCGCCGGGGGGCGAc 11299
 11275 cGGCCGCTGGGCGCCCCCGCCTg 11299

⊕ ZFN-unknown-SP-6-54
 11275 gGCCGGCGACCCGCCGGGGCGGACg 11300
 11275 cGGCCGCTGGGCGCCCCGCCTGc 11300

⊕ ZFN-unknown-SP-6-55
 11430 aGACCTCGTCGTTTTTCGGGACGGCc 11455
 11430 tCTGGAGCAGCAAAAGCCCTGCCGg 11455

⊕ ZFN-unknown-SP-6-56
 11949 gGTCTGCGTCGTCCAGGGTGGGGTg 11974
 11949 cCAGACGAGCAGGTCCACCCCGAc 11974

⊕ ZFN-unknown-SP-6-57
 12094 gCACCCCGCGCGGCCTCGGGGGGCc 12119
 12094 cGTGGGGGGCGGCGGAGCCCCGGGc 12119

⊕ ZFN-unknown-SP-6-58
 12097 cCCCCGCGCCGCTCGGGGCCGTc 12122
 12097 gGGGGCGCGCGGAGCCCCGGCAGg 12122

⊕ ZFN-unknown-SP-5-58
 12160 cCACACCCTCAGSATGCCGGCc 12184
 12160 gGTGTGGTGGCAGTCCTACGGCCGg 12184

⊕ ZFN-unknown-SP-5-59
 12337 cACCAAGCAGCCGATGGGGGTGTGt 12361
 12337 gTGGTCGTGGGCTACCCCAACa 12361

⊕ ZFN-unknown-SP-6-59
 12337 cACCAAGCAGCCGATGGGGGTGTGt 12362

12337 gTGGTCGTCGGGCTACCCACACAa 12362

⊞ ZFN-unknown-SP-5-60

12369 cCAGCCTCCGCGGGcCAGGCGGTc 12393
12369 gGTGCGGAGcCGCCCCGTCCGCCAg 12393

⊞ ZFN-unknown-SP-7-59

12990 aCTCGCCACCCGCCcGTCGCGTGCc 13016
12990 tGAGCCGGTcCGGCCGGCAGCGCAGg 13016

⊞ ZFN-unknown-SP-6-60

13015 cGCGCGCGCAGCTCCcTCCGcGAACg 13040
13015 gCGCGCGCGcTCGAGGAGCGCTTgc 13040

⊞ ZFN-unknown-SP-5-61

13060 gTACCCCATCAGCGTcTAGTTGTc 13084
13060 cATGGGGTAcTCGCACATCAACAG 13084

⊞ ZFN-unknown-SP-5-62

13423 aCGCTCCCCGGAGAcCGGTTCGTg 13447
13423 tCGAGGGGcCCTCTGCCAGCGAc 13447

⊞ ZFN-unknown-SP-7-60

13449 tGTCGGCGCCCTGGTTGCCGATCCGc 13475
13449 aCAGCCCGCGGGACCAACGGCTACGc 13475

⊞ ZFN-unknown-SP-5-63

13473 cGCGCGCGCGTCCCcGGCGTAGCGa 13497
13473 gCGGCCCGCGCAGGGCCGCATCGct 13497

⊞ ZFN-unknown-SP-5-64

13507 tGCCGTcAGCTCCCCcTAGGGCGCCg 13531
13507 aCGGCAGTCcAGGGGATCCGCCGc 13531

⊞ ZFN-unknown-SP-6-61

13746 tCACCGCGACCTGGCTcTTGAGGACg 13771
13746 aGTGGCGCTcGACCGACAATCCTGc 13771

⊞ ZFN-unknown-SP-7-61

14389 gCACACCAGCACCGCCcGcAGCGCGCc 14415
14389 cGTGTGGTcGTGGCCGGCGTCCGCCGg 14415

⊞ ZFN-unknown-SP-7-62

14637 gCGCGTCTTCGCCCCCGTGCcCGCCa 14663
14637 cCGCAGAAcCGGGGcACGCGCGGt 14663

⊞ ZFN-unknown-SP-5-65

15052 gCGCGGCACCTGCGTcACGTcGAGc 15076
15052 cCGCCGTGCACGCACTGCAGCTc 15076

⊞ ZFN-unknown-SP-6-62

15249 tGGCCGCACAGCGCGcGGGGCGCCg 15274
15249 aCCGGCGTGTcCGCGCGGCCCGCGc 15274

⊞ ZFN-unknown-SP-6-63

15267 gGGCGCGCGCATCGcGACCGGGc 15292
15267 cCGCGGGCGcTACGCCTGCGCCCG 15292

⊞ ZFN-unknown-SP-6-64

15307 aTGCGCCCCGAGGACGGCTGGGTGa 15332
15307 tACCGGGGcCTCCTGCCGACCCAct 15332

⊞ ZFN-unknown-SP-7-63

15335 gTTCACCCACCCCCGGcACGATGTg 15361
15335 cAGTGGGTGGGGCCCTGCTACAac 15361

⊞

ZFN-unknown-SP-5-66
 15337 tCACCCACCCCGGgACGATGTTg 15361
 15337 aTGGGGTGGGGCCCTGCTACAac 15361

⊕ ZFN-unknown-SP-6-65
 15339 aCCCCACCCCGGACGATGTTGTTc 15364
 15339 tGGGTGGGGGCCCTGCTACAACAag 15364

⊕ ZFN-unknown-SP-5-67
 15340 cCCCCACCCCGGACGATGTTGTTc 15364
 15340 gGGGTGGGGCCCTGCTACAACAag 15364

⊕ ZFN-unknown-SP-6-66
 15435 aGGCCGCCACCCGACAGCTGCAGGGc 15460
 15435 tCCGGCGGTGGGTGTCGACGTCCGc 15460

⊕ ZFN-unknown-SP-5-68
 15436 gCCCGCCACCCGACAGCTGCAGGGc 15460
 15436 cCGGCGGTGGGTGTCGACGTCCGc 15460

⊕ ZFN-unknown-SP-5-69
 15439 cGCCACCCGACAGCTGCAGGCGGc 15463
 15439 gCGGTGGGCTGTGACGTCCGCCc 15463

⊕ ZFN-unknown-SP-5-70
 15532 gCCCCGCGGCTCCAGCCGAGCGc 15556
 15532 cCGGCGCCGGAGGTGCGGCTCGCc 15556

⊕ ZFN-unknown-SP-5-71
 15535 cCGCGGCTCCAGCCCGAGCGGCTg 15559
 15535 gGCGCGGAGGTGCGGCTCGCGAc 15559

⊕ ZFN-unknown-SP-6-67
 15786 aGGCGACGACGCCTGGGGCGTTt 15811
 15786 tCCGCTGCGTCGCGGACCCCGCAAa 15811

⊕ ZFN-unknown-SP-7-64
 15940 cATCTACTACAACCATCGCCGGGGGga 15966
 15940 gTAGATGATCTTGGTAGCGGCCCCct 15966

⊕ ZFN-unknown-SP-7-65
 15950 aACCATCGCCGGGGGA GTGGCTGGTg 15976
 15950 tTGGTAGCGCCCCCTACCGACCAc 15976

⊕ ZFN-unknown-SP-5-72
 16110 aACACGCGACATCTGCCGTCTGCg 16134
 16110 tTGTGCGCGTGTAGACGCAGACGc 16134

⊕ ZFN-unknown-SP-6-68
 16137 aCACCGCCTCCGTCAAGGTGCTGTTg 16162
 16137 tGTGGCGCAAGCAGTTCCACGACAAc 16162

⊕ ZFN-unknown-SP-6-69
 16171 gAGCGACAGCGAGCGCGGGGTGGCTg 16196
 16171 cTCGCTGTGCTCGCGCCCCACCGAc 16196

⊕ ZFN-unknown-SP-6-70
 16330 aCGCGCCTACTTGGACGAGGCGGGGg 16355
 16330 tCGCGGATGAACCTGCTCCGCCCCc 16355

⊕ ZFN-unknown-SP-7-66
 16384 cCACACCCTCCCTGGGTTCGGCAAGGg 16410
 16384 gGTGTGGAGGGACCAAGCCGTTCc 16410

⊕ ZFN-unknown-SP-6-71

16385 cACACCTCCCTGGGTTCGGCAAGGg 16410
 16385 gTGTGGGAGGACCAGCCGTTCCc 16410

⊕ ZFN-unknown-SP-7-67
 16427 tCGCGCCCCAGGACCCGGGGGCCCa 16453
 16427 aGGGGGGGGTCCTGGGCCCCGCGct 16453

⊕ ZFN-unknown-SP-5-73
 16495 cAACATCAACGGCATGCTGGAGGGc 16519
 16495 gTTGTAGTTGCCGTACGACCTCCc 16519

⊕ ZFN-unknown-SP-7-68
 16604 gAGCTCGGGCGCCCCAGCGGGGGc 16630
 16604 cTCGACGCCCGCGGGGTCCGCCCCc 16630

⊕ ZFN-unknown-SP-5-74
 16996 tGTCATCCTAGGGAGGAGGAGTTa 17020
 16996 aCAGTAGGATCCCTCCTCCTCAat 17020

⊕ ZFN-unknown-SP-7-69
 17067 aCGTCGCGGCCCTGTTCTGTGGCGGACg 17093
 17067 tCGAGCGCCGGACAAGCACCCTGc 17093

⊕ ZFN-unknown-SP-6-72
 17261 gCCCGACCCACGCCCGCCGATGAGg 17286
 17261 cCGGCTGGGGTGGGGCGGCTACTCtc 17286

⊕ ZFN-unknown-SP-7-70
 17263 cCGACCCACGCCCGCGATGAGGGAa 17289
 17263 gGCTGGGGTGGGGCGGCGGTACTCCCTt 17289

⊕ ZFN-unknown-SP-6-73
 17429 gACGAGCTCTCTGCGGTTGACGTca 17454
 17429 cTGGTCGCAGGACGCGCAACTGCAGt 17454

⊕ ZFN-unknown-SP-5-75
 17447 tGACGTACCCCCAGGGGGCGGTTg 17471
 17447 aCTGCAGTGGGGTCCCCGCCAAc 17471

⊕ ZFN-unknown-SP-6-74
 17449 aCGTCACCCCAGGGGGCGGGTTGCGg 17474
 17449 tGCAGTGGGGTCCCCGCCAACGCc 17474

⊕ ZFN-unknown-SP-5-76
 17450 cGTCACCCCAGGGGGCGGGTTGCGg 17474
 17450 gCAGTGGGGTCCCCGCCAACGCc 17474

⊕ ZFN-unknown-SP-6-75
 17492 tTCCGACGACGCTACGTGGCGTCGg 17517
 17492 aAGGCTGCTGCGCATGCACCGCAGCc 17517

⊕ ZFN-unknown-SP-6-76
 17962 cCACCCCGCAGAGCTCTGCGTTGCAg 17987
 17962 gGTGGGGCGTCTCGAGACGCAACGTc 17987

⊕ ZFN-unknown-SP-6-77
 17999 cGTCCCCCGCACGGACTGTGTGGCCt 18024
 17999 gCAGGGGGCGTGCCTGACACCCGga 18024

⊕ ZFN-unknown-SP-5-77
 18000 gTCCCCCGCACGGACTGTGTGGCCt 18024
 18000 cAGGGGGCGTGCCTGACACCCGga 18024

⊕ ZFN-unknown-SP-7-71
 18032 gGCCGGCGTCATGGGAAGCTGCTGGAa 18058
 18032 cGGGGCGCACTACCTTCGACGACCTt 18058

⊕ ZFN-unknown-SP-5-78
 18193 tCGTGTcATCTCTCGGGGATGGTg 18217
 18193 aCACAAGTAGAGAGCCCCCTACCAc 18217

⊕ ZFN-unknown-SP-6-78
 18688 gGTCGTGGCCTCGCCTGGGGGGTc 18713
 18688 cAGCAGCCGAGAGCGACCCCCCAg 18713

⊕ ZFN-unknown-SP-7-72
 18688 gGTCGTGGCCTCGCCTGGGGGGTca 18714
 18688 cAGCAGCCGAGAGCGACCCCCCAGt 18714

⊕ ZFN-unknown-SP-6-79
 18808 cGGCTCTCTCGGGGGGCGCGCGGC 18833
 18808 gCCGGAGGAGGCCGCCCGGCCCGGg 18833

⊕ ZFN-unknown-SP-5-79
 18809 gGCTCTCTCGGGCGGCGCGCGGCc 18833
 18809 cGGAGGAGCGGCCCGGCCCGCGg 18833

⊕ ZFN-unknown-SP-6-80
 18812 cTCTCCGGCGGGCCGGCGCGCGGCc 18837
 18812 gAGGAGGCCGCCGCCCGGCCCGGg 18837

⊕ ZFN-unknown-SP-5-80
 18823 gCCCGGGCGCGGCCCGCGGAGGA 18847
 18823 cGGCGCGCGGCCCGCGGCTCTCTa 18847

⊕ ZFN-unknown-SP-5-81
 18858 gCGTCGCGCATAACCTCGGCCCGCg 18882
 18858 cGAGCGCGGTATTGAGCGCGCGc 18882

⊕ ZFN-unknown-SP-6-81
 19144 aCGCAGCCCCGGTGCCCGCGAGACc 19169
 19144 tCGCTCGGGCCACGGCGGCTCTGg 19169

⊕ ZFN-unknown-SP-6-82
 19172 aAACTTCACCGAGCTGCGGTCTGct 19197
 19172 tTTGAAGTGGCTCGACCGGCAGACGa 19197

⊕ ZFN-unknown-SP-5-82
 19222 tGACCCCGCCGAGCAGCTGCCCGGAg 19246
 19222 aCTGGGGCGGCTCGTTCGACGGCCTc 19246

⊕ ZFN-unknown-SP-6-83
 19224 aCCCCGCCGAGCAGCTGCCGAGCGc 19249
 19224 tGGGGCGGCTCGTCGACGGCTCGCg 19249

⊕ ZFN-unknown-SP-6-84
 19456 gCCCGACGGCCCGCGGGGTCGAGt 19481
 19456 cGGGCTGCCGCGGCCCCCACTCa 19481

⊕ ZFN-unknown-SP-7-73
 19627 gGCACGGGCATGGGTGCCCGGGCg 19653
 19627 cGTCGCGCGTACCCACGGCGCGCGg 19653

⊕ ZFN-unknown-SP-6-85
 19667 aCGCGCCGACTCGGCGCGCGCGCGg 19692
 19667 tCGCGGGCTAGCCGCCCGGCCCGc 19692

⊕ ZFN-unknown-SP-7-74
 19672 cCGACTCGCGCGCGCGCGCGCGCa 19698
 19672 gGCTGAGCCGCCCGCGCGCGCGGt 19698

⊕

ZFN-unknown-SP-6-86
 19873 cGTCGCGCGCGCTCACGAAGTAGTCg 19898
 19873 gCAGCGGCCGCGAGTGCTTCATCAGc 19898

⊕ ZFN-unknown-SP-7-75
 19916 cACCCGCGCGGTGACCCGCTGCGGGTg 19942
 19916 gTGGGCGCGGCACTGGGCGACGCCACc 19942

⊕ ZFN-unknown-SP-5-83
 19928 gACCCGCTGCGGGTGTCGCGGGGc 19952
 19928 cTGGCGCACGCCACAGCGCCCCg 19952

⊕ ZFN-unknown-SP-7-76
 19990 aGGCGCCCTCCTTCCTGTCGCGCGGAa 20016
 19990 tCCGCGGGAGGAAGGACCAAGCCGCTTc 20016

⊕ ZFN-unknown-SP-6-87
 19994 gCCCTCCTTCCTGGTCGGCGGAACg 20019
 19994 cGGGAGGAAGGACCAGCCGCTTTGc 20019

⊕ ZFN-unknown-SP-7-77
 19994 gCCCTCCTTCCTGGTCGCGGAAACGc 20020
 19994 cGGGAGGAAGGACCAGCCGCTTTGc 20020

⊕ ZFN-unknown-SP-5-84
 20051 gTCCTCGTCGTGATGGTGACGGCg 20075
 20051 cCAGGAGCAGCACTACCACTGCCGc 20075

⊕ ZFN-unknown-SP-6-88
 20197 tGGCCTCCACGTCCAGGAGGCGGGCg 20222
 20197 aCCGAGGTGCAGGTCTCCGCGCc 20222

⊕ ZFN-unknown-SP-6-89
 20393 gGGCTCCAGCGGGAGGCGGCCGGGg 20418
 20393 cCCGAGGTCCGCCCTCCGCGGCCCc 20418

⊕ ZFN-unknown-SP-7-78
 20419 cCGTCGCGCGCGGGCGGCCGACGg 20445
 20419 gGCAGCGCGCGGCCCGCGGCTGCc 20445

⊕ ZFN-unknown-SP-7-79
 20434 cGGCCGCGACGGCCCCCGGGGCCGAGa 20460
 20434 gCCGGCGGTCCGGGGGCCCGGCTCt 20460

⊕ ZFN-unknown-SP-7-80
 20437 cCGCGACGGCCCCGGGGGCCGAGACgt 20463
 20437 gGCGCTGCCGCGGCCCGGCTCTGCa 20463

⊕ ZFN-unknown-SP-6-90
 20632 tCTCCTCCACCCAAACGATGCGGGGg 20657
 20632 aGAGGAGGTGGGTTTGCTACGGCCCc 20657

⊕ ZFN-unknown-SP-5-85
 20633 cTCCTCCACCCAAACGATGCCGGGg 20657
 20633 gAGGAGGTGGGTTTGCTACGGCCCc 20657

⊕ ZFN-unknown-SP-6-91
 20635 cCTCCACCCAAACGATGCCGGGGCt 20660
 20635 gGAGGTGGGTGTGCTACGGCCCCGa 20660

⊕ ZFN-unknown-SP-7-81
 20701 gCGCGGCCCAGACTTATAGGGTGCTa 20727
 20701 cGCGCGGGTCTGAATATCCCACGAt 20727

⊕ ZFN-unknown-SP-5-86
 20836 aAGCAGCGCCCCACCGGGCGCGc 20860

20836 tTCGTCGCGGGGTGCGCCCGCGc 20860

⊕ ZFN-unknown-SP-6-92
 21158 cGTCCTCCGACAGCAAGGGGCGTCg 21183
 21158 gCAGGAGGCTGTCGTTCCCGGCAGc 21183

⊕ ZFN-unknown-SP-5-87
 21159 gTCCTCCGACAGCAAGGGGCGTCg 21183
 21159 cAGGAGGCTGTCGTTCCCGGCAGc 21183

⊕ ZFN-unknown-SP-5-88
 21162 cTCCGACAGCAAGGGGCGCTCGGTc 21186
 21162 gAGGCTGTCTTCCCGGCAGCAg 21186

⊕ ZFN-unknown-SP-5-89
 21207 gAACACCAAGCTGCATGTAGCGGTc 21231
 21207 cTTGTGGTCGACGTACATCGCCAGc 21231

⊕ ZFN-unknown-SP-5-90
 21210 cACCAAGCTGCATGTAGCGGTCTGTAg 21234
 21210 gTGGTCGACGTACATCGCCAGCATc 21234

⊕ ZFN-unknown-SP-5-91
 21501 cTCCAGCAGCACCAGGTAGATGAAc 21525
 21501 gAGGTGCTCTGGTCCATCTACTTg 21525

⊕ ZFN-unknown-SP-7-82
 21529 gTGCGGCCGACCAAGGCTGTTGAGGCCg 21555
 21529 cACGCCGGCTGGTCCGACAACCTCCGc 21555

⊕ ZFN-unknown-SP-7-83
 21563 gCGCGACCACCTCGGCCGGCGGACgt 21589
 21563 cGGCTGGTGAGAGCCGGCCGCGTGCa 21589

⊕ ZFN-unknown-SP-7-84
 21617 gCCCCACCTCCTCCGTCTCGGCGGCCt 21643
 21617 cCGGGTGGAGGAGGCAGAGCCGCCGga 21643

⊕ ZFN-unknown-SP-6-93
 21618 gCCCACTCCTCCGTCTCGGCGGCCt 21643
 21618 cGGGTGGAGGAGGCAGAGCCGCCGga 21643

⊕ ZFN-unknown-SP-7-85
 21629 cCGTCTCGGCGGCTGGGCCGACAGGg 21655
 21629 gGCAGAGCCGCCGACCGGCTGTCCc 21655

⊕ ZFN-unknown-SP-6-94
 21894 gCGCGACCCCGCGCCTCGGCGGCGt 21919
 21894 cGGCTGGGGCGCGGACGCGGCGCa 21919

⊕ ZFN-unknown-SP-6-95
 21897 cGACCCCGCGCCTGCGGCCGTCGg 21922
 21897 gCTGGGGGGCGGACGCGGCGCAGCc 21922

⊕ ZFN-unknown-SP-6-96
 21903 cCGGCGCTGCGGCGCGTCGGCGTGCg 21928
 21903 gCGCGGACCGGCGCAGCCGCAGc 21928

⊕ ZFN-unknown-SP-5-92
 21903 cCGGCGCTGCGCGCGCTCGGGCGTc 21927
 21903 gCGCGGACCGGCGCAGCCGCACg 21927

⊕ ZFN-unknown-SP-7-86
 21911 gCGCGCGTGGCGGTGCGACGCGTCCg 21937
 21911 cGGCGCGACCGCACGCTGCGCAGc 21937

⊕

ZFN-unknown-SP-6-97
 22214 cCGTCACGACCGTTGTGTAGATGACc 22239
 22214 gCAGTGCTGGCAACACATCTACTGg 22239

+ ZFN-unknown-SP-6-98
 22328 tGGCAACGACCTCCGCGAAGGAGACc 22353
 22328 aCCGTTGCTGGAGGCGCTTCCTCTGg 22353

+ ZFN-unknown-SP-7-87
 22337 cCTCCGGGAAGGAGACCGTCGACGAGa 22363
 22337 gGAGGCGCTTCCTCTGGCAGCTGCTCt 22363

+ ZFN-unknown-SP-5-93
 22395 cGCCTCCAGCTCCCCGAAGAAGGTg 22419
 22395 gCGGAGGTGGAGGGCTTCTTCCAc 22419

+ ZFN-unknown-SP-7-88
 22452 gCCCGCCGGCCCCCGGCGGCGCAGGGc 22478
 22452 cGGGCGGCCGGGGCCGCGCTCCGg 22478

+ ZFN-unknown-SP-5-94
 22462 cCCCGCGGCGCAGGSCCGCCTGCa 22486
 22462 gGGGCGCGCGGTCTCCGGCGGACGt 22486

+ ZFN-unknown-SP-6-99
 22605 cACCAGCTGCGCGTTGGCGGTGGCt 22630
 22605 gTGGTCGACGCGCAACCGCCACCGCa 22630

+ ZFN-unknown-SP-5-95
 22605 cACCAGCTGCGCGTTGGCGGTGGCg 22629
 22605 gTGGTCGACGCGCAACCGCCACCGc 22629

+ ZFN-unknown-SP-5-96
 22665 gCGCAGCATCAACGCGTCGACGCGGg 22689
 22665 cGCGTCGTAGTTGCGCAGCTGCGCc 22689

+ ZFN-unknown-SP-5-97
 22668 cAGCATCAACGCGTCTGACGCGGCCc 22692
 22668 gTCGTAGTTGCGCAGCTGCGCGGg 22692

+ ZFN-unknown-SP-7-89
 22800 tTCCACCTGCACGATGAGACGGTGGa 22826
 22800 aAGGTGGACGTGCTACTCTGCCACCTt 22826

+ ZFN-unknown-SP-6-100
 23192 cGCACTCGTCATCCCCGATGGGACGc 23217
 23192 gCGTGAGCAGTAGGGGTACCTTGCg 23217

+ ZFN-unknown-SP-5-98
 23195 aCTCGTCATCCCCGATGGGACGCGCg 23219
 23195 tGAGCAGTAGGGGCTACCTTGCg 23219

+ ZFN-unknown-SP-5-99
 23198 cGTCATCCCCGATGGGACGCGGGc 23222
 23198 gCAGTAGGGCTACCTTGCg 23222

+ ZFN-unknown-SP-7-90
 23240 aGGCCGCGCCGGGCGCCGACGTCGCGc 23266
 23240 tCCGGCGCGCCCGCGGCTGCAGCGGg 23266

+ ZFN-unknown-SP-6-101
 23258 aCGTCGCGCCCGGGGCGCGGCGGCGg 23283
 23258 tGCAGCGCGGGCCCCGCGCGCGCGc 23283

+ ZFN-unknown-SP-7-91

23318 tCGTCTCGGCCATCTGC**GTCTGGGG**c 23344
 23318 a**GCAGAGCCG**GTAGACGCAGACCCcg 23344

⊕ ZFN-unknown-SP-6-102
 23393 cCCCCGCGACCTCTTA**TGCGAAGGC**g 23418
 23393 g**GGGGCGCTG**GAGAATACGCTTCCGc 23418

⊕ ZFN-unknown-SP-6-103
 23396 cCGCGACCTCTTATGC**GAAGCGAA**c 23421
 23396 g**CGCTGGAG**AATACGCTTCCGCTtg 23421

⊕ ZFN-unknown-SP-7-92
 23516 tGGCGCGCGCCGTGTAC**GCCCGGGT**g 23542
 23516 a**CCGCCGCCG**GCACATGCGCGCCACc 23542

⊕ ZFN-unknown-SP-6-104
 23591 tGGCGCGCGCCCGTAT**GGCGATGCC**a 23616
 23591 a**CCGCCGCCG**GGCATAACCGCTACGGt 23616

⊕ ZFN-unknown-SP-7-93
 23615 cACACGCCACGCTAATC**GCCGGAAAC**g 23641
 23615 g**TGTGGGTG**CGATTAGCGGCTTTGc 23641

⊕ ZFN-unknown-SP-5-100
 23637 aAACGTCTGCGCGT**GGCTGTTGCA**g 23661
 23637 t**TTGCAGACG**CGCACCGACAACGTc 23661

⊕ ZFN-unknown-SP-5-101
 23832 tCGTATCGTCGGTCC**GGTGCGGGC**a 23856
 23832 a**GCATAGCAG**CCAGGCCACGCCGt 23856

⊕ ZFN-unknown-SP-5-102
 23964 gCTCATCTGCCTGAC**GACGCTGTT**c 23988
 23964 c**GAGTAGACG**GACTGCTGCGACAAg 23988

⊕ ZFN-unknown-SP-5-103
 24540 tTACGACACCGTGGA**GGGGTATGC**g 24564
 24540 a**ATGCTGTGG**CACCTCCCATACGc 24564

⊕ ZFN-unknown-SP-7-94
 24655 aTACTTCGGCGCGCGT**TGTGTGTGT**t 24681
 24655 t**ATGAAGCCG**CGCGCACACACACAa 24681

⊕ ZFN-unknown-SP-5-104
 24655 aTACTTCGGCGCGCG**TGTGTGTGT**g 24679
 24655 t**ATGAAGCCG**CGCGCACACACACa 24679

⊕ ZFN-unknown-SP-6-105
 24992 cCACGACGTCAAATTC**GTGGCGGT**c 25017
 24992 g**GTGCTGCAG**TTTAAGCACCCGCCAg 25017

⊕ ZFN-unknown-SP-7-95
 24992 cCACGACGTCAAATTCG**TGGCGGTCA** 25018
 24992 g**GTGCTGCAG**TTTAAGCACCCGCCAg 25018

⊕ ZFN-unknown-SP-6-106
 25022 aGACGACCTCCCCGCC**GTGGTGGT**g 25047
 25022 t**CTGCTGGAG**GGGCGGCAGCCACCac 25047

⊕ ZFN-unknown-SP-7-96
 25022 aGACGACCTCCCCGCC**TGGTGGTG**a 25048
 25022 t**CTGCTGGAG**GGGCGGCAGCCACCAct 25048

⊕ ZFN-unknown-SP-6-107
 25028 cTCCCCGCCGTGGT**GGTATGAC**g 25053
 25028 g**GAGGGCGCG**CAGCCACCACTACTGc 25053

⊕ ZFN-unknown-SP-6-108
 25031 cCCCGCGTCGGTGGT**GATGACGTT**g 25056
 25031 g**GGGCGGCA**gCCACCACTACTGCAAc 25056

⊕ ZFN-unknown-SP-7-97
 25243 gGGCCCCGCCAGGCCCG**GGGGCGCT**c 25269
 25243 c**CGGGGCGG**TCCGGGCCGCCCGCAg 25269

⊕ ZFN-unknown-SP-5-105
 25303 cCTCCGGCCCGCGC**GGTGCCTGC**c 25327
 25303 g**GAGGCGCG**GC CGGCCACGGACg 25327

⊕ ZFN-unknown-SP-7-98
 25331 gAACGTCACCAAGTGC**GTTCAGGG**g 25357
 25331 c**TTGCAGTG**TCCACGCCAACGTCCCc 25357

⊕ ZFN-unknown-SP-6-109
 25553 cACCAGCGCCGATCC**GGGGCGGAG**c 25578
 25553 g**TGGTCGCG**GTAGGCCCGCCTCg 25578

⊕ ZFN-unknown-SP-5-106
 25556 cAGCGCCCGATCCG**GGCGGAGCA**t 25580
 25556 g**TGGGGGCT**AGGCCCGCCTCGTa 25580

⊕ ZFN-unknown-SP-7-99
 25575 gAGCATCGCCTTTTTC**GCCGGCGG**Cg 25601
 25575 c**TCGTAGCG**AAAAAGCGGCCCGCc 25601

⊕ ZFN-unknown-SP-6-110
 25990 gCCCGCGTCGGCGTC**GTCTGTGAC**g 26015
 25990 c**GGGCGGCA**gCCGAGCAGCAACTGc 26015

⊕ ZFN-unknown-SP-6-111
 25993 cGGCGTCGGCGTCGT**GTGACGCC**c 26018
 25993 g**CGCAGCCG**CAGCAGCAACTGCGg 26018

⊕ ZFN-unknown-SP-5-107
 26108 gTCCAGCCGAGGCT**GGCGTTGTG**g 26132
 26108 c**AGGTGGCG**TCCGACCGCAACAc 26132

⊕ ZFN-unknown-SP-7-100
 26164 gCGCGCCCCACCGAGC**GTGGAGGCG**g 26190
 26164 c**GCGGGGGT**GGCGTCGACCTCCGc 26190

⊕ ZFN-unknown-SP-5-108
 26166 gCGCCCCACCGAGC**GTGGAGGCG**g 26190
 26166 c**GCGGGGTG**CGTCGCACCTCCGc 26190

⊕ ZFN-unknown-SP-7-101
 26166 gCGCCCCACCGAGCGT**GGAGGCGGT**c 26192
 26166 c**GCGGGGTG**CGTCGCACCTCCGCCAg 26192

⊕ ZFN-unknown-SP-6-112
 26168 gCCCCACCGAGCGT**GAGGCGGTC**g 26193
 26168 c**GGGTGGCG**TCGCACCTCCGCCAGc 26193

⊕ ZFN-unknown-SP-5-109
 26168 gCCCCACCGAGCGT**GAGGCGGT**c 26192
 26168 c**GGGTGGCG**TCGCACCTCCGCCAg 26192

⊕ ZFN-unknown-SP-6-113
 26171 cACCGCAGCGTGGAG**GCGGTGTC**a 26196
 26171 g**GTGGCTCG**CACCTCCGCCAGAt 26196

⊕

ZFN-unknown-SP-7-102
 26224 gGCAGTCGGCTGGTTTTCCTCGCCg 26250
 26224 cCGTCAGCCGGACCAAACGCAGCGGc 26250

⊕ ZFN-unknown-SP-7-103
 26278 gGGCGACGGCTTCGGCGGCGGACGGGg 26304
 26278 cCGCTGCGGAAGCCGCCCTGCCCc 26304

⊕ ZFN-unknown-SP-7-104
 26281 cGACGGCTTCGGCGGCGGACGGGGGGg 26307
 26281 gCTGCCAAGCCGCCCTGCCCCCc 26307

⊕ ZFN-unknown-SP-7-105
 26284 cGGCTTCGGCGCGGACGGGGGGGCc 26310
 26284 gCGAAGCGGCCGCCTGCCCCCGCg 26310

⊕ ZFN-unknown-SP-6-114
 26287 cTTCGGCGCGGACGGGGGGCGCGg 26312
 26287 gAAGCCCGCCCTGCCCCCGCGCc 26312

⊕ ZFN-unknown-SP-5-110
 26363 cGCCTCCAGCGACACGACGAGGAg 26387
 26363 gCGGAGGTCCTGTGCTGCTCCCTc 26387

⊕ ZFN-unknown-SP-5-111
 26366 cTCCAGCGACGACGAGGAGCAc 26390
 26366 gAGGTCGCTGTGCTGCTCCCTCGTg 26390

⊕ ZFN-unknown-SP-7-106
 26473 aCGTTTCGCCAAGATATTGGGGGGCa 26499
 26473 tGCAAGGCGGTTCTATACCCCCCGt 26499

⊕ ZFN-unknown-SP-7-107
 26474 cGTTTCGCCAAGATATGGGGGGCAg 26500
 26474 gCAAAGCGGTTCATACCCCCCGTc 26500

⊕ ZFN-unknown-SP-6-115
 26474 cGTTTCGCCAAGATATTGGGGGGCa 26499
 26474 gCAAAGCGGTTCATACCCCCCGt 26499

⊕ ZFN-unknown-SP-5-112
 26519 cGCCGACCACATCGGGTCGGGTCc 26543
 26519 gCGGCTGGTCTAGCCAGCCCCAGg 26543

⊕ ZFN-unknown-SP-7-108
 26626 aGGCCTCAGAGAGGGCCGGGACGCGg 26652
 26626 tCCGAGTCTCTCCGGCCCTGCGCc 26652

⊕ ZFN-unknown-SP-7-109
 26885 gAGCAGCCGAAGAGCTCGAGGGCGGAa 26911
 26885 cTGTCGGCTTCTCGAGTCCCGCCTt 26911

⊕ ZFN-unknown-SP-6-116
 26976 cAGCAGCGGCCTCAGCTCGGCGGCa 27001
 26976 gTGTCGCGGGAGTCGAGCCGCGTt 27001

⊕ ZFN-unknown-SP-7-110
 26979 cAGCGCCTCAGCTCGGGCGGCAGCa 27005
 26979 gTGCCCCGAGTCGAGCCCGCGTCGct 27005

⊕ ZFN-unknown-SP-6-117
 26994 gGGCGGACGACACCCGACGACAGa 27019
 26994 cCGCCGTCGCTGTGGCTGCTGTCTt 27019

⊕ ZFN-unknown-SP-5-113
 27306 cAGCGTCTGCCCCAGGGCGTAGAa 27330

27306 gTCGCAGACGGGGTCCCGCATCTct 27330

⊞ ZFN-unknown-SP-5-114

27612 tCGCAGCATCACGAGGACGTTGGCg 27636
27612 aGCGTCGTAGTGCTCCTGCAACCGc 27636

⊞ ZFN-unknown-SP-7-111

27722 cCGTCGCGACGGAGGGGTTGGTCGCGc 27748
27722 gGCAGCGCTGCCTCCCCACCAAGCGc 27748

⊞ ZFN-unknown-SP-7-112

27847 aAGCCGCGGATGTCGTGGGTGCGGCCg 27873
27847 tTCGGCGCTACAGCACCCACGCCGg 27873

⊞ ZFN-unknown-SP-5-115

27884 cGCACTCCCCACGAGCAGGGTCGc 27908
27884 gCGTGAGGGGGTGCTCGTCCACGc 27908

⊞ ZFN-unknown-SP-7-113

27887 aCTCCCCACGAGCAGGGTCCGCGACga 27913
27887 tGAGGGGGTCTCGTCCAGCGCTGct 27913

⊞ ZFN-unknown-SP-6-118

27992 aCCCCCGAGCCCCCGAAGCTGCGg 28017
27992 tGGGGGGGTTCGGGGGCTTCGACGCc 28017

⊞ ZFN-unknown-SP-7-114

28307 aGACGGCGCCGTCTCGGGGGAGGGc 28333
28307 tCTGCCCGCGCAGAGCCCCCTCCCCg 28333

⊞ ZFN-unknown-SP-6-119

28307 aGACGGCGCCGTCTCGGGGAGGGg 28332
28307 tCTGCCCGCGCAGAGCCCCCTCCCc 28332

⊞ ZFN-unknown-SP-6-120

28310 cGGCGCCGTCTCGGGGGAGGGGCCg 28335
28310 gCCGCGGCAAGAGCCCCCTCCCCGg 28335

⊞ ZFN-unknown-SP-5-116

28780 tCACGCCCTCCCGGTGTAGCTGCAg 28804
28780 aGTGCGGGAGGGGCACATCGACGtc 28804

⊞ ZFN-unknown-SP-5-117

28837 gCGTCTCGGCCAAACGTCGGCGCAg 28861
28837 cGCAGAGCCGGTTTGACGCCGCTc 28861

⊞ ZFN-unknown-SP-7-115

28851 cGTCGGCGCAGGGCCCGGTGGCTGGCg 28877
28851 gCAGCCGGTCCCGGCGACCGACCGc 28877

⊞ ZFN-unknown-SP-5-118

29043 gGGCGTCGACGAGGCCTCGGCGGGc 29067
29043 cCCGAGCTGCTCCGACGCCGCCc 29067

⊞ ZFN-unknown-SP-6-121

29043 gGGCGTCGACGAGGCGTCGGCGGGc 29068
29043 cCCGAGCTGCTCCGACGCCGCCg 29068

⊞ ZFN-unknown-SP-7-116

29180 aGCACTCGCCGCTTCTCGGCCGTCg 29206
29180 tCGTGAGCGCGAGAAAGAGCCGCGAGc 29206

⊞ ZFN-unknown-SP-5-119

29234 tGCCGGCGCACTCAGGGGGCGTGa 29258
29234 aCGGCCGCTTGAGTCCCCCGCAct 29258

⊞

ZFN-unknown-SP-6-122
 29294 tGGCCCCCGAGCTGGT**gCGGGcGGTg** 29319
 29294 a**cCGGGGGCT**CGACCACGCCGCCAc 29319

+ ZFN-unknown-SP-5-120
 29451 gGACTTCGCCAGTT**gTTGAAAAc** 29475
 29451 **cCTGAAGCGG**GTCAACAACTTTtG 29475

+ ZFN-unknown-SP-7-117
 30002 gTACGCCTTCCTCCCG**cGGTGCCTGTt** 30028
 30002 **cATGCGGAAG**GAGGGGCCACGGACAa 30028

+ ZFN-unknown-SP-7-118
 30104 aGCCCCCCCCCGCCAT**ggcggggggg** 30130
 30104 t**cggggggggg**GGCGGTACCGCCCCCc 30130

+ ZFN-unknown-SP-6-123
 30105 gCCCCCCCCCGCCAT**ggcggggggg** 30130
 30105 **cggggggggg**GCGGTACCGCCCCCc 30130

+ ZFN-unknown-SP-7-119
 30105 gCCCCCCCCCGCCAT**gCGGGGGGga** 30131
 30105 **cggggggggg**GCGGTACCGCCCCCt 30131

+ ZFN-unknown-SP-6-124
 30106 cCCCCCCCCCGCCAT**gCGGGGGGga** 30131
 30106 g**gggggggg**GCGGTACCGCCCCCt 30131

+ ZFN-unknown-SP-5-121
 30106 cCCCCCCCCCGCCAT**gCGGGGGGg** 30130
 30106 g**gggggggg**GCGGTACCGCCCCCc 30130

+ ZFN-unknown-SP-6-125
 30108 cCCCCCGCCATGG**CGGGGGGAAg** 30133
 30108 g**gggggggg**GGTACCGCCCCCCTt 30133

+ ZFN-unknown-SP-5-122
 30109 cCCCCCGCCATGG**CGGGGGGAAg** 30133
 30109 g**gggggggg**GTTACCGCCCCCCTt 30133

+ ZFN-unknown-SP-5-123
 30292 cCAGCAGACCTCGT**GCAGGTGGGc** 30316
 30292 g**GTGCTGCTg**GAGCAGTCCACCCg 30316

+ ZFN-unknown-SP-7-120
 30295 cGACGACCTCGTGCAG**GTGGGCCGTga** 30321
 30295 g**CTGCTGGAG**CAGTCCACCCGGCAc 30321

+ ZFN-unknown-SP-7-121
 30460 gACAGGCCTCCGCCACG**gCGGGGGCGc** 30486
 30460 **cTGTCCGAG**GCGGTGCCGCCCGCGg 30486

+ ZFN-unknown-SP-6-126
 30460 gACAGGCCTCCGCCAC**GGCGGGGGCg** 30485
 30460 **cTGTCCGAG**GCGGTGCCGCCCGCGc 30485

+ ZFN-unknown-SP-6-127
 30463 aGGCCTCCGCCACGG**CGGGGGCGCg** 30488
 30463 t**cCGGAGGCG**GTGCCGCCCGCGCg 30488

+ ZFN-unknown-SP-5-124
 30464 gGCCTCCGCCACGG**CGGGGGCGCg** 30488
 30464 **cCGGAGCGG**TGCCGCCCGCGCg 30488

+ ZFN-unknown-SP-7-122

30531 gCGCCGCCTCTCCCGGGGGTTCGGT^a 30557
 30531 cGGGCGGAGGAGGGCCCCAGCC^at 30557

⊕ ZFN-unknown-SP-5-125
 30531 gCGCCGCCTCTCCCGGGGGTTCGg 30555
 30531 cGGGCGGAGGAGGGCCCCAGCc 30555

⊕ ZFN-unknown-SP-6-128
 30532 cCGCGCTCTCCCGGGGGTTCGGT^a 30557
 30532 gCGGCGGAGGAGGGCCCCAGCC^at 30557

⊕ ZFN-unknown-SP-7-123
 30691 aGCACGCCCCGATTTCGGGGCCGTg^t 30717
 30691 tCGTGGGGGCCCTAAGCCCCGGCAC^a 30717

⊕ ZFN-unknown-SP-7-124
 30760 gCTCGTCCGCGAGCTGTTCGGCGGGcg 30786
 30760 cGAGCAGGGCTCGACAAGCCGCCGc 30786

⊕ ZFN-unknown-SP-6-129
 30794 gGTTTCTCTCCGGGGGGAGGGCAGCT^t 30819
 30794 cCAAAGGAGCCCCCTCCGTCGA^a 30819

⊕ ZFN-unknown-SP-6-130
 30811 aGGCAGCTTCCAGGTGGCCGAAGGc^t 30836
 30811 tCCGTCCAGGCTCCACCGGCTCCG^a 30836

⊕ ZFN-unknown-SP-7-125
 30842 gCACAGCAGCGGGTCCGGGGTGGc^t 30868
 30842 cGTGTCGTGCCCCAGGCCCCACGC^a 30868

⊕ ZFN-unknown-SP-6-131
 30945 gGCAGGCGAGCGCCTTGGGCCGCG^t 30970
 30945 cCGTCCGCGTCGCGGAACCCGGCGC^a 30970

⊕ ZFN-unknown-SP-6-132
 31410 gTCCGACGGCACGCGCGACGGGGTc^t 31435
 31410 cAGGCTGCCGTGCGCGCTGCCCCAG^a 31435

⊕ ZFN-unknown-SP-6-133
 31680 gCGTGTCTCCGCTGGTGCTGTAGTA^g 31705
 31680 cGCACAGAGCGACCACGACATCA^tc 31705

⊕ ZFN-unknown-SP-7-126
 31918 cCCTAGCCACTCGCTCTGGTGGGGGc 31944
 31918 gGGATCGGTGAGCGAGACCACCCCGg 31944

⊕ ZFN-unknown-SP-7-127
 32074 gGGCTGCAGCACGGGGCGCGGTGGc^g 32100
 32074 cCGGACGTCTGCCCCGGCCCCACGc 32100

⊕ ZFN-unknown-SP-6-134
 32128 aCGCAGCAGCGCCGTCTGGGCCGCCg 32153
 32128 tCGGTCTGCGCGCAGACCCGGCGCc 32153

⊕ ZFN-unknown-SP-6-135
 32131 cAGCAGCGCCGTCTGGGCCGGGGg 32156
 32131 gTCGTGCGGCGAGACCCGGCGCCCCc 32156

⊕ ZFN-unknown-SP-6-136
 32134 cAGCGCGCTCTGGGCCGCGGGGAC^a 32159
 32134 gTCGCGGCGAGACCCGGCGCCCCGT^t 32159

⊕ ZFN-unknown-SP-7-128
 32190 cACAGGCTCCGTGAGGGCCGTGGCC^a 32216
 32190 gTGTCCGAGGCAGTCCGGCACCGG^t 32216

+ ZFN-unknown-SP-5-126
 32224 gGACAGCCGCGGGGGCGGGCGCGt 32248
 32224 cCTGTCTGGCGCCCCCGCCGCGCa 32248

+ ZFN-unknown-SP-6-137
 32259 aCGCCACCGAATTCTCGTAGGAGACg 32284
 32259 tCGCGTGGCTTAAGAGCATCCTCTGc 32284

+ ZFN-unknown-SP-7-129
 32259 aCGCCACCGAATTCTCGTAGGAGACg 32285
 32259 tCGCGTGGCTTAAGAGCATCCTCTGc 32285

+ ZFN-unknown-SP-5-127
 32767 gAGCTGCTCCTCCGGGAGGATGGGg 32791
 32767 cTCGACGAGGAGGCCCTCTACCCc 32791

+ ZFN-unknown-SP-7-130
 32770 cTGCTCCTCCGGGAGATGGGGGGTc 32796
 32770 gACGAGGAGGCCCTCTACCCCCCAg 32796

+ ZFN-unknown-SP-5-128
 32770 cTGCTCCTCCGGGAGATGGGGGGg 32794
 32770 gACGAGGAGGCCCTCTACCCCCc 32794

+ ZFN-unknown-SP-7-131
 32820 cGGCCCCGCCCGAGACCAGGACGCCc 32846
 32820 gCGGGGCGGGCTCTGGCTCCTGCGGa 32846

+ ZFN-unknown-SP-7-132
 32889 gGGCCGCCGCTCCGTCCGCGCGCGGg 32915
 32889 cCGGGCGGGGAGGGCAGCGCCGCGCc 32915

+ ZFN-unknown-SP-7-133
 32892 cGCGCGCCTCCGTCCGCGCGCGGGAg 32918
 32892 gCGGGCGGAGGCAGCGCCGCGCCCTc 32918

+ ZFN-unknown-SP-6-138
 32893 cGCCGCTCCGTCCGCGCGCGGGAg 32918
 32893 gCGGGCGGAGCAGCGCCGCGCCCTc 32918

+ ZFN-unknown-SP-6-139
 32896 cGCCTCCGTCCGCGCGCGGAGCCg 32921
 32896 gCGGAGGCAgCGCCGCCGCTCGGc 32921

+ ZFN-unknown-SP-7-134
 32901 cGTCGCGGCGGCGGGA GCCGCGGc 32927
 32901 gCAGCGCCGCCGCCCTCGGCGGGg 32927

+ ZFN-unknown-SP-5-129
 32923 gGCCCCAGCCGCGCGACGTAGCGCa 32947
 32923 cCGGGGGTCCGCCGCTGCATCGct 32947

+ ZFN-unknown-SP-6-140
 33117 cGCACGCGACCGCAGGGAGACGAac 33142
 33117 gCGTCCGCTGCCGTCCCTCTGCTTg 33142

+ ZFN-unknown-SP-6-141
 33216 cCGCATCCGCCGGCAGCTAGGCGGCa 33241
 33216 gCGGTAGGCGGCCGTGCATCCGCCGt 33241

+ ZFN-unknown-SP-7-135
 33216 cCGCATCCGCCGGCAGCTAGGCGGCAa 33242
 33216 gCGGTAGGCGGCCGTGCATCCGCCGt 33242

+

ZFN-unknown-SP-6-142
 33217 cGCATCCGCCGGCACG**TAGGCGGCA**a 33242
 33217 g**CGTAGGCGG**CCGTGCATCCGCCGTt 33242

⊕ ZFN-unknown-SP-5-130
 33217 cGCATCCGCCGGCAC**GTAGGCGGC**a 33241
 33217 g**CGTAGGCGG**CCGTGCATCCGCCGt 33241

⊕ ZFN-unknown-SP-6-143
 33220 aTCCGCCGGCACGTAG**GCGGCAAAC**g 33245
 33220 t**AGGCGGCGG**TGCATCCGCCGTTTGe 33245

⊕ ZFN-unknown-SP-6-144
 33309 tCGCGGCCGCCACC**GTCSGGGCG**g 33334
 33309 a**GCGCGGGG**GGGTGGCAGCCCCGc 33334

⊕ ZFN-unknown-SP-6-145
 33312 cGGCGGCCACCCTC**GGGGCGGCC**g 33337
 33312 g**CGGGCGGG**TGGCAGCCCCGCCGGe 33337

⊕ ZFN-unknown-SP-5-131
 33313 gGCCGCCCACCGTC**GGGGCGGCC**g 33337
 33313 c**GGCGGGGT**GGCAGCCCCGCCGGe 33337

⊕ ZFN-unknown-SP-6-146
 33315 cGCCCCACCGTCGGG**GCGGCCGC**g 33340
 33315 g**GCGGGGTG**CAGCCCCGCCGGCGg 33340

⊕ ZFN-unknown-SP-7-136
 33534 gCGCGTCCTCGGGGCC**CGGGGCGCA**c 33560
 33534 c**GCGCAGGAG**CCCCGGGCGCCGCGTg 33560

⊕ ZFN-unknown-SP-6-147
 33755 gTACAACCTCCGCGGG**GCCGCCGAC**g 33780
 33755 c**ATGTTGAG**GCGCCCCGGCGGCTGc 33780

⊕ ZFN-unknown-SP-6-148
 33758 cAACCTCCGCGGGGCC**GCGGACGAG**c 33783
 33758 g**TTGGAGGCG**CCCCGGGCTGCTCg 33783

⊕ ZFN-unknown-SP-5-132
 33806 aTGCACGACACAT**GCCGCGGGT**g 33830
 33806 t**ACGCTGCTG**GTGTAGGGGCCCAc 33830

⊕ ZFN-unknown-SP-5-133
 33809 cGACGACCACATGCC**GCGGGTGGT**g 33833
 33809 g**CTGCTGGTG**TACGGCGCCACCAc 33833

⊕ ZFN-unknown-SP-5-134
 33932 gCCCGACTCCTTCAT**GCAGGAGAT**c 33956
 33932 c**GGGCTGAGG**AAGTAGCTCCTCTAg 33956

⊕ ZFN-unknown-SP-6-149
 33992 gCCCGTCCTAACAAAG**TCGGCGGGG**g 34017
 33992 c**GGGCAAGAT**TGTTTCAGCCGCCCc 34017

⊕ ZFN-unknown-SP-5-135
 33992 gCCCGTCCTAACAA**ATCGGCGGG**g 34016
 33992 c**GGGCAAGAT**TGTTTCAGCCGCCc 34016

⊕ ZFN-unknown-SP-6-150
 34121 cTCCGGCACCGCATC**GCGGTCGTC**g 34146
 34121 g**AGGCCGTG**CCGTAGCGCCAGCAc 34146

⊕ ZFN-unknown-SP-6-151
 34124 cGGCACGGCATCGCG**GTCTCGG**a 34149

34124 gCCGTGGCCGTAGCGCCAGCAGCCct 34149

⊕ ZFN-unknown-SP-7-137
 34127 cACCGGCATCGCGGTCTCGGGAGGTa 34153
 34127 gTGGCCGTAGCGCCAGCAGCCCTCCat 34153

⊕ ZFN-unknown-SP-5-136
 34244 gCACGCCTCGCCCAAGGTGCTGGCg 34268
 34244 cGTGTCGGAGCGGGTCCACGACCGc 34268

⊕ ZFN-unknown-SP-6-152
 34249 gCCTCGCCAGGTGCTGGCGCTGCAc 34274
 34249 cGGAGCGGTCCACGACCGACGTg 34274

⊕ ZFN-unknown-SP-6-153
 34313 cAACAGCAGCCAGGACTCGGCCGTGg 34338
 34313 gTTGTCGTGgTCTCTGAGCCGGCac 34338

⊕ ZFN-unknown-SP-6-154
 34367 gCACCGCATCTTGGCCTCGGCGGGGg 34392
 34367 cGTGGCGTAGGACCGGAGCCGCCCCc 34392

⊕ ZFN-unknown-SP-7-138
 34547 gCTCGTCTCCGTGACGGTGGCGCTGCa 34573
 34547 cGAGCAGAGGCACTGCCACGCGGACgt 34573

⊕ ZFN-unknown-SP-7-139
 35101 cGCCTGCCCCCGCCTCAGGGGTAGCGg 35127
 35101 gCGGACGGGGCGGAGTCCCATCGCc 35127

⊕ ZFN-unknown-SP-7-140
 35107 cCCCCGCCTCAGGGGTAGCGGATAACc 35133
 35107 gGGGGCGGAGTCCCCATCGCTATTGg 35133

⊕ ZFN-unknown-SP-7-141
 35244 gACGAGCGCTCGTAAAGCGGCAGCCt 35270
 35244 cTGGTCGCGGAGCATTTGCGCGTCGga 35270

⊕ ZFN-unknown-SP-5-137
 36122 gCGCAACGCAACCGGACGATGATg 36146
 36122 cGGGTTCGTGTTGGCCCTGCTACTAc 36146

⊕ ZFN-unknown-SP-6-155
 36160 gGGCACCGACCGTGTGGAGAGGGGg 36185
 36160 cCCGTGGCTGGCACACCTCTCCCCc 36185

⊕ ZFN-unknown-SP-6-156
 36195 gCTCAGCAGCAGCACGGGAGGTCt 36220
 36195 cGAGTCGTCTGCGTGCCCTCCAGa 36220

⊕ ZFN-unknown-SP-6-157
 36519 gGGCCTCCCCATCGCGGGCGTGCGt 36544
 36519 cCCGAGGGGTAGCGCCCGCAGCGCa 36544

⊕ ZFN-unknown-SP-5-138
 36520 gGCCTCCCATCGCGGGCGCTGCGt 36544
 36520 cCGGAGGGTAGCGCCCGCAGCGCa 36544

⊕ ZFN-unknown-SP-7-142
 36831 gCGACGCCACGGGTGCGCGTGCCGg 36857
 36831 cGCTGCGGTGCCAACCGGACCGGc 36857

⊕ ZFN-unknown-SP-6-158
 36832 cGACGCCACGGGTGCGCGTGCCGg 36857
 36832 gCTGCGGTGCCAACCGGACCGGc 36857

⊕

ZFN-unknown-SP-7-143
 36852 tGGCCGCGAAGGGCCGC**GCCGGGTCg**c 36878
 36852 a**C CGCGCCTT**CCGCGCGGCCAGCg 36878

+ ZFN-unknown-SP-6-159
 36921 tGTCCCCGCGTACAC**GCCGCCGGC**c 36946
 36921 a**CAGGGGGGg**CATGTGCGCGGCCGg 36946

+ ZFN-unknown-SP-5-139
 37051 gCGCCGGCGACCTG**GGCGCAGCC**a 37075
 37051 **cGGGCGCCg**TGACCCGCGTCGGt 37075

+ ZFN-unknown-SP-7-144
 37307 aCCCCCGCCCCGTTTC**GTGGCGGGC**c 37333
 37307 t**GGGGGGGg**GGCAAAGCACCGCCGg 37333

+ ZFN-unknown-SP-6-160
 37308 cCCCCCGCCCCGTTTC**GTGGCGGGC**c 37333
 37308 g**GGGGGGCGg**GCAAAGCACCGCCGg 37333

+ ZFN-unknown-SP-7-145
 37356 aCGCCTCCGACGCGCG**TCGGAAAC**a 37382
 37356 t**CGGGAGGCT**GCGCGGAGCCTTTGt 37382

+ ZFN-unknown-SP-6-161
 37357 cGCCTCCGACGCGCG**TCGGAAAC**a 37382
 37357 g**CGGAGGCTg**GCGCGGAGCCTTTTg 37382

+ ZFN-unknown-SP-6-162
 37524 cCCCCCGCGGCTCTC**GCGGCGGTg**c 37549
 37524 g**GGGGCGGGg**CGAGAGCGCCGCACg 37549

+ ZFN-unknown-SP-5-140
 37771 gTGACGCGCCCCGTC**GAAATGCG**c 37795
 37771 **cACGTGCGGg**GCGAGCTTCTACGg 37795

+ ZFN-unknown-SP-7-146
 37818 tGGGCCCCGCGTCGGG**GCCCGGGAG**c 37844
 37818 a**CCCGGGGCG**CAGCCCGCGGCCTCg 37844

+ ZFN-unknown-SP-6-163
 37914 cGACGACGACGCGCC**GTGTGGA**c 37939
 37914 g**CTGCTGCTg**GCGGGCAACACCTg 37939

+ ZFN-unknown-SP-5-141
 38218 gTGACGACCGGCC**GTCTTGCG**g 38242
 38218 **cACGTCTCG**GCCGGCAGCAACGCc 38242

+ ZFN-unknown-SP-7-147
 38253 cCGTCGCCAGTTGCAC**GCCGCCCGt**c 38279
 38253 g**GCA GCGGTg**CAACGTGCGGCGGCGCa 38279

+ ZFN-unknown-SP-5-142
 38355 cGCAGTCCACACGA**GGGCGGCA**g 38379
 38355 g**CGTCAGGT**GTGCTCCCGCGGTc 38379

+ ZFN-unknown-SP-5-143
 38692 aAACACCGCCGGTA**GCTGCGGTC**c 38716
 38692 t**TGTGGGGg**CCCATCGACGCCAGg 38716

+ ZFN-unknown-SP-7-148
 38730 gGACGGCGGCTATGGTA**GCCGGCC**a 38756
 38730 **cTGCCCGCG**ATACCATCGGCCCGGt 38756

+ ZFN-unknown-SP-5-144

38746 aGCCGGCGCCATGGC**GTGGCGCC**a 38770
 38746 t**CGGCCCGG**TACCGCACCGCCGt 38770

⊕ ZFN-unknown-SP-6-164
 38907 cGTCGGCCACGCCCG**GAA**GA**GTC**g 38932
 38907 g**CAGCCGGT**CGGGCGCTTCTTCAg 38932

⊕ ZFN-unknown-SP-7-149
 39008 gCGACCCACCGACCCG**GCCGTGGG**g 39034
 39008 **cGCTGGGTG**cCTGGGCGGCACCCGc 39034

⊕ ZFN-unknown-SP-7-150
 39072 tGTCCCGCGCGGGCCG**GCCGGGGCC**g 39098
 39072 a**CAGGCGCG**CCCCGGCGGCCCGGc 39098

⊕ ZFN-unknown-SP-6-165
 39120 tCGCGGCCTCGACGGG**GTCTGTGTT**c 39145
 39120 a**GCGCCGGA**CTGCCCCAGCACCAAg 39145

⊕ ZFN-unknown-SP-7-151
 39146 aGCCCCCGACGGCCG**GTCTGATGTT**c 39172
 39146 t**CGGGGGCT**GCCGGCGCAGCTACAAg 39172

⊕ ZFN-unknown-SP-6-166
 39147 cGCCCCCGACGGCCG**GTCTGATGTT**c 39172
 39147 g**CGGGGGCT**CCGGCGCAGTACAAg 39172

⊕ ZFN-unknown-SP-6-167
 39306 gTCCCCGGCGTGCG**GCGGAAGC**c 39331
 39306 c**CAGGGCGC**CACGCGCGCTTCGg 39331

⊕ ZFN-unknown-SP-7-152
 39547 cTCCTCCTGCATATCCA**GCA**GGTGGCg 39573
 39547 g**AGGAGGAC**CTATAGTCTCCACCGc 39573

⊕ ZFN-unknown-SP-5-145
 39610 cACCAGCGCCGTGAC**GAGTTTGG**c 39634
 39610 g**TGGTCGCG**CACTGCTCCAACCGg 39634

⊕ ZFN-unknown-SP-5-146
 39755 gCCCGCCGCGCGTG**TCGGCGTGC**g 39779
 39755 c**CGGCGGGG**CGCACAGCCGACGc 39779

⊕ ZFN-unknown-SP-7-153
 39789 gCACGGCCACGGACGGC**TGCGTCGCC**g 39815
 39789 c**GTGCCGGT**cCTGCCGACGACGGGc 39815

⊕ ZFN-unknown-SP-5-147
 39789 gCACGGCCACGGACG**CTGCGTGC**c 39813
 39789 c**GTGCCGGT**cCTGCCGACGACGg 39813

⊕ ZFN-unknown-SP-6-168
 39799 gGACGGCTGCGTCGCC**GTGTCAGG**t 39824
 39799 c**CTGCCGAC**CGCGGCACAGTCCa 39824

⊕ ZFN-unknown-SP-7-154
 39973 gGGCAACAGCAGGGCCA**GGG**GAGGGc 39999
 39973 c**CCGTTGTCT**TCCCGTCCCTCCGg 39999

⊕ ZFN-unknown-SP-5-148
 40635 gCACAACGCTCACC**GCCGGCGA**c 40659
 40635 c**GTGTTGCG**AGTGCGGCGCCTg 40659

⊕ ZFN-unknown-SP-6-169
 40704 gACCAACAACAGGCGA**GGG**GAGGAAa 40729
 40704 c**TGGTTGTTCT**CCGCTCCCTCCTTt 40729

⊕ ZFN-unknown-SP-6-170
 40970 cGCCACCCACATGGC**GGCGCCGGC**c 40995
 40970 g**CCGGTGGGT**TACCGCCGCGGCCGg 40995

⊕ ZFN-unknown-SP-5-149
 40971 cGCCACCCACATGGC**GGCGCCGGC**c 40995
 40971 g**CCGTGGGTG**TACCGCCGCGGCCGg 40995

⊕ ZFN-unknown-SP-5-150
 41850 cGCCCTCCCCCGGG**GCTGATGAC**g 41874
 41850 g**GGGAGGGG**GCGCCGACTACTGc 41874

⊕ ZFN-unknown-SP-7-155
 41851 gCCCTCCCCCGGGGCT**GATGACGTG**g 41877
 41851 **CGGAGGGGG**GCGCCGACTACTGCACc 41877

⊕ ZFN-unknown-SP-5-151
 41853 cTCCCCCGCGGGCT**GATGACGTG**g 41877
 41853 g**GAGGGGGG**CCCGACTACTGCACc 41877

⊕ ZFN-unknown-SP-6-171
 42007 cGTTTGCCCAAGCACC**GACGCCGCG**a 42032
 42007 g**CAAACGGGT**TCGTGGCTGCGGGCt 42032

⊕ ZFN-unknown-SP-7-156
 42059 cGGCCACAACCTACGC**GCGGGCGGC**a 42085
 42059 g**CCGGTGTG**GGATGCGCGCCCGCgt 42085

⊕ ZFN-unknown-SP-5-152
 42222 aCCCTGCACACCGG**SACGTTGTG**t 42246
 42222 t**GGGACGTGG**TGGCCCTGCAACACa 42246

⊕ ZFN-unknown-SP-7-157
 42266 aAACCGCGCCTACTTT**GTGTGCGGGG**g 42292
 42266 t**TTGGCGCGG**ATGAAACACAGCCCCc 42292

⊕ ZFN-unknown-SP-7-158
 42269 cCGCGCTACTTTGTGT**GCGGGGGT**c 42295
 42269 g**GCGCGGATC**AAACACAGCCCCCAg 42295

⊕ ZFN-unknown-SP-6-172
 42269 cGCGCCTACTTTGTGT**TGCGGGGG**t 42294
 42269 g**GCGCGGATG**AAACACAGCCCCCA 42294

⊕ ZFN-unknown-SP-7-159
 42732 cCCCGGTCCCGAGCTC**GCTGGAGCC**c 42758
 42732 g**GGCCGAGG**GCTCGAGCGACCTCGGg 42758

⊕ ZFN-unknown-SP-7-160
 43035 gCCCCCCGCTCAGGA**GCTGTGGTG**g 43061
 43035 **cGGGGGGCG**AGTCCCTCGACACCACc 43061

⊕ ZFN-unknown-SP-5-153
 43067 cTACGCGGCGACCG**GGCGCTGGA**g 43091
 43067 g**ATGCGGCGC**GTGCCCGCGACCTc 43091

⊕ ZFN-unknown-SP-5-154
 43070 cGCCGGCGACCGGG**GCTGGAGGA**g 43094
 43070 g**CGGCGCGTG**GCCCGCGACCTCt 43094

⊕ ZFN-unknown-SP-7-161
 43253 tCTCATCCACGGGAGC**GGCGCATGT**c 43279
 43253 a**GAGTAGGTG**GCCCTCGCGGTACAg 43279

⊕

ZFN-unknown-SP-6-173
 43342 cCGCGCCGACGAAACC**GACGTGGC**c 43367
 43342 g**GCGGGGCT**GCTTGGCTGCAACCGg 43367

⊕ ZFN-unknown-SP-6-174
 43385 gTTCCGCGACGCGCTG**GCGGCCGGG**a 43410
 43385 c**AAGGGCTG**CGCGACCGCCGGCCct 43410

⊕ ZFN-unknown-SP-7-162
 43443 cTCCCGCCCAAGGACGT**GCCGGTGGG**g 43469
 43443 g**AGGGCGGT**TCCTGCACGGCCACCCc 43469

⊕ ZFN-unknown-SP-7-163
 43515 tCGCAACGCCTGACCCC**GGGGGGT**Cc 43541
 43515 a**GCGTTGGG**ACTGGGGCCCCCAGg 43541

⊕ ZFN-unknown-SP-7-164
 43562 gTACCTCGCGCGTTCC**TGGCGTGT**t 43588
 43562 c**ATGGAGCCG**CGCAAGGACCCGCACa 43588

⊕ ZFN-unknown-SP-7-165
 43949 aACAGACCGCGACACG**GAGGAGTC**g 43975
 43949 t**TGTCTGGG**CCCTGTGCCTCCCTCAGc 43975

⊕ ZFN-unknown-SP-7-166
 43952 aGACCGCGACACGGAG**GGAGTCGGT**t 43978
 43952 t**CTGGCGCT**GTGCCTCCCTCAGCCAa 43978

⊕ ZFN-unknown-SP-7-167
 44020 tCGCGTCTCCACAAAA**TGGGACGCA**c 44046
 44020 a**CCGCAGAGC**TGTTTTTACCCTGCGTg 44046

⊕ ZFN-unknown-SP-5-155
 44022 gCGTCTCCACAAAA**TGGGACGCA**c 44046
 44022 c**GAGAGGTG**TTTTTACCCTGCGTg 44046

⊕ ZFN-unknown-SP-5-156
 44092 aGACCCCCAGCGCG**GACGCGGCC**a 44116
 44092 t**GCTGGGGT**CGCGCTGCGCCGt 44116

⊕ ZFN-unknown-SP-7-168
 44244 cACCGGCCCTGGGCCA**GCTGCTGTT**g 44270
 44244 g**TGGCCGGG**ACCCGTCGACGACAAc 44270

⊕ ZFN-unknown-SP-6-175
 44303 tGACCTCCCCGGCCGG**GGTGTAGCG**c 44328
 44303 a**CTGGAGGG**CCGGCCACATCGCg 44328

⊕ ZFN-unknown-SP-6-176
 44333 aCACGGCCCCACGAG**GCCGAGGTC**g 44358
 44333 t**GTGCCGGG**GTGCTCCGGCTCCAGc 44358

⊕ ZFN-unknown-SP-6-177
 44336 cGGCCCCACGAGGCC**GAGGTCGCG**c 44361
 44336 g**CCGGGGTG**CTCCGGCTCCAGCGg 44361

⊕ ZFN-unknown-SP-5-157
 44453 gGACGTCAACGCCCG**TAACTTGT**a 44477
 44453 c**TCGAGTTG**CGGGCATTCGAACat 44477

⊕ ZFN-unknown-SP-5-158
 44569 gGGCCGTACACTGG**TGGTGCC**t 44593
 44569 c**CCGGCGATG**TGACCACCCACCGGa 44593

⊕ ZFN-unknown-SP-6-178
 44907 gCGTTCCGCTGCTCG**GCCGAGGGC**g 44932

44907 cGCAAGGGCGACGAGCCGGCTCCCGc 44932

⊞ ZFN-unknown-SP-6-179
 44910 tTCCCGCTGCTCGGCCGAGGGCGCGc 44935
 44910 aAGGGCGACCGAGCCGGCTCCCGCGc 44935

⊞ ZFN-unknown-SP-7-169
 45062 gGGCCACCGCCATAGGCCGCGGGc 45088
 45062 cCGGTGGCGCGGTATCCGGCGCCCGc 45088

⊞ ZFN-unknown-SP-6-180
 45183 cTCCAGCCGCAAGGCGGCGCGCGGGt 45208
 45183 gAGGTGCGCGTCCGCCCGCGGCCa 45208

⊞ ZFN-unknown-SP-6-181
 45500 aGCCGGCCACCCGCCGAGGGCGTCc 45525
 45500 tCGGCCGGTGCGCGGCTCCCGCAg 45525

⊞ ZFN-unknown-SP-5-159
 45522 gTCCAGCGCCGAGCCGTTGTCGGCg 45546
 45522 cAGGTGCGCGCTCGGCAACAGCCGc 45546

⊞ ZFN-unknown-SP-7-170
 45788 aGACGCCACGGGCCACGTCGAGGCCg 45814
 45788 tCTGCGGGTGCGCGGTGCACTCCGc 45814

⊞ ZFN-unknown-SP-6-182
 45798 gGGCCACGTGAGGCCGACGGGGAGa 45823
 45798 cCGGTGCAGCTCCGGCTGCCCTCt 45823

⊞ ZFN-unknown-SP-5-160
 45992 cCCCGTCGTCTCCCGGGGAACgt 46016
 45992 gGGCAGCAGAGGGGCGCCCTTGCa 46016

⊞ ZFN-unknown-SP-5-161
 46062 gACCGCAACAGCGCGGAGGCGCCg 46086
 46062 cTGCGCGTTGTCGCGCTCCGCGGc 46086

⊞ ZFN-unknown-SP-5-162
 46065 cCGCAACAGCGCGGAAGCGCCGGg 46089
 46065 gCGGTGTGCGCGCTCCGCGCCc 46089

⊞ ZFN-unknown-SP-5-163
 46115 tCACCTCGCGGGGGGACGGGACgt 46139
 46115 aGTGAGCCGCCCCCTGCCCTGCa 46139

⊞ ZFN-unknown-SP-7-171
 46336 aAGCGTCCGCGCTGGGGGTCCTGGCg 46362
 46336 tTCGCAGGGCGACCCCCAGCGACCGc 46362

⊞ ZFN-unknown-SP-6-183
 46541 tCCCGGCTGCCAGTCCGAGATGGGg 46566
 46541 aGGGCCGACGGTCAGGCGTCTACCCc 46566

⊞ ZFN-unknown-SP-7-172
 46713 gCCCCGTCCGTTTTCGGTGGGGTGc 46739
 46713 cGGGCGAGCCAAAAGCCACCCACg 46739

⊞ ZFN-unknown-SP-5-164
 46713 gCCCCGTCCGTTTTCGGTGGGGt 46737
 46713 cGGGCGAGCCAAAAGCCACCCCa 46737

⊞ ZFN-unknown-SP-5-165
 47136 gCGTGTCTCGATGCGGGGCAGAGa 47160
 47136 cGCACAGGAGCTACGCCCGTCTCt 47160

⊞

ZFN-unknown-SP-6-184
 47160 aCCCCGCGCCGTCTCGGGTCTGGGg 47185
 47160 tGGGGCGCGCAGGAGCCCCAGCCCc 47185

+ ZFN-unknown-SP-6-185
 47163 cCGCGCCGTCTCGGGGTCTGGGCGGc 47188
 47163 gGGCGCGCAGGAGCCCCAGCCCCGg 47188

+ ZFN-unknown-SP-7-173
 47230 cCGCCACCTCCCGCCGCCTGCAGGTa 47256
 47230 gCGGTGGAGGGCGGCGGACGTCCAt 47256

+ ZFN-unknown-SP-6-186
 47231 cGCCACCTCCCGCCGCCTGCAGGTa 47256
 47231 gCGGTGGAGGGCGGCGGACGTCCAt 47256

+ ZFN-unknown-SP-6-187
 47652 cCCCGGCCGATATCTCGCGCGGTc 47677
 47652 gGGGCGGCTATAGAGCGGCGCAGg 47677

+ ZFN-unknown-SP-5-166
 47740 aGTCATCGGCTCGGGSACGTAGAGg 47764
 47740 tCAGTAGCGGAGGCCCTGCATCTGc 47764

+ ZFN-unknown-SP-6-188
 47785 gGCCTCCATCAGCTGC GCGGAGGTGg 47810
 47785 cCGGAGGTAGTCGACGCGCTCCACc 47810

+ ZFN-unknown-SP-5-167
 47788 cTCCATCAGTGC GCGGAGGTGg 47812
 47788 gAGGTAGTCCACGCGCTCCACCACc 47812

+ ZFN-unknown-SP-6-189
 47788 cTCCATCAGTGC GCGGAGGTGg 47813
 47788 gAGGTAGTCCACGCGCTCCACCACc 47813

+ ZFN-unknown-SP-5-168
 47954 gCCTGACCGAACGCA GGCCTGCTt 47978
 47954 cGGA CTGGCTTGCCTCCGCGCAGa 47978

+ ZFN-unknown-SP-5-169
 48018 gTTCGCCCAGAGGT GCGGGA GTTc 48042
 48018 cAAGCGGGCTCTCCACGCCCTCAAg 48042

+ ZFN-unknown-SP-6-190
 48042 cAACGCCACCAGGATTGTGGAACTGc 48067
 48042 gTTGCGGTGCTCCTAAACACTTGCg 48067

+ ZFN-unknown-SP-6-191
 48120 gCGCGTCACCTTAATA TCGGAAGTGg 48145
 48120 cGGCAGTGG AATTATACGCTTCACc 48145

+ ZFN-unknown-SP-7-174
 48304 cAGCTGCGCCACTCCCTGAAGCTGCTg 48330
 48304 gTCGACGCGGTGAGGGACTTCGACGAc 48330

+ ZFN-unknown-SP-5-170
 48309 gCGCCACTCCCTGAAGCTGCTGCAg 48333
 48309 cCGGTGAGGGACTTCGACGACGTc 48333

+ ZFN-unknown-SP-6-192
 48444 cTCCGGCAACATCACC GCGGCCGTGc 48469
 48444 gAGGCCGTGTAGTGGCGCGGCAc 48469

+ ZFN-unknown-SP-7-175

48450 cAACATCACCGCGGCCG**TGCGGATG**Ct 48476
 48450 g**TGTAGTGG**CGCCGGCACGCCTACGa 48476

⊕ ZFN-unknown-SP-7-176
 48623 gCGACCCCCCTCCCCA**GGGGTCGTA**g 48649
 48623 c**GCTGGGGGG**GAGGGTCCCCAGCATc 48649

⊕ ZFN-unknown-SP-6-193
 48624 cGACCCCCCTCCCCA**GGGGTCGTA**g 48649
 48624 g**CTGGGGGG**AGGGTCCCCAGCATc 48649

⊕ ZFN-unknown-SP-7-177
 48626 aCCCCCTCCCCAGGG**GTCTAGGC**g 48652
 48626 t**GGGGGGAG**GGTCCCCAGCATCCGc 48652

⊕ ZFN-unknown-SP-6-194
 48627 cCCCCCTCCCCAGGG**GTCTAGGC**g 48652
 48627 g**GGGGGAGG**GGTCCCCAGCATCCGc 48652

⊕ ZFN-unknown-SP-7-178
 48629 cCCCTCCCCAGGG**GTCTAGGCGTC**g 48655
 48629 g**GGGAGGGC**TCCCAGCATCCGCAGc 48655

⊕ ZFN-unknown-SP-6-195
 48630 cCCCTCCCCAGGG**GTCTAGGCGTC**g 48655
 48630 g**GGGAGGGT**CCCCAGCATCCGCAGc 48655

⊕ ZFN-unknown-SP-7-179
 48630 cCCCTCCCCAGGG**GTCTAGGCGTC**g 48656
 48630 g**GGGAGGGT**CCCCAGCATCCGCAGc 48656

⊕ ZFN-unknown-SP-7-180
 48650 gCGTCGCTGCGAGGG**TGGGGTGTG**c 48676
 48650 c**GACGGAAG**CCTCCACCCCCACAGc 48676

⊕ ZFN-unknown-SP-6-196
 48650 gCGTCGCTGCGAGGG**TGGGGTGTG**g 48675
 48650 c**GACGGAAG**CCTCCACCCCCACAc 48675

⊕ ZFN-unknown-SP-5-171
 48650 gCGTCGCTGCGAGGG**TGGGGGTG**t 48674
 48650 c**GACGGAAG**CCTCCACCCCCACa 48674

⊕ ZFN-unknown-SP-5-172
 48898 cGACAACAGCCCTG**GGTGTGAC**c 48922
 48898 g**CTGTTGTCG**GGGACCCACAGCTg 48922

⊕ ZFN-unknown-SP-5-173
 49156 gTTCAACATCCCCG**GAGACGGC**g 49180
 49156 c**AAGTTGTAG**GGGGCCCTCTGCCGc 49180

⊕ ZFN-unknown-SP-5-174
 49159 cAACATCCCCCGGA**GACGGCGGC**g 49183
 49159 g**TGTAGGG**GCCCTCTGCCGCCc 49183

⊕ ZFN-unknown-SP-7-181
 49173 aGACGGCGGCGAGCGG**GCGGCAGTG**c 49199
 49173 t**CTGCCGCCG**CCTCGCCGCCGTACg 49199

⊕ ZFN-unknown-SP-7-182
 49200 tCGAGCCCAAGCGACCC**GCGGCCCGG**g 49226
 49200 a**CGTCCGGT**CGCGTGCGCCGGCGCc 49226

⊕ ZFN-unknown-SP-5-175
 49205 gCCAGCGCACCGG**GCGCGGCGG**g 49229
 49205 c**GGGTGCGCT**GGCGCGGCGCGCc 49229

⊕ ZFN-unknown-SP-7-183
 49286 aTACGCCCGATCGAGCA**GCA****GGT****GCA**t 49312
 49286 t**ATGCGGGCT**AGCTCGTCGTCCACGTa 49312

⊕ ZFN-unknown-SP-7-184
 49341 aGACCGCGCGCGCCGCG**GCCGAAGAG**g 49367
 49341 t**CTGGCGCGG**CCGCGCGCGGCTTCTCc 49367

⊕ ZFN-unknown-SP-7-185
 49344 cCGCGCGCGCGCGGCC**GAA****GAG****GCG**g 49370
 49344 g**GCGCCGCGG**CGCGCGGCTTCTCCGc 49370

⊕ ZFN-unknown-SP-7-186
 49350 cGGCCGCGCGCGAAGAG**GCGGATGCC**g 49376
 49350 g**CCGGCGCGG**GCTTCTCCGCCTACGGc 49376

⊕ ZFN-unknown-SP-6-197
 49350 cGGCCGCGCGCGAAGAG**GGCGGATGC**c 49375
 49350 g**CCGGCGCGG**GCTTCTCCGCCTACGg 49375

⊕ ZFN-unknown-SP-7-187
 49353 cCGCGCGCGAAGAGCG**GATGCCGCG**c 49379
 49353 g**GCGCGGCT**TCTCCGCCTACGGCGg 49379

⊕ ZFN-unknown-SP-7-188
 49428 cGCCACCGCGGGCCCC**GCCGCCGCG**g 49454
 49428 g**CGGGTGCGG**CCCGGGCGCGGCGCc 49454

⊕ ZFN-unknown-SP-5-176
 49438 gGGCCCCGCCCGCG**GGA****GAT****GGA**g 49462
 49438 c**CGGGGGCGG**CGGCGCCTCTACCTc 49462

⊕ ZFN-unknown-SP-6-198
 49440 gCCCCGCCCGCGCGGA**GATGGA****GGT**t 49465
 49440 c**GGGGCGCGG**GCGCCTCTACCTCCAa 49465

⊕ ZFN-unknown-SP-7-189
 49734 aCTATTCCGCCTTCGAG**TGCCCGCTG**c 49760
 49734 t**GATAAGGCG**GAAGCTCACGCGGCAGg 49760

⊕ ZFN-unknown-SP-5-177
 49944 aGTTTCGGCGGCCG**GCGGCCGCT**a 49968
 49944 t**CAAGCGCGG**CCGGCCGCCGCGAt 49968

⊕ ZFN-unknown-SP-6-199
 50098 cGACGACGTCAACCGC**GCCGCCGCG**g 50123
 50098 g**CTGCTGCAC**TGGCGCGGCGGCGGc 50123

⊕ ZFN-unknown-SP-6-200
 50101 cGACGTCAACCGCGCC**GCCGCCGCG**t 50126
 50101 g**CTGCAGTTG**GCGCGCGGCGGCGCa 50126

⊕ ZFN-unknown-SP-6-201
 50140 cCACAACTCTTCTCT**TGGGAGGAC**c 50165
 50140 g**GTGTTGGAG**AAGGACACCTCCTGg 50165

⊕ ZFN-unknown-SP-5-178
 50140 cCACAACTCTTCTCT**GTGGGAGGA**c 50164
 50140 g**GTGTTGGAG**AAGGACACCTCCTg 50164

⊕ ZFN-unknown-SP-5-179
 50254 cCTCGAACC GCCT**GCA****GCT****GGG**c 50278
 50254 g**GAGCTGTTG**GCGGACGTCGACCCg 50278

⊕

ZFN-unknown-SP-7-190
 50257 cGACAACCGCCTGCAGC**TGGGCATG**Ct 50283
 50257 g**CTGTTGGCG**GACGTCGACCCGTACGa 50283

⊕ ZFN-unknown-SP-5-180
 50356 cGGCGACAACAACCT**GGAGGGCGT**g 50380
 50356 g**CCGCTGTG**TTGGACCTCCGCGAc 50380

⊕ ZFN-unknown-SP-5-181
 50359 cGACAACAACCTGGA**GGCGCTGTG**c 50383
 50359 g**CTGTTGTG**GACCTCCGCGACAcg 50383

⊕ ZFN-unknown-SP-7-191
 50480 gGGCGGCCACTGGCGTC**GACGAGGCC**c 50506
 50480 **cCGCCGGTG**ACCGCAGCTGCTCCGcg 50506

⊕ ZFN-unknown-SP-6-202
 50584 cAAACACCAACCCCT**GTGGGGGAG**a 50609
 50584 g**TGTTGTGG**TGGGACACCCCTCt 50609

⊕ ZFN-unknown-SP-5-182
 50584 cAAACACCAACCCCT**TGTGGGGAG**g 50608
 50584 g**TGTTGTGG**TGGGACACCCCTc 50608

⊕ ZFN-unknown-SP-5-183
 50587 aAACACCAACCCCTGT**GGGGGAGAT**t 50611
 50587 t**TTGTGGTG**GGACACCCCTCTAa 50611

⊕ ZFN-unknown-SP-7-192
 50917 cAAACACGGCGGGGCC**CGTGGGTGG**t 50943
 50917 g**TTGTTGCC**CCCGGGCACCCACCCa 50943

⊕ ZFN-unknown-SP-7-193
 50989 cCCCCCCCCTTCCCGT**TTTGTTTGT**t 51015
 50989 g**GGGGGGGG**AAGGGCAAAACAAACa 51015

⊕ ZFN-unknown-SP-7-194
 51062 gCGCCTCTGCCCGACCG**GGCGGTGCC**c 51088
 51062 c**GCGGAGACG**GGCTGGCCCGCACGGg 51088

⊕ ZFN-unknown-SP-6-203
 51205 aGACCACCGCGCTCGG**TGCGAGGTG**g 51230
 51205 t**CTGGTGCG**CGAGCCACGCTCCACc 51230

⊕ ZFN-unknown-SP-5-184
 51247 gGTCAACGACCTCG**GGGGCCGT**t 51271
 51247 c**CAGTTGCTG**GGAGCCCCCGGCAa 51271

⊕ ZFN-unknown-SP-6-204
 51517 cTACGACACCAAGCTA**GACGCGGCC**a 51542
 51517 g**ATGCTGTG**TCGGATCTGCGCCGgt 51542

⊕ ZFN-unknown-SP-6-205
 51564 aCCCGCGCAGCGCGGA**GGGGGTGCG**a 51589
 51564 t**GGGCCGCTG**CGCGCTCCCCACGct 51589

⊕ ZFN-unknown-SP-5-185
 51676 cGCCGTCAACAACAT**GATGCTGCG**t 51700
 51676 g**CGGCAGTTG**TTGTACTACGACGCa 51700

⊕ ZFN-unknown-SP-7-195
 51870 gCGTTCCCGCGCCGAG**GTCCCGTC**c 51896
 51870 c**GCAAGGGCG**CGCGTCCAGCGGCAGg 51896

⊕ ZFN-unknown-SP-7-196
 52242 tCGCCGCCGACCGCCAG**GCGGGTGGG**c 52268

52242 aGCGGCGGCTGGCGGTCCGCCACCCg 52268

⊞ ZFN-unknown-SP-6-206

52243 cGCCGCCGACCGCAGGCGGGTGGGc 52268
52243 gCGGCGGCTGGCGGTCCGCCACCCg 52268

⊞ ZFN-unknown-SP-5-186

52312 gCGCCGCCACGAGGTGGTGGAGCAg 52336
52312 cGCGGCGGCTGTGCTCCACCTCGTc 52336

⊞ ZFN-unknown-SP-7-197

52313 cGCCGCCGACGAGGTGGAACAGCCg 52339
52313 gCGGCGGCTGTGCTCCACCTCGTGGc 52339

⊞ ZFN-unknown-SP-5-187

52568 tACCACCACCCACGCAACACCG 52592
52568 aTGGTGGTGGGGTGCCTCTGTGCc 52592

⊞ ZFN-unknown-SP-5-188

52664 gGGCCTCCTCTATCCGGGGCGGTc 52688
52664 cCGGAGGAGATAGGCCCGCCAGg 52688

⊞ ZFN-unknown-SP-5-189

52762 cGCCACCCCCCTCCGGCCCGCCg 52786
52762 gCGGCTGGGGGAGAGCGGCGCGGc 52786

⊞ ZFN-unknown-SP-7-198

52763 gCCACCCCCCTCCGCCGCCCGGga 52789
52763 cGGGTGGGGGAGGCGCGGCGGCCct 52789

⊞ ZFN-unknown-SP-7-199

52869 gCGCGGCCACGTGAACGTGGACACGg 52895
52869 cGGCCGGGTGCACTTGACCTGTGCc 52895

⊞ ZFN-unknown-SP-5-190

53171 aGACTACCACGGGAGGGGGTGTGg 53195
53171 tCTGATGGTCCCTCCCCACACc 53195

⊞ ZFN-unknown-SP-6-207

53420 cTCCGGCTCGTCCTCTGTGTGGAgc 53445
53420 gAGGCCGGAGCAGGAGCAACACTCg 53445

⊞ ZFN-unknown-SP-5-191

53423 cGGCTCGTCCTCGTTGTGGAGCGg 53447
53423 gCGGAGCAGGAGCAACACCTCGCc 53447

⊞ ZFN-unknown-SP-5-192

53426 cTCGTCTCTGTTGTGGAGCGAGa 53450
53426 gGAGCAGGAGCAACACCTCGCCTc 53450

⊞ ZFN-unknown-SP-7-200

53644 tCCCCGCCACGCCCGGGGTCCGAa 53670
53644 aGGGGCGGTCGGGGGCCCAACCTt 53670

⊞ ZFN-unknown-SP-6-208

53645 cCCGCCCACGCCCGGGGTCCGAa 53670
53645 gGGCGGGTCCGGGGGCCCAACCTt 53670

⊞ ZFN-unknown-SP-6-209

53924 gCCCCGGAACATGGCGGCGTTGGCg 53949
53924 cGGGGCGCTGTACCGCCGAACCGc 53949

⊞ ZFN-unknown-SP-7-201

54187 tAGCCCCGCCGAAGATGAAGTAGCc 54213
54187 aTCGGGGCGGCTTCTACTTCATCGCg 54213

⊞

ZFN-unknown-SP-6-210
 54188 aGCCCCCGCCGAAGATGAAGTAGCGc 54213
 54188 tCGGGGGCGGCTTCTACTTCATCGGc 54213

+ ZFN-unknown-SP-5-193
 54342 cGTCCCCGGCCGGAGGCTGACGGCg 54366
 54342 gCAGGGGCGGCGGCTCGACTGCGCg 54366

+ ZFN-unknown-SP-5-194
 54447 gCTCACCCGCGGCCGACGGGTGGCg 54471
 54447 cGAGTGGCGGCGGCTGCCACCGc 54471

+ ZFN-unknown-SP-5-195
 54451 aCCCGCCGGCCGACGGTGGCGGAGg 54475
 54451 tGGGCGGCGGCTGTGCCACCGCTCc 54475

+ ZFN-unknown-SP-7-202
 54451 aCCCGCCGGCCGACGGTGGCGGAGGCG 54477
 54451 tGGGCGGCGGCTGTGCCACCGCTCCGc 54477

+ ZFN-unknown-SP-5-196
 54454 cGCCGGCCGACGGTGCGGAGCGCga 54478
 54454 gCGGCGCGGTGCCACCGCTCCGct 54478

+ ZFN-unknown-SP-6-211
 54669 gGGCGCTCCCGCAGTGGCGCGGGCG 54694
 54669 cCCGCGGAGGGCGTCAACGCGCCCGc 54694

+ ZFN-unknown-SP-6-212
 54672 cGCCTCCCGCAGTGGCGCGGGCGTGg 54697
 54672 gCGGAGGGCGTCACCGCGCCCGCACc 54697

+ ZFN-unknown-SP-6-213
 55160 aCCCGTCGACCTGCTTGAAGCGGTCg 55185
 55160 tCGGCAGCTGGACGAACCTCGCCAGc 55185

+ ZFN-unknown-SP-5-197
 55209 gTGGACCCCTCCCGGTAGCCGTa 55233
 55209 cACGCTGGGAGGGCCATCGGCATt 55233

+ ZFN-unknown-SP-6-214
 55298 gCGGTCACCTCCTCGACGATGCAg 55323
 55298 cGCCAGGTGGAGGAGCTGCTACGTc 55323

+ ZFN-unknown-SP-6-215
 55304 cCACCTCCTCGACGATGCAGTTGACc 55329
 55304 gGTGGAGGAGCTGTACGTCAACTGg 55329

+ ZFN-unknown-SP-6-216
 55349 aCGCTCCACCCGCGAGGGGTTGTAc 55374
 55349 tCGGGAGGTGGGCGCTCCCAACATg 55374

+ ZFN-unknown-SP-5-198
 55350 cGCCTCCACCCGCGAGGGGTGTGAc 55374
 55350 gCGGAGGTGGCGCTCCCAACATg 55374

+ ZFN-unknown-SP-7-203
 56012 cCGCGCCGAGGCGCGGGGGCCGCGc 56038
 56012 gCGGCGGGCTCCGCGCCCCCGCGGc 56038

+ ZFN-unknown-SP-7-204
 56145 cGCCGCCGCTAGTCTGGGGCGAGgt 56171
 56145 gCGGCGGGCGATCAGACCCCGCTCCa 56171

+ ZFN-unknown-SP-5-199

56266 gGCCACCAGCGGACAGTCGGAGTTg 56290
 56266 cCGGTGGTGGCCTGTACGCTCAAc 56290

⊕ ZFN-unknown-SP-5-200
 56386 gACCGACGCAAGAGTGTGGTGCGcg 56410
 56386 cTGGCTGGGTTCCTACACCACCGc 56410

⊕ ZFN-unknown-SP-6-217
 56386 gACCGACGCAAGAGTGTGGTGCGca 56411
 56386 cTGGCTGCGTTCCTACACCACCGct 56411

⊕ ZFN-unknown-SP-6-218
 56523 aACCCCCCGCGCCCATGATGAAGCGcg 56548
 56523 tTGGGGGGCGCGGTACTACTTCGCc 56548

⊕ ZFN-unknown-SP-6-219
 56526 cCCCCGCGCCATGATGAAGCGGGcg 56551
 56526 gGGGGCGCGGGTACTACTTCGCCGc 56551

⊕ ZFN-unknown-SP-6-220
 56793 cCGCGCCCGCGTCAGGGCGCAGAAg 56818
 56793 gCGCGGGCGCGCAGTCCGCGCTTtc 56818

⊕ ZFN-unknown-SP-5-201
 56797 gCCCCCGCTCAGGGCGCAGAAAGCGc 56821
 56797 cGGGGCGCAGTCCCGCGTCTTCGCg 56821

⊕ ZFN-unknown-SP-7-205
 56841 tGGCGACCGCGGCGAAGGTCGCGGGCa 56867
 56841 aCGGCTGGCGCGGCTTCAGCGCCCGt 56867

⊕ ZFN-unknown-SP-5-202
 56863 gGGCAGCACCTCGCCGTGGACGCTg 56887
 56863 cCGGTGCTGGAGCGGCACCTGCGAc 56887

⊕ ZFN-unknown-SP-6-221
 56986 gCGCTCCCGCACGTCCGCGCGGGCCc 57011
 56986 cGCGAGGGCGGTGAGGCGCCGCGGg 57011

⊕ ZFN-unknown-SP-7-206
 57066 gCTCCCGTCCTCGCTCGCGGCGTCc 57092
 57066 cGAGGGGCGAGGAGGCGCCCGAGg 57092

⊕ ZFN-unknown-SP-6-222
 57103 cTCCGCCCCCCTCCTCCGCGGCGcg 57128
 57103 gGAGGCGGGGGGAGGAGGCGCCCGc 57128

⊕ ZFN-unknown-SP-5-203
 57104 cTCCGCCCCCCTCCTCCGCGGCGcg 57128
 57104 gAGGGGGGGGGAGGAGGCGCCCGc 57128

⊕ ZFN-unknown-SP-6-223
 57106 cGCCCCCCTCCTCCGCGCGGGCCc 57131
 57106 gCGGGGGGGAGGAGGCGCCCGGg 57131

⊕ ZFN-unknown-SP-6-224
 57147 cGGCCCCCGGTGCGCGCCGCGGc 57172
 57147 gCCGGGGGGCCAGCGCGGCGCGGc 57172

⊕ ZFN-unknown-SP-7-207
 57175 cAGCCGCGCCAGCAGCGGGCGACGcg 57201
 57175 gTCGGCGCGGTCGTGCGCCGCTCGcg 57201

⊕ ZFN-unknown-SP-6-225
 57204 cCTCGTCGCACTGCTCGGGCTGACg 57229
 57204 gGAGCAGCGTGACGAGCCCCGACTGc 57229

⊕ ZFN-unknown-SP-6-226
 57232 cCGCCGAGCAGCGGC**GTCTCAGG**t 57257
 57232 g**CGCGCTCG**TCGCCGAGCAGTCCa 57257

⊕ ZFN-unknown-SP-7-208
 57238 cAGCAGCGCGTCGTCA**GGTGGTGGT**c 57264
 57238 g**TCTCTGCCG**CAGCAGTCCACCACCAg 57264

⊕ ZFN-unknown-SP-5-204
 57241 cAGCGGCGTCGTCA**GTGGTGGT**Cg 57265
 57241 g**TGCGCCGAG**CAGTCCACCACCAGc 57265

⊕ ZFN-unknown-SP-5-205
 57244 cGGCGTCGTCA**GGTGGTGGT**Ag 57268
 57244 g**CGCGAGCAG**TCCACCACCAGCATc 57268

⊕ ZFN-unknown-SP-5-206
 57870 aACAGACCGCGCACG**GGTGGGACG**G 57894
 57870 t**TGTCTGGCG**CGTGCCACCCCTGCCc 57894

⊕ ZFN-unknown-SP-7-209
 57870 aACAGACCGCGCACGG**GTGGACGGG**t 57896
 57870 t**TGTCTGGCG**CGTGCCACCCCTGCCCa 57896

⊕ ZFN-unknown-SP-7-210
 57873 aGACCGCGCACGGGT**GGACGGTCTG**c 57899
 57873 t**CTGGCGCGT**GCCACCCCTGCCAGCg 57899

⊕ ZFN-unknown-SP-7-211
 58075 gTACGTCTGCAGCCG**ATCTGCTGGT**g 58101
 58075 c**ATGCAGACG**TCGGCCTAGACGACCAc 58101

⊕ ZFN-unknown-SP-7-212
 58078 cGTCTGCAGCCGATCT**GCTGGTGGT**a 58104
 58078 g**CAGACGTCTG**GCCTAGACGACCACAt 58104

⊕ ZFN-unknown-SP-7-213
 58270 aGCCTCCAGCCCGG**CGCAGGTGCC**g 58296
 58270 t**CGGAGGTCTG**GGGCGGCGTCCACGGc 58296

⊕ ZFN-unknown-SP-7-214
 58273 cTCCAGCCCGGCGC**AGGTGCCGCCG**Cg 58299
 58273 g**AGGTCTGGGG**CCGGCGTCCACGGCGGc 58299

⊕ ZFN-unknown-SP-7-215
 58276 cAGCCCGGCGCAG**GTGCCGCCGCA**g 58302
 58276 g**TCGGGGCCG**GCGTCCACGGCGGCGTc 58302

⊕ ZFN-unknown-SP-7-216
 58279 cCCCGGCGCAGGTGCC**GCCGCAGCA**c 58305
 58279 g**GGGCCGGCG**TCCACGGCGGCGTCCGTg 58305

⊕ ZFN-unknown-SP-7-217
 58455 aAACC GGCCGGGG**CGCGCCGCC**a 58481
 58455 t**TTGCGCGCG**GCCCCGCGCCGGCGGt 58481

⊕ ZFN-unknown-SP-7-218
 58601 gCCCCCGCCCGCC**CGCCGGTGTG**c 58627
 58601 c**GGGCGGGCG**GCGGGGGCGGCCACACg 58627

⊕ ZFN-unknown-SP-5-207
 58608 cCCCCGCCCGCG**TGTGCCGTG**a 58632
 58608 g**CGGGCGGGG**CGGCCACACGGCAct 58632

⊕

ZFN-unknown-SP-7-219
 58940 cGACGCGGCGCGCCCCG**CCGCGCGCCG**c 58966
 58940 g**CTGCGGC****CCG**CGGGGGCGGCGGCGGc 58966

+ ZFN-unknown-SP-7-220
 58943 cGCCGCGCGCGCGCGCC**GGCGCCGCC**a 58969
 58943 g**CGGCGGGG**GGGGCGGCGGCGCGGt 58969

+ ZFN-unknown-SP-5-208
 59022 aAACACCTCCCGGC**GGCGCCGAG**c 59046
 59022 t**TTGTGGAGG**GGCGCGCGGCTCg 59046

+ ZFN-unknown-SP-5-209
 59193 gATCTGCAGCTGCTG**GCTGCGGGG**g 59217
 59193 c**TAGACGTG**ACGACCCACGCCCCc 59217

+ ZFN-unknown-SP-7-221
 59193 gATCTGCAGCTGCTGGG**TGCGGGGGC**c 59219
 59193 c**TAGACGTG**ACGACCCACGCCCCGg 59219

+ ZFN-unknown-SP-5-210
 59196 cTGCAGCTGCTGGGT**CGGGGGCC**c 59220
 59196 g**ACGTCGACG**ACCCACGCCCCCGg 59220

+ ZFN-unknown-SP-5-211
 59232 gGTCGCCACAAACAC**GCTGCTGGC**g 59256
 59232 c**CAGCGGTGT**TTGTGCGACGACGc 59256

+ ZFN-unknown-SP-7-222
 59318 cCCGCCCCCGAGACTC**GACGCCGCG**c 59344
 59318 g**GGGCGGGG**CTCTGAGCTGCGGCGCg 59344

+ ZFN-unknown-SP-5-212
 59320 cGCCCCCGAGACTC**GACGCCGCG**c 59344
 59320 g**CGGGGGCT**CTGAGCTGCGGCGCg 59344

+ ZFN-unknown-SP-6-227
 59654 cGGCCGCCGCTGCAC**GCTGGGGG**a 59679
 59654 g**CGGCGGCG**GACGTGCGACCCCTt 59679

+ ZFN-unknown-SP-5-213
 59658 cGCCGCCTGCACGCT**GGGGGACG**g 59682
 59658 g**CGGCGGACG**TGCGACCCCTGc 59682

+ ZFN-unknown-SP-7-223
 59658 cGCCGCCTGCACGCTGGGG**GACGGC**g 59684
 59658 g**CGGCGGACG**TGCGACCCCTGCCGc 59684

+ ZFN-unknown-SP-6-228
 60164 gGGCAACGTGCGCCTC**GAAAGCTGCT**c 60189
 60164 c**CGTTGCA**CGGGAGCTTCGACGAg 60189

+ ZFN-unknown-SP-7-224
 60420 gGACCGCCGCGGAGGA**GCTGCAGCA**g 60446
 60420 c**CTGGCGGC**CGCTCCTCGACGTCGTc 60446

+ ZFN-unknown-SP-5-214
 60477 cGACAGCGACATGGC**CTGGTTGGC**c 60501
 60477 g**CTGTGCGCTG**TACCGCACCAACCGg 60501

+ ZFN-unknown-SP-6-229
 60497 tGGCCTCGGCCAGACC**GTCGCGGA**c 60522
 60497 a**CCGAGCCG**GTCTGGCAGCGCCTTg 60522

+ ZFN-unknown-SP-5-215
 60573 aTCCACCAGCTGCTT**GATGTTGT**c 60597

60573 tAGGTGGTCGACGAACTACAACAAg 60597

⊞ ZFN-unknown-SP-6-230
60636 cTCCAGCCTCCCAGGGCCGTGGGca 60661
60636 gAGGTCGGAGGGGTCCCGCACCCGt 60661

⊞ ZFN-unknown-SP-5-216
60795 gTCCCCAGCAGCTCGCAGTCGCTg 60819
60795 cAAGGGGTGTCAGCGTCAGCGAc 60819

⊞ ZFN-unknown-SP-5-217
61120 gTCCGCGCAGAGGGCGCCGTGg 61144
61120 cAAGCGGGCTGCTCCCCGCGGCACc 61144

⊞ ZFN-unknown-SP-7-225
61121 tTCCGCGCAGAGGGGCGCCGTGGGGc 61147
61121 aAGGCGGGCTGCTCCCGCGGCACCCGg 61147

⊞ ZFN-unknown-SP-7-226
61271 gCCCGGCGTCGTCCACCTGGGTCAGGt 61297
61271 cGGGCGGCAGCAGGTGGAGCCAGTCCa 61297

⊞ ZFN-unknown-SP-6-231
61280 cGTCCACCTCGGTCAGGTGAGGGC 61305
61280 gCAGGTGAGCCAGTCCACCTCCCGg 61305

⊞ ZFN-unknown-SP-5-218
61280 cGTCCACCTCGGTCAGGTGAGGGC 61304
61280 gCAGGTGAGCCAGTCCACCTCCCGg 61304

⊞ ZFN-unknown-SP-6-232
61358 aCGCCCCGACGGCGCCGGCGGGGC 61383
61358 tGGGGGGCTGCCGCGCCGCGCCCGg 61383

⊞ ZFN-unknown-SP-7-227
61364 cGACGGCGCCGGCGCGGGCCGCGGGGg 61390
61364 gCTGCGCGGCCGCGCGCCGGCGCCCGc 61390

⊞ ZFN-unknown-SP-7-228
61367 cGGCGCCGGCGCGGGCGCGGCGGTt 61393
61367 gCGCGGGCGGCGGCCGGCGCCCGCAAa 61393

⊞ ZFN-unknown-SP-7-229
61491 cGCCATCACCGAGGCCAGCGCTGCTc 61517
61491 gCGGTAGTGGCTCCGGTCCGCGACGAg 61517

⊞ ZFN-unknown-SP-5-219
61715 cGACCGCCTCGAACAGCAGGCGGGc 61739
61715 gCTGGCGGAGCTTGTCTGTCGCCCGc 61739

⊞ ZFN-unknown-SP-7-230
61906 aTCCCCCCAGATGCAGAAAGGTGTTg 61932
61906 tAGGGCGGGTCTACGTCCTTCCACAAc 61932

⊞ ZFN-unknown-SP-7-231
62143 tGGCGGCGCCGTGAAAGACGTAAACg 62169
62143 aCCGCGGGCGGCACTTTCTGCATTGc 62169

⊞ ZFN-unknown-SP-6-233
62303 cGACGGCGACGTCCGCGTCCGCGCTg 62328
62303 gCTGCGGCTGCAAGGCGCAGCGGCGAc 62328

⊞ ZFN-unknown-SP-6-234
62306 cGGCGACGTCCGCGTCGCCGTGCGc 62331
62306 gCGCTGCAAGCGCAGCGGCGACGCGc 62331

⊞

ZFN-unknown-SP-6-235
 62357 gGCCTTCGGCCGACAGGGCGCGCCa 62382
 62357 cCGGAAGCCGGCCTGTCCGCGCCGt 62382

+ ZFN-unknown-SP-5-220
 62528 cGACGGCTGCTGCCCCGCCGTCGTCt 62552
 62528 gCTGCCGACGACGGGCGGCAGCAGa 62552

+ ZFN-unknown-SP-5-221
 62542 cGCCGTCTCTCTCCGATGGGTGc 62566
 62542 gCGGCAGCAGAGAGGCTACCCAGc 62566

+ ZFN-unknown-SP-6-236
 62547 tCGTCTCTCCGATGGGGTTCGAATGCc 62572
 62547 aGCAGAGAGGCTACCCAGCTTACGg 62572

+ ZFN-unknown-SP-5-222
 62609 gAGCGGCCCTGGTGGGGTGGGA 62633
 62609 cTCGCCGGGACCACCCACCCTa 62633

+ ZFN-unknown-SP-7-232
 62720 cTCCAGCGCGATTCCAGAGGCCCTGCg 62746
 62720 gAGGTTCGCCGCTAAGCTCTCCGACGc 62746

+ ZFN-unknown-SP-7-233
 62852 cGTCATCGGCAGGGGGCGTGCGCCGCCc 62878
 62852 gCAGTAGCCGTCCCCGCACCGCGGg 62878

+ ZFN-unknown-SP-5-223
 63023 cGGCCGCCATAAGCCCGGCCCTGCc 63047
 63023 gCCGGCGGGTATTTCGCGCCGACGg 63047

+ ZFN-unknown-SP-6-237
 63169 cGCCATCCCAACCCGAGCTGTGGGt 63194
 63169 gCGGTAGGGTGGGGCTCACAACCCa 63194

+ ZFN-unknown-SP-7-234
 63173 aTCCCAACCCGAGCTGTGGGTGGGc 63199
 63173 tAGGGTGGGCTCGACAACCCACCCGc 63199

+ ZFN-unknown-SP-7-235
 63254 gACCGGCGGCGATGTTTGTGCGCGCGg 63280
 63254 cTGGCCGCCGCTACAAAACAGCGCGCc 63280

+ ZFN-unknown-SP-6-238
 63284 gCCCGGCTTCCCCCGGGGGAAGCCg 63309
 63284 cGGGCCGAAGGGGCCCCCTTCGGc 63309

+ ZFN-unknown-SP-6-239
 63287 cGGCTTCCCCCGGGGGGAAGCCGGCg 63312
 63287 gCCGAAGGGGGCCCCCTTCGGCCGc 63312

+ ZFN-unknown-SP-5-224
 63368 cGGCACCGCCGCTTGCCGCCGGCa 63392
 63368 gCCGTGGCGGCGGAACGGCGGCCGt 63392

+ ZFN-unknown-SP-7-236
 63569 gCGCCCTAAGGTGTACTGCGGGGGGg 63595
 63569 cCGGGGGATTCCACATGACGCCCCCc 63595

+ ZFN-unknown-SP-5-225
 63855 tCACGTCTACGGCACGCCGAGTA 63879
 63855 aGTGCAGATGCCGTGCGCCGTATg 63879

+ ZFN-unknown-SP-7-237

63995 tCTCCGCGGACCACTTCGAGGCGGAGg 64021
 63995 aGAGGCGCCTGGTGAAGCTCCGCCTCc 64021

⊕ ZFN-unknown-SP-6-240
 64002 gGACCACTTCGAGGCGGAGGTGCTg 64027
 64002 cCTGGTGAAGCTCCGCCTCCACCACc 64027

⊕ ZFN-unknown-SP-5-226
 64002 gGACCACTTCGAGGCGGAGGTGGTg 64026
 64002 cCTGGTGAAGCTCCGCCTCCACCACc 64026

⊕ ZFN-unknown-SP-7-238
 64068 gTACTACCGCTCTTCGTGCCAAGCGg 64094
 64068 cATGATGGCCAGAAGCACGCTTCGcc 64094

⊕ ZFN-unknown-SP-7-239
 64071 cTACCGCTCTTCGTGCCAAGCGGGCg 64097
 64071 gATGGCGCAGAAGCACGCTTCGCCCGc 64097

⊕ ZFN-unknown-SP-7-240
 64074 cCGGCTTTCGTGGAAAGCGGCGCGc 64100
 64074 gCGCGAAGCACGCTTCGCCCGCGc 64100

⊕ ZFN-unknown-SP-7-241
 64212 gTACCGCTCAAGCCCGGCCGCGGAa 64238
 64212 cATGGCGGAGTTCGGGCCGGCGCCCTt 64238

⊕ ZFN-unknown-SP-7-242
 64246 gCCCAACCGCGCCCCGACGGCGTtc 64272
 64246 cGGTTGGCGCGGGGGCTGCCGCAAg 64272

⊕ ZFN-unknown-SP-6-241
 65286 gGACGACGACGAGGACGGGGACGAGg 65311
 65286 cCTGCTGCTGCTCCTGCCCTTGCTCc 65311

⊕ ZFN-unknown-SP-5-227
 65403 tCACGTGACCCCGTGGTGGTGTt 65427
 65403 aGTGCAGCTGGGCACCACACAAa 65427

⊕ ZFN-unknown-SP-5-228
 65488 tCCCTGCGGCCCGAGGCCGTCGCGc 65512
 65488 aGGGAGCCCGGGCTCCGGCAGCGc 65512

⊕ ZFN-unknown-SP-6-242
 65696 aACAGGCCGCCATCAAGGTGGTGTc 65721
 65696 tTGTCCGGCGTAGTTCCACCACAg 65721

⊕ ZFN-unknown-SP-6-243
 65958 gTGCCGCGCCTCACGSCCGCGGCc 65983
 65958 cACGGCGCCGGAGTGCCGGCGCCCGg 65983

⊕ ZFN-unknown-SP-6-244
 66099 gTACATCGCGTCATCTGCGGGGGCa 66124
 66099 cATGTAGCCGCAGTAGACGCCCCGt 66124

⊕ ZFN-unknown-SP-7-243
 66099 gTACATCGCGTCATCTGCGGGGGCa 66125
 66099 cATGTAGCCGCAGTAGACGCCCCGt 66125

⊕ ZFN-unknown-SP-5-229
 66255 gCGCCCCGAGAGGAGTGGCTGGCg 66279
 66255 cCGGGGCGTCTCCTACCGACCGc 66279

⊕ ZFN-unknown-SP-5-230
 66336 gCGCATCACCAGCCCGAGAGGGAc 66360
 66336 cCGGTAGTGGCTGGCCTCTCCCTg 66360

⊕ ZFN-unknown-SP-6-245
 66552 cGCCCTCCGCGAGCTA**GACGCCGCCg** 66577
 66552 g**CGGAGGCC**CTCGATCTGCGCGGc 66577

⊕ ZFN-unknown-SP-7-244
 66625 aAGCGCCCCCGGAGAC**GCCGTCCGA**t 66651
 66625 t**TCCGGGG**CCCTCTGCGGACGCTa 66651

⊕ ZFN-unknown-SP-7-245
 66647 cGCATGCCGACCCCCG**GGA**GGCGCGt 66673
 66647 g**CGTACGGCT**GGGGGCCCTCCGCGCa 66673

⊕ ZFN-unknown-SP-5-231
 66766 tCGCACCTGCTGGGG**GCGCCTGCg** 66790
 66766 a**CGGTGGACG**ACCCCGCCGGACGc 66790

⊕ ZFN-unknown-SP-5-232
 66865 tGGCACCCCGGAC**GACGTGGCCg** 66889
 66865 a**CCGTGGGG**GCCTGCTGCACGGc 66889

⊕ ZFN-unknown-SP-7-246
 66866 gGCACCCCGGACG**GTGGCCGCCc** 66892
 66866 c**CGTGGGG**CCCTGCTGCACGGCGg 66892

⊕ ZFN-unknown-SP-6-246
 67103 gCTCTGCCACACGTGG**GCGCGAACc** 67128
 67103 c**GAGACGGTG**TGCACCCGCCGCTTg 67128

⊕ ZFN-unknown-SP-7-247
 67491 cAGCCCCGATCCCCAG**GTA**GTAGCCc 67517
 67491 g**TGGGGGGT**AGGGGTCCATCATCGGg 67517

⊕ ZFN-unknown-SP-6-247
 68279 tGTTCTCCGAGTAGCG**GACGACGGA**c 68304
 68279 a**CAAGAGGCT**CATCGCCTGCTGCCTg 68304

⊕ ZFN-unknown-SP-5-233
 68543 cGTCCCGGCGGCGC**GCA**GCCGGGg 68567
 68543 g**CAGGCGCC**CCGCGCTCGCCCCc 68567

⊕ ZFN-unknown-SP-5-234
 68546 cCGCGCGGCGCGCA**GCCGGGCCc** 68570
 68546 g**GCGCCGCCG**CGGTCGGCCCCGGg 68570

⊕ ZFN-unknown-SP-5-235
 68565 gGGCCCGACTCCCA**GACGCGGGg** 68589
 68565 c**CGGGGCTG**AGGGTCTGCCGCCc 68589

⊕ ZFN-unknown-SP-5-236
 68568 cCCCGACTCCAGAC**GCGGGGGTg** 68592
 68568 g**GGCTGAGG**GTCTGCCGCCCCCAc 68592

⊕ ZFN-unknown-SP-6-248
 68568 cCCCGACTCCAGACG**GCGGGGGTGc** 68593
 68568 g**GGCTGAGG**GTCTGCCGCCCCACg 68593

⊕ ZFN-unknown-SP-6-249
 68570 cCGACTCCAGACGGC**GGGGTGCCg** 68595
 68570 g**GCTGAGGT**CTGCCGCCCCACGc 68595

⊕ ZFN-unknown-SP-6-250
 68690 gGGCGGCGCGCGGT**GCA**GCA**GCTg** 68715
 68690 c**CGCCGCCG**CGGCACGTCTCGAC 68715

⊕

ZFN-unknown-SP-6-251
68978 cCCGCGCGTCGGTCCGGAAGCAGCAg 69003
68978 gGGGCGGCAgCCAGGCCTTCGTCTGc 69003

⊕ ZFN-unknown-SP-5-237
69386 gCGCGGCCCGCGCGGCCGCGGGGg 69410
69386 cGGCGCGGGGCGCGCCGGCGCCCC 69410

⊕ ZFN-unknown-SP-6-252
69396 gCGCGGCCCGCGGGGGGGCGGGCGCGa 69421
69396 cGGCGCGGGCGCCCCCGCCCGCGct 69421

⊕ ZFN-unknown-SP-6-253
69557 aCGCGCCCTCCTTCCAGCTGCTGCCc 69582
69557 tGGCGGGGAGGAAGGTCGACGACGg 69582

⊕ ZFN-unknown-SP-6-254
69606 gCTCGACGGCACCCCCGGGGCGGACg 69631
69606 cGAGCTGCCGTGGGGGCCCGCCTGc 69631

⊕ ZFN-unknown-SP-6-255
69609 cGACGGCACCCCGGGGCGGACGTCg 69634
69609 gCTGCCGTGGGGCCCCCGCTGCAGc 69634

⊕ ZFN-unknown-SP-6-256
69612 cGGCACCCCGGGGGCGAGCTCGCCa 69637
69612 gCCGTGGGGGCCCGCCTGCAGCGGt 69637

⊕ ZFN-unknown-SP-6-257
69732 gCGCTACGTCTCGCGAGACGGCGCGg 69757
69732 cCGCATGCAGAGCGCTCTGCCGCGCc 69757

⊕ ZFN-unknown-SP-5-238
69834 gAACTACCTCTCGCGGACGCAGCGg 69858
69834 cTTGATGGAGAGCGCCTGCGTCGCc 69858

⊕ ZFN-unknown-SP-6-258
70003 gACCTGCACAGATCCCTGCGGGGCTg 70028
70003 cTGGACGTGGTCTAGGACGCCCGAc 70028

⊕ ZFN-unknown-SP-6-259
70139 cTACGGCGGCCCGCCCGGGGACGCGt 70164
70139 gATGCCGCGCGCGGGGCCCTTGCGCa 70164

⊕ ZFN-unknown-SP-7-248
70196 tGTTCCCGCCACGCTGC GCGGCGGGGg 70222
70196 aCAAGGCGGTGCGAGCGCGCCGCCCc 70222

⊕ ZFN-unknown-SP-7-249
70198 tTCCCGCCACGCTGCGCGGGCGGGGTg 70224
70198 aAGGGCGGTGCGAGCGCCGCCCCCAc 70224

⊕ ZFN-unknown-SP-5-239
70198 tTCCCGCCACGCTGC GCGGCGGGGg 70222
70198 aAGGCGGGTCGACGCGCCGCCCCc 70222

⊕ ZFN-unknown-SP-7-250
70355 gCCCTGCAACCCCTACCTGCGCGGTGCa 70381
70355 cGGGACGTTGGGGATGGACGCGCACGt 70381

⊕ ZFN-unknown-SP-5-240
70382 gAACACCGCGCTTTCGGTGCTGTTt 70406
70382 cTTGTGGCCGCAAAGCCACGACAAa 70406

⊕ ZFN-unknown-SP-6-260
70424 gCCCCAGGCGCCCCGGGGCGCGa 70449

70424 cGGGTGCGCGGGGCCCCCGCGCt 70449

⊞ ZFN-unknown-SP-6-261
 70644 cGCACCGCGCGGATCCGTGTGCGGc 70669
 70644 gCGTGCGCGCGCCTAGGACACAGCGc 70669

⊞ ZFN-unknown-SP-5-241
 70795 cGCCAGCGCCCGCGGACGGGGACc 70819
 70795 gCGGTGCGCGCGGGCCTGCCCTGg 70819

⊞ ZFN-unknown-SP-6-262
 70870 gCCCCCGGCGCTTCTGTGTGCTGGCg 70895
 70870 cGGGGGGCGCGAAGACAACGACCGc 70895

⊞ ZFN-unknown-SP-6-263
 71084 cCCAGCACCATTAACCGCCGACAACg 71109
 71084 gGGGTGCTGGTAATGGCGGCTGTTGc 71109

⊞ ZFN-unknown-SP-7-251
 71102 cGACAACGTCCGGGCGCTCGGCATGCG 71128
 71102 gCTGTTGCAAGCCCGGAGCCGTACGc 71128

⊞ ZFN-unknown-SP-7-252
 71181 cCGCATCCGCACGGAACGCAAGGGTGCg 71207
 71181 gCGGTAGGCGTGCCTTGCGTCCACGc 71207

⊞ ZFN-unknown-SP-6-264
 71182 cGCATCCGCACGGAACGCAAGGTGCg 71207
 71182 gCGTAGGCGTGCTTGCGTCCACGc 71207

⊞ ZFN-unknown-SP-7-253
 71278 tCGCCCCGAGCCTATGTTCGGGGGGc 71304
 71278 aGGGGGGCGTCGGATACAAGCGCCGc 71304

⊞ ZFN-unknown-SP-5-242
 71280 gCCCCGAGCCTATGTTCGCGGGCg 71304
 71280 cGGGGCGTCGGATACAAGCGCCGc 71304

⊞ ZFN-unknown-SP-5-243
 71283 cCGCAGCCTATGTTCCGGGCGACg 71307
 71283 gCGGTGCGGATACAAGCGCCGCTGc 71307

⊞ ZFN-unknown-SP-6-265
 71305 aCGCCGCGGCCGAATGGCTGCGGCCc 71330
 71305 tCGCGCGCGCGCTTACCGACGCCGg 71330

⊞ ZFN-unknown-SP-7-254
 71399 aGTCCTCGGCGGGTCCCCTCCGGGGCg 71425
 71399 tCAGGAGCGCGCCAGGAGGCGCCGc 71425

⊞ ZFN-unknown-SP-7-255
 71638 gTCCGCTGCAGCTGTTGTTGTATGCg 71664
 71638 cCAGGCGACGTCGACAACAACATACGc 71664

⊞ ZFN-unknown-SP-7-256
 72079 aAGCGTCCGAGTTACGGGCGGCGAGGG 72105
 72079 tTCGCAGGCTCAATGCCCGCGTCCCc 72105

⊞ ZFN-unknown-SP-6-266
 72459 gCACTGCCCGCTGCGGGGAAACc 72484
 72459 cGTGACGGCGCGACGCCGCTTTGg 72484

⊞ ZFN-unknown-SP-7-257
 72468 cCGCTGCGCGGAAACCGCGGCGCGct 72494
 72468 gCGGACGCGCGCTTTGGCGCCGCGCa 72494

⊞

ZFN-unknown-SP-7-258
72480 aAACCgGgCCGCGTGGTCGGGCTGGgt 72506
72480 tTTGGCGCCGGCGCACAGCCGACCCa 72506

+ ZFN-unknown-SP-7-259
72629 tGGCGGCGCCGCGGCGGGCGGGTCCGCC 72655
72629 aCCGCCGCGGGCGGCGCCGCCAGCGGg 72655

+ ZFN-unknown-SP-7-260
72660 gGACGACCGCTCCTTCGGGGGCGGAg 72686
72660 cCTGCTGGCGAGGAAGCCGCCCGCCTc 72686

+ ZFN-unknown-SP-7-261
72663 cGACCGCTCCTTCGGCGGGCGGAGGGc 72689
72663 gCTGGCGAGGAAGCCGCCCGCCTCCGc 72689

+ ZFN-unknown-SP-5-244
72666 cCGCTCCTTCGGCGGGCGGAGGCGGg 72690
72666 gCGGAGGAAGCCGCCCGCCTCCGc 72690

+ ZFN-unknown-SP-7-262
72666 cCGCTCCTTCGGCGGGCGGAGGCGGGa 72692
72666 gCGGAGGAAGCCGCCCGCCTCCGCCct 72692

+ ZFN-unknown-SP-5-245
72669 cTCTTCGGCGGGCGGAGGCGGGA 72693
72669 gAGGAAGCCGCCCGCCTCCGCCTa 72693

+ ZFN-unknown-SP-5-246
72857 gGACGCCACCCCTCGGGGGGGCGGg 72881
72857 cCTGCGGTGGGAGCCCCCCCCGc 72881

+ ZFN-unknown-SP-7-263
72857 gGACGCCACCCCTCGGGGGGGGCGGAg 72883
72857 cCTGCGGTGGGAGCCCCCCCCGCCTc 72883

+ ZFN-unknown-SP-5-247
72859 aCGCCACCCCTCGGGGGGGGCGGAg 72883
72859 tCGCGTGGGAGCCCCCCCCGCCTc 72883

+ ZFN-unknown-SP-6-267
72859 aCGCCACCCCTCGGGGGGGGCGGAGg 72884
72859 tCGCGTGGGAGCCCCCCCCGCCTc 72884

+ ZFN-unknown-SP-7-264
72936 gCACGGCGGCGGAGAAAAGCGGCGGCAg 72962
72936 cGTGCCGCGCCCTTTTCGCCGCCGTc 72962

+ ZFN-unknown-SP-6-268
73052 gGCACGCGCCCCGTGTTTTGTGAGg 73077
73052 cCGTGCGCGGGGCACAAAACAACTCc 73077

+ ZFN-unknown-SP-5-248
73324 gTCCGCCTGCCGTGCGGGGGGGCa 73348
73324 cAGGCGGACGGCACGCCCCCCCCGt 73348

+ ZFN-unknown-SP-6-269
73324 gTCCGCCTGCCGTGCGGGGGGGCAg 73349
73324 cAGGCGGACGGCACGCCCCCCCCGTc 73349

+ ZFN-unknown-SP-6-270
73425 gACCTGCCTCGTCGGCGAGGGGCGc 73450
73425 cTGGACGGAGCAGCCGCTCCCCCGg 73450

+ ZFN-unknown-SP-5-249

73428 cTGCCTCGTCGGCGAGGGGGCGCTg 73452
 73428 gACGGAGCAGCCGCTCCCCGCGAc 73452

⊕ ZFN-unknown-SP-5-250
 73431 cCTCGTCGGCGAGGGGGCGCTGGTa 73455
 73431 gGAGCAGCCGCTCCCCGCGACc 73455

⊕ ZFN-unknown-SP-5-251
 73474 cAGCTCCCCGTCAGGAGGAGGCG 73498
 73474 gTCGAGGGGGCAGTCCTCCCTCCGc 73498

⊕ ZFN-unknown-SP-5-252
 73477 cTCCCCGTCAGGAGGGAGGCGCTc 73501
 73477 gAGGGGGCAGTCCTCCCTCCGAGc 73501

⊕ ZFN-unknown-SP-6-271
 73477 cTCCCCGTCAGGAGGGAGGCGTCGa 73502
 73477 gAGGGGGCAGTCCTCCCTCCGAGCt 73502

⊕ ZFN-unknown-SP-6-272
 73812 cGACGGCCACGTCTCGATGTGGAc 73837
 73812 gCTGCCGGTGCAGAGCTACAGCCTg 73837

⊕ ZFN-unknown-SP-6-273
 73816 gCCCCACGTCTCGATGTCGGACGACa 73841
 73816 cCGGTGCAGAGCTACAGCCTGCTg 73841

⊕ ZFN-unknown-SP-6-274
 73854 gGGCGGCGTCCGGCCC GCCGGGGCGc 73879
 73854 cCGCCCGCAGGCCGGCGGCCCGGc 73879

⊕ ZFN-unknown-SP-6-275
 73947 cCACCACGACGGGCGGCCGAGGAGc 73972
 73947 gGTGGTGCTGCCCGCGGCTCCTCg 73972

⊕ ZFN-unknown-SP-7-265
 74231 gGCAGACACATGCGCCC GAGGACGCTc 74257
 74231 cCGTCTGTGTACGCGGCTCCTGCGAg 74257

⊕ ZFN-unknown-SP-7-266
 74256 tCACCGCGCCAGGGCTGGGGCCGGAc 74282
 74256 aGTGGGGGGGTCCCGGACCCGGCCTg 74282

⊕ ZFN-unknown-SP-5-253
 74440 aAACGTCGGCAACACGCGGATGCGg 74464
 74440 tTTGCAGCCGTTGTGCGCCTACGCc 74464

⊕ ZFN-unknown-SP-5-254
 74443 cGTCGGCAACACGCGGATGCGGGc 74467
 74443 gCAGCCGTTGTGCGCTACGCCGc 74467

⊕ ZFN-unknown-SP-6-276
 74674 gCCCCGCGGCGGACGCGGCCGCCCGc 74699
 74674 cGGGCCGCCGCTGCGCGCGGCGGc 74699

⊕ ZFN-unknown-SP-7-267
 74803 gCCCCACGTGCGCTGGCGATGGCGCAc 74829
 74803 cGGGTGCAGCGGACCGCTACCGCGTg 74829

⊕ ZFN-unknown-SP-5-255
 75126 gGTCTCCGCGGCGCGCAGATACGc 75150
 75126 cCAGAGGCCGCCGCGGCTATGCGc 75150

⊕ ZFN-unknown-SP-5-256
 75147 aCGCCTCGCCCGGCGGGCGAGCAg 75171
 75147 tCGGAGCCGGGCCGCGCTCGTc 75171

⊕ ZFN-unknown-SP-6-277
 75149 gCCTCGCCCCGGCGGC**GCA****GCA****GCT**g 75174
 75149 c**GGAGCGGG**CCGCCGCTCGTCGA**c** 75174

⊕ ZFN-unknown-SP-6-278
 75152 tCGCCCCGGCGCGCA**GCA****GCT****GCG**g 75177
 75152 a**CGGGGGCG**CCGCCGCTCGACGC**c** 75177

⊕ ZFN-unknown-SP-6-279
 75155 cCCCGCGCGCAGCA**GCT****GCG****GGT**c 75180
 75155 g**GGCCCGCG**CGTCGTCGACGCCA**g** 75180

⊕ ZFN-unknown-SP-5-257
 75158 cGGCGGCGCAGCAG**CTG****CG****GGT****CG**a 75182
 75158 g**CGCGCGGT**CGTCGACGCCA**g**c 75182

⊕ ZFN-unknown-SP-7-268
 75177 gGTCGACCTCGTGGCC**CTCG****GGG****GAA**g 75203
 75177 c**CAGCTGAG**CACCGGAGCCCTT**c** 75203

⊕ ZFN-unknown-SP-6-280
 75270 cGCCCGCGCCGTC**GGC****CG****CGG****C**c 75295
 75270 g**CGGGCGCG**GCAGACCGGCGGCC**g** 75295

⊕ ZFN-unknown-SP-7-269
 75451 gCGCACCACTCATCC**CGCA****GC****CGG****C**c 75477
 75451 c**CGGTGGTGG**AGTAGGGCTCGGCC**g** 75477

⊕ ZFN-unknown-SP-5-258
 75453 gCACCACTCATCC**CGCA****GC****CGG****C**c 75477
 75453 c**GTGGTGGAG**TAGGGCGTCGGCC**g** 75477

⊕ ZFN-unknown-SP-5-259
 75604 cAGCCCCGACACCG**TGT****TGGT****GGT**g 75628
 75604 g**TCGGGGCTG**TGGCACAACCA**c** 75628

⊕ ZFN-unknown-SP-5-260
 75607 cCCCGACCCGT**TGGT****GGT****GT**c 75631
 75607 g**GGGCTGTGG**CACAACCA**c** 75631

⊕ ZFN-unknown-SP-5-261
 75751 gACCTCCGAGGG**CTCG****AC****CGCG**g 75775
 75751 c**CTGGAGGCG**TCCCGCAGCTCGC**c** 75775

⊕ ZFN-unknown-SP-7-270
 75752 gACCTCCGAGGG**CTCG****AC****CGGCG**c 75778
 75752 c**TGGAGGCGT**CCCGCAGTCGCGC**g** 75778

⊕ ZFN-unknown-SP-5-262
 75790 gAGCGCCCCAGGC**GGCG****CG****GTG**c 75814
 75790 c**TCGGGGGG**TCCCGCGCCG**C**g 75814

⊕ ZFN-unknown-SP-5-263
 75811 gTGCCGCGCAGGG**GGCG****GG****GCC**g 75835
 75811 c**ACGGCGCG**TCCCCGGCCCG**c** 75835

⊕ ZFN-unknown-SP-7-271
 76158 cCACTGCGTCCTTGG**CTCG****G****CC****GT**g 76184
 76158 g**GTGACGCA**GAACAGAGCCGC**A**a 76184

⊕ ZFN-unknown-SP-7-272
 76350 gGGCCGGATATCT**GCTCC****G****CG****GCG**c 76376
 76350 c**CGGCGCCT**ATAGACGAGCGCC**c** 76376

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ZFN-unknown-SP-7-273
 76529 aGGCGCCCAAGGCTTCGTGGTAGTCg 76555
 76529 tCCGGGGGTGCCGAGACCATCAGc 76555

+ ZFN-unknown-SP-7-274
 76588 gAGCCCTCCGCGATGCGCAGCAGCCg 76614
 76588 cTCGGGAGGCGCTACGCGTCGTCGGc 76614

+ ZFN-unknown-SP-5-264
 76590 gCCCTCCGCGATGCGCAGCAGCCg 76614
 76590 cGGGAGGCGCTACGCGTCGTCGGc 76614

+ ZFN-unknown-SP-6-281
 76609 cAGCCGCGCCAGGGCTCGGCGTCGa 76634
 76609 gTCGGCGGGTCCCGAGCCGCAGCt 76634

+ ZFN-unknown-SP-7-275
 76679 gCGCTCCAGCCGAGCGGTGGATGGCg 76705
 76679 cCGAGGTCCGCTCCGCGACCTACCGc 76705

+ ZFN-unknown-SP-7-276
 76682 cTCCAGCCGAGCGGTGGATGGCGGCg 76708
 76682 gAGGTGGCTCCGCCACCTACCGCGc 76708

+ ZFN-unknown-SP-7-277
 76861 cGCCAGCGCTGCAGGCGGCGCAGCTc 76887
 76861 gCGGTCCGGACGTCCGCCGCTCGAg 76887

+ ZFN-unknown-SP-6-282
 76887 cGACCACGTGGAAGTCGGCGGGTTC 76912
 76887 gCTGGTGCAGCTTGAGCCGCGCCAAg 76912

+ ZFN-unknown-SP-5-265
 76921 gTCCAGCGCGCCTCGACGCCGGCg 76945
 76921 cAGGTCCGGCGGAGCTGCGGCGc 76945

+ ZFN-unknown-SP-6-283
 76941 cGGCGGCCAGCGCTCGTGTGCCc 76966
 76941 gCGCCCGGTCCGAGCGACGACGGg 76966

+ ZFN-unknown-SP-5-266
 76984 cATCTTCGCCGTGAGTCCGGCGACg 77008
 76984 gTAGAAGCGGCAGTCCAGCCGCTGc 77008

+ ZFN-unknown-SP-6-284
 76984 cATCTTCGCCGTGAGTCCGGCGACGg 77009
 76984 gTAGAAGCGGCAGTCCAGCCGCTGc 77009

+ ZFN-unknown-SP-6-285
 77007 cGGCGGCTCAAGTTCGTGGCGCGc 77032
 77007 gCGCCGGAGTTCAGCAGCCGCGc 77032

+ ZFN-unknown-SP-7-278
 77027 gCGCGGCTCGCGTGGCGCCGATGACc 77053
 77027 cGGCCCGAGCGCACC GGCTACTGg 77053

+ ZFN-unknown-SP-7-279
 77091 gGTCCCGGCGTCCCTTCGGCGTCGa 77117
 77091 cAGGGGCGCGCAGGGAAGCCGCAGt 77117

+ ZFN-unknown-SP-5-267
 77100 cCGTCCCTTCGGCGTGCAGCAGGCc 77124
 77100 gCAGGGAAGCCGACGTCGTCCGg 77124

+ ZFN-unknown-SP-6-286
 77178 gGGCCGCGCATCGATGAGGGCGGCa 77203

77178 cCCGGCGCCGTAGCTACTCCCGCCGt 77203

⊕ ZFN-unknown-SP-6-287
77205 gTCCCCCTCCGGCTGGCGCAGGCc 77230
77205 cCAGGGGGAGGCCACCCGCTCCGg 77230

⊕ ZFN-unknown-SP-5-268
77206 gTCCCCCTCCGGCTGGCGCAGGCc 77230
77206 cAGGGGGAGGCCACCCGCTCCGg 77230

⊕ ZFN-unknown-SP-7-280
77296 cCGCGCTCCAGGCCAGCCGAGTCCg 77322
77296 gCCCGGAGCTCCCGTCGGCTCAGCg 77322

⊕ ZFN-unknown-SP-7-281
77439 gCACGGCCGCTCCACCCTCGCCCGCg 77465
77439 cGTCCCGCGCAGGTGGCAGCGCGCc 77465

⊕ ZFN-unknown-SP-7-282
77442 cGGCCGCTCCACCGTCGCCCGGGAc 77468
77442 gCCCGCGAGGTGGCAGCGCGCCCTg 77468

⊕ ZFN-unknown-SP-7-283
77454 cCGTCGCCCGGACTTGCCGTCCGCa 77480
77454 gCCAGCGCGGCCCTGAACGGCAGCGCt 77480

⊕ ZFN-unknown-SP-6-288
77478 cGACGGCGCGCTCCCGGCGTGATg 77503
77478 gCTGCCCGCGCAGGGCCGCAACTAc 77503

⊕ ZFN-unknown-SP-5-269
77593 cTTACGACCACCACGAAGGCGGga 77617
77593 gAAGTCGTGGTGGTGCTTCGCGCct 77617

⊕ ZFN-unknown-SP-6-289
77596 cAGCACCACCACGAAGGCGGATGCa 77621
77596 gTCGTGGTGGTGCTTCGCGCCTACt 77621

⊕ ZFN-unknown-SP-7-284
77815 tAGCCCCACAAAGTCCGGAGGGGCCg 77841
77815 aTCGGGGTGTTCAGGCCCTCCCGGc 77841

⊕ ZFN-unknown-SP-5-270
77866 gAACTTCTCCCGGCGTCGTGGGCc 77890
77866 cTTGAAGAGGGCCCCGAGCACCCGg 77890

⊕ ZFN-unknown-SP-7-285
78060 cGCCCCGTGCGACTAGGCCGGGGc 78086
78060 gCGGGGGCAGCTGCATGCCGCGCCCCg 78086

⊕ ZFN-unknown-SP-6-290
78118 cAGCTGCTGCGGAGCGCCGCTCGa 78143
78118 gTCGACGACGCGCTCGGGCGCAGCt 78143

⊕ ZFN-unknown-SP-6-291
78132 gCGCCGCTCGAGGGCGTCGAAGCGc 78157
78132 cCGCGCGCAGCTCCCGAGCTTCGCg 78157

⊕ ZFN-unknown-SP-5-271
78181 gCGCCGCGCTGCTGGTGTGATg 78205
78181 cCGCGCGCGACGACCACTACTAc 78205

⊕ ZFN-unknown-SP-5-272
78184 cCGCGCTGCTGGTGTGATGCGc 78208
78184 gCGCGGACGACCACTACTAGGc 78208

⊕

ZFN-unknown-SP-5-273
 78402 gAGCGACGTCCCGG**TGTGTGGT**c 78426
 78402 c**TCGCTCAG**GGCGCACACAACCAg 78426

+ ZFN-unknown-SP-7-286
 78657 tGCCCGCCGCCCGGG**GCGGCGGG**ca 78683
 78657 a**CGGCGGCG**CGGGCCCCGCCCGCt 78683

+ ZFN-unknown-SP-6-292
 78723 aGTCGACCCCGGGG**GAGGGGTC**t 78748
 78723 t**CAGCTGGG**CGCCGCTCCCGCAg 78748

+ ZFN-unknown-SP-7-287
 78811 gGCCAGCGCTGGATCC**GATGGAGAA**g 78837
 78811 c**GGTTCGGG**ACCTAGGCTACCTCTtc 78837

+ ZFN-unknown-SP-6-293
 78835 aAGCGGCTCCGGTG**CTCGGGTG**g 78860
 78835 t**TCGCCAGG**CCACGACGCCCAc 78860

+ ZFN-unknown-SP-5-274
 79140 cCCCGACGGCCGTT**TGCGGGCA**g 79164
 79140 g**GGGCTGCCG**GCAAAACGCCCGTc 79164

+ ZFN-unknown-SP-7-288
 79200 gCCCGGCCACCCGGCC**TGCGTATGC**g 79226
 79200 c**CGGCCGGT**GGGCCGGACGCATACgc 79226

+ ZFN-unknown-SP-6-294
 79288 cTCCAACAGCCCCGGG**TGCCCGGG**t 79313
 79288 g**AGGTGTTCG**GGGCCACGCGGCCa 79313

+ ZFN-unknown-SP-5-275
 79312 gTACGGCGACCGAG**GGCGTTGAT**g 79336
 79312 c**ATGCCGCTG**GCGTCCCGCAACTa 79336

+ ZFN-unknown-SP-5-276
 79315 cGGCGACCGCAGGGC**TTGATGGT**g 79339
 79315 g**CCGCTGGCC**TCCCGCAACTACCAc 79339

+ ZFN-unknown-SP-5-277
 79429 gAACAGCTGCGCCAG**GTGCGGCC**g 79453
 79429 c**TTGTGACG**CGGTCCAGCCCGGc 79453

+ ZFN-unknown-SP-5-278
 79432 cAGCTGCGCCAGT**CGGCGCGGG**g 79456
 79432 g**TCGACGCG**TCAGCCGCGGCCc 79456

+ ZFN-unknown-SP-6-295
 79830 cTTCGGCCGCTCCCC**GGGGGTGT**c 79855
 79830 g**AGCGGGG**CAGGGGCCGCCACAg 79855

+ ZFN-unknown-SP-7-289
 79830 cTTCGGCCGCTCCCC**GCGGGTGT**t 79856
 79830 g**AAGCCGGC**CAGGGGCCGCCACAGa 79856

+ ZFN-unknown-SP-7-290
 79833 cGGCCGCTCCCGGCG**GGTGTCTGC**g 79859
 79833 g**CCGGCGAG**GGGCCGCCACAGACGc 79859

+ ZFN-unknown-SP-7-291
 79839 cGTCCCCGGCGGTG**TGCGGGGG**g 79865
 79839 g**CAGGGGCC**CCACAGACGCCCGCc 79865

+ ZFN-unknown-SP-7-292

79887 aGGCCGGCGCTCCGGG**gCCgAGGGC**t 79913
 79887 t**CCGGCCCG**CAGGCCCGGCTCCCGa 79913

⊕ ZFN-unknown-SP-7-293
 79938 cTGCTGCCACACATCA**TCGGGGGG**c 79964
 79938 g**ACGACGGG**GTGTAGTAGCCCCCGg 79964

⊕ ZFN-unknown-SP-7-294
 79942 tGCCACACATCATCGG**GGGGCGGT**t 79968
 79942 a**CGGGTGTGT**AGTAGCCCCCGCCa 79968

⊕ ZFN-unknown-SP-5-279
 79942 tGCCACACATCATC**GGGGGGCG**g 79966
 79942 a**CGGGTGTGT**AGTAGCCCCCGGc 79966

⊕ ZFN-unknown-SP-5-280
 79972 gTGCCCCGCTGCGG**TGTGTCCGG**t 79996
 79972 c**ACGGGGCG**ACGCCACACAGCCa 79996

⊕ ZFN-unknown-SP-6-296
 79975 cCCCGCTGCGGTGT**TCGGGTGGG**c 80000
 79975 g**GGCGGACG**CCACACAGCCACCG 80000

⊕ ZFN-unknown-SP-7-295
 80150 tCGCCCCGAGGGGGTG**GGTGATGGC**c 80176
 80150 a**GGGGGGCGT**CCCCACCCACTACCGg 80176

⊕ ZFN-unknown-SP-6-297
 80262 gCGCCACGGCCCCGG**gCCGgAGGG**c 80287
 80262 c**CGGTGCCG**GGGGCCGGCCTCCGg 80287

⊕ ZFN-unknown-SP-7-296
 80305 gCCCCCACCGCACCT**TGGGGCGGT**c 80331
 80305 c**GGGGGGGTg**GCGTGGAACCCGCCAg 80331

⊕ ZFN-unknown-SP-5-281
 80308 cGCCACCGCACCT**TGGGGCGGT**Cg 80332
 80308 g**CGGGTGGC**TGGAACCCGCCAGc 80332

⊕ ZFN-unknown-SP-5-282
 80311 cCACCGCACCTTGGG**GGGTCTGT**g 80335
 80311 g**GTGGGTGG**AACCCGCCAGCACc 80335

⊕ ZFN-unknown-SP-6-298
 80545 cGTCTCCAGCAGCCCC**GCCGTGGC**t 80570
 80545 g**CAGAGGTCG**TCGGGGCGGCACCCGa 80570

⊕ ZFN-unknown-SP-5-283
 80615 cGCAGGCCCGCCGC**CGCGCCGG**t 80639
 80615 g**CGTCCGGG**GCGCGCGGCGGCCa 80639

⊕ ZFN-unknown-SP-7-297
 80730 gACATCCCTCGATGGCC**TCCGCGGAC**a 80756
 80730 c**TGTAGGAG**CTACCGGAGGCGCCTGt 80756

⊕ ZFN-unknown-SP-6-299
 80745 cTCCCGGACAGCAC**GTCCGGGG**c 80770
 80745 g**GAGGGGCT**GTCGTGCAGCGCCCGg 80770

⊕ ZFN-unknown-SP-6-300
 80827 cCCCCCGCTCCAGA**TCGGTCGC**ga 80852
 80827 g**GGGGGGCG**AGGTCTAGCCAGCGCt 80852

⊕ ZFN-unknown-SP-6-301
 80830 cCCCGGCTCCAGATCG**GTCCGAACT** 80855
 80830 g**GGGCCGAGC**TCTAGCCAGCGCTTGa 80855

⊕ ZFN-unknown-SP-7-298
 80896 gCGCTTCATCGTGGGGT**GAGGTAGCG**c 80922
 80896 c**CGCAAGTAG**CACCCCACTCCATCGCg 80922

⊕ ZFN-unknown-SP-7-299
 80940 cCGCGCCCGCCACGAGC**GGGSCCTGT**t 80966
 80940 g**GCGCGGCG**GTGCTCGCCCGGACaA 80966

⊕ ZFN-unknown-SP-6-302
 81170 aACCAACTCCCAGATG**GATGGGTGC**g 81195
 81170 t**TGGTTAGG**GTCTACCTACCCACGc 81195

⊕ ZFN-unknown-SP-6-303
 81269 tCTCGTCGTCTCCAC**GGGGGTGT**g 81294
 81269 a**GAGCAGCAG**GAGGTGCCCCACAAc 81294

⊕ ZFN-unknown-SP-6-304
 81272 cGTCGTCTCCACGG**GGTGTGGG**c 81297
 81272 g**CAGCAGAG**GTGCCCCACAACCCg 81297

⊕ ZFN-unknown-SP-7-300
 81638 gGTCTGCGGCCGGGCTG**GGGGGCGCG**t 81664
 81638 c**CAGACGCG**GCCCCACCCCCCGCa 81664

⊕ ZFN-unknown-SP-5-284
 81638 gGTCTGCGGCCGGG**CTGGGGGCG**c 81662
 81638 c**CAGACGCCG**GCCCCACCCCCCGc 81662

⊕ ZFN-unknown-SP-7-301
 82028 cGCATACCCGAGGTG**CGCCGTCGT**c 82054
 82028 g**CGTAITGGG**CTCCACGCGGCAGCAGa 82054

⊕ ZFN-unknown-SP-5-285
 82041 gTGCGCCGTCGTCTC**GGTGACGAC**g 82065
 82041 c**ACGCGGCA**GCAGAGCCACTGCTGc 82065

⊕ ZFN-unknown-SP-5-286
 82044 cGCCGTCTCTCGGT**GACGACGGA**c 82068
 82044 g**CGGCAGCAG**AGCCACTGCTGCCTg 82068

⊕ ZFN-unknown-SP-5-287
 82190 cGACCACGGCGTACA**GGCGGTGCC**c 82214
 82190 g**CTGGTGCCG**CATGTCCGCCACGGg 82214

⊕ ZFN-unknown-SP-5-288
 82375 aGGCTGCTGCCACCT**TCGGGAGGC**t 82399
 82375 t**CCGACGACG**GGTGGAGCCCTCCGa 82399

⊕ ZFN-unknown-SP-6-305
 82378 cTGCTGCCACCTCGG**GAGGCTGGG**g 82403
 82378 g**ACGACGGT**GGAGCCCTCCGACCCc 82403

⊕ ZFN-unknown-SP-7-302
 82382 tGCCCACCTCGGGAGGC**TGGGGGGA**g 82408
 82382 a**CGGGTGGAG**CCCTCCGACCCCCCTc 82408

⊕ ZFN-unknown-SP-5-289
 82382 tGCCCACCTCGGGAG**GCTGGGGG**g 82406
 82382 a**CGGGTGGAG**CCCTCCGACCCCCc 82406

⊕ ZFN-unknown-SP-5-290
 82467 gCGCAGCAGCTGCTC**GATGTGTG**Cg 82491
 82467 c**GCGTCGTCG**ACGAGCTACAACAGc 82491

⊕

ZFN-unknown-SP-5-291
82470 cAGCAGCTGCTCGATGTTGTCGGCc 82494
82470 gTCGTCGACGAGCTACAACAGCCGg 82494

⊕ ZFN-unknown-SP-7-303
82812 gCTAGGCGGCCCCGACGGGGAGCAGCCc 82838
82812 cGATCCGCCCGGGCTGCCCTCGTCGcg 82838

⊕ ZFN-unknown-SP-6-306
82839 gGACAGCGGCGTGGCCGGGGTGGTGg 82864
82839 cCTGTCGCCCGCACCGGCCACCAc 82864

⊕ ZFN-unknown-SP-7-304
82968 aAACTCCCCACGAGCGTGCGCCCAg 82994
82968 tTTGAGGGGGTGCTCGCACGCGCGTc 82994

⊕ ZFN-unknown-SP-5-292
82970 aCTCCCCACGAGCGTGCGCCCAg 82994
82970 tGAGGGGGTGCTCGCACGCGCGTc 82994

⊕ ZFN-unknown-SP-5-293
83037 cGCCAGCGTCTGGCTGAGGACGCCg 83061
83037 gCGGTCGCACACCGACTCCTGCGGc 83061

⊕ ZFN-unknown-SP-7-305
83388 cTGCTGCAGCAGCGGAGGAGCCCGTTg 83414
83388 gACGACGTCTCGCGCTCCTCGGCAAc 83414

⊕ ZFN-unknown-SP-7-306
83391 cTGCAGCAGCGGAGGAGCCGTTGCTg 83417
83391 gACGTCGTCTCGCTCCTCGGCAACg 83417

⊕ ZFN-unknown-SP-7-307
83430 gGGCGGCTCCCTAGCTGCAGCAGGCc 83456
83430 cCCGCCGAGGGGATCGACGTCGTCCGg 83456

⊕ ZFN-unknown-SP-5-294
83439 cCCTAGCTGCAGCAGGCCGGTGACg 83463
83439 gGGATCGACCTCGTCCGGCCACTGc 83463

⊕ ZFN-unknown-SP-5-295
83442 tAGCTGCAGCAGGCCGGTGACGGCc 83466
83442 aTCGACGTCTCCGGCCACTGCCGg 83466

⊕ ZFN-unknown-SP-6-307
83544 cGCCATCAGCGTCCCCGGGGGCGCGc 83569
83544 gCGGTAGTCTCGAGGGGCCCCGCGCg 83569

⊕ ZFN-unknown-SP-6-308
83567 cGCAGCCGACCGCGGGGCTGACGCGg 83592
83567 gCGTGCGGCTGGGCCCCGACTGCGCc 83592

⊕ ZFN-unknown-SP-5-296
83568 gCACGCCGACCGCGGGGCTGACGCGg 83592
83568 cGTGCGGCTGGCGCCGACTGCGCc 83592

⊕ ZFN-unknown-SP-5-297
83571 cGCCGACCGCGGGCTGACGCGCTt 83595
83571 gCGGCTGGCGCCCGACTGCGCCGAa 83595

⊕ ZFN-unknown-SP-5-298
83587 aCGCGGCTTAGGGCGGTCGACACGc 83611
83587 tCGCGCGAATCCGCCAGTGTGCg 83611

⊕ ZFN-unknown-SP-7-308
83720 gGACCACCGCGCCCCGATCGGGGGTCg 83746

83720 cCTGGTGGCGCGGGGCTAGCCCCAGc 83746

⊕ ZFN-unknown-SP-7-309
83723 cCACCGCGCCCGATCGGGGTCGTca 83749
83723 gGTGGCGCGGGGCTAGCCCCAGAGt 83749

⊕ ZFN-unknown-SP-5-299
83801 gGGCGGCTCGTCGATGGCGCTGTAg 83825
83801 cCCGCGCGAGCAGCTACGCGACATc 83825

⊕ ZFN-unknown-SP-5-300
83804 cGGCGTCGTGATGCGCTGTAGGTg 83828
83804 gCCGCGCGAGCTACGCGACATCCAc 83828

⊕ ZFN-unknown-SP-6-309
84056 aCTCCACGGCACACTGGCGGACGCGc 84081
84056 tGAGGTGCCGTGTGACCGCCTGCGCg 84081

⊕ ZFN-unknown-SP-6-310
84078 gCGCACCGGCCCCAGGGCCGCGGTg 84103
84078 cGCGTGGCGGGGTCCCGCGGCACc 84103

⊕ ZFN-unknown-SP-6-311
84081 cACCGGCCCGAGGGCCGCCGTGTCg 84106
84081 gTGGCCGGGGTCCCGCGGCACCAc 84106

⊕ ZFN-unknown-SP-7-310
84113 cGGCGGCCTCCAGCGCGTGGGTCTGTt 84139
84113 gCCGCGGAGGTCGCGCACCCAGCACa 84139

⊕ ZFN-unknown-SP-5-301
84231 gTGACCCAGCAGCCCGGGAGGTTc 84255
84231 cACGTGGTCTCGGGCCCTCCAAg 84255

⊕ ZFN-unknown-SP-6-312
84363 gCCCGACAACAGAAACGCCGCCGTGg 84388
84363 cGGGCTGTGTCTTTGCGGCGGACc 84388

⊕ ZFN-unknown-SP-6-313
84435 gCCCGCGGCTCGCTCGAGGGGAGg 84460
84435 cGGGCGGCGGAGCGAGCTCCCCCTCc 84460

⊕ ZFN-unknown-SP-7-311
84639 cTGCCGCGCCCTATACGGAGGGGCTa 84665
84639 gACGGCGGCGGGATATGCCTCCCCGAt 84665

⊕ ZFN-unknown-SP-6-314
84937 aGCCGCTTTCGCCGTGAGGGTGCGt 84962
84937 tCGGCGGAAGCGGGCACTCCACGCa 84962

⊕ ZFN-unknown-SP-6-315
84940 cGCCTTCGCCCGTGAGGGTGCGTg 84965
84940 gCGGAAGCGGGCACTCCACGCACAc 84965

⊕ ZFN-unknown-SP-7-312
85073 cCACTCCCGACAGCCCCGATGGCGTGg 85099
85073 gGTGAGGGCTTCGGGGCTACCGCACc 85099

⊕ ZFN-unknown-SP-7-313
85080 cGACAGCCCCGATGGCGTGGGCCGAGa 85106
85080 gCTGTGCGGGCTACCGCACCCGGCTct 85106

⊕ ZFN-unknown-SP-6-316
85172 cGCCCGCCCATCGCTCGCCGCGACGg 85197
85172 gCGGCGGGTAGCGAGCGGCGTGCCc 85197

⊕

ZFN-unknown-SP-7-314
 85515 gGCAGACCGAGCGACTG**GCCGAGGCC**t 85541
 85515 c**CGTCTGGCT**CGCTGACCGGCTCCGg 85541

+ ZFN-unknown-SP-5-302
 85696 gACCAACTACGGCGG**GACGCGGG**c 85720
 85696 c**TGGTTGATG**CCGCCCTGCGCCGg 85720

+ ZFN-unknown-SP-7-315
 85843 tAGCGTCACCGCCGTCT**GACGCGGAC**c 85869
 85843 a**TGCGAGTGG**CGCAGACGTCGCCTGg 85869

+ ZFN-unknown-SP-5-303
 85845 gCGTCACCGCCGTCT**GACGCGGAC**c 85869
 85845 c**GCAGTGGCG**GCAGACGTCGCCTGg 85869

+ ZFN-unknown-SP-7-316
 86060 cTCCCCCGCGCGGACT**GGAAGCGGC**c 86086
 86060 g**AGGGGGGCG**CGCCTGACCTCCGCCGg 86086

+ ZFN-unknown-SP-5-304
 86317 cGCCGCCCTTCGAG**ACTGGGTGT**c 86341
 86317 g**CGGGGGAAG**CGTCTCGACCCAGg 86341

+ ZFN-unknown-SP-7-317
 86670 tACACCCCTGACTCA**GGAGATAGG**c 86696
 86670 a**TGTGGGGG**ACTGAGTCTCTATCCg 86696

+ ZFN-unknown-SP-6-317
 86727 tCGCACCCACCCCT**TGTGCCGGG**g 86752
 86727 a**GCGTGGGGT**GGGACACACGGCCCc 86752

+ ZFN-unknown-SP-5-305
 86728 cGCACCCACCCCT**TGTGCCGGG**g 86752
 86728 g**CGTGGGGTG**GGGACACACGGCCCc 86752

+ ZFN-unknown-SP-7-318
 86959 cGCCTCCACGGGCC**CGCCGCTGT**t 86985
 86959 g**GCGAGGGT**GCCCGGGCGGCACAAa 86985

+ ZFN-unknown-SP-6-318
 86960 cGCCTCCACGGGCC**GCCGCTGT**t 86985
 86960 g**GCGAGGTG**CCCGGGCGGCACAAa 86985

+ ZFN-unknown-SP-7-319
 87037 cTGCCGCATCCGCCCT**GCCGGAGCG**c 87063
 87037 g**ACGGCGTAG**GCGGAGCGGCTCGCg 87063

+ ZFN-unknown-SP-6-319
 87320 aAAGTTCGAGCCGG**GGGGATGGC**c 87345
 87320 t**TTGCAGCGT**CGGCCGCCCTACCGg 87345

+ ZFN-unknown-SP-7-320
 87347 aACCGCGTCGTGGCGC**TGGCGGAA**c 87373
 87347 t**TGGCGGAG**CACCGCGAGCGCCTTg 87373

+ ZFN-unknown-SP-6-320
 87536 gGGCGGCGCCGAG**GACGTCGGG**g 87561
 87536 c**CGCCGGCGG**CTCTTCCTGCAGCCCc 87561

+ ZFN-unknown-SP-5-306
 87698 cAGCGACTCCGACT**GCGGTCGGA**c 87722
 87698 g**TGCTGAGG**CTGAGCGCCAGCCTg 87722

+ ZFN-unknown-SP-7-321

87700 gCGACTCCGACTCGCGGTCGGACGACt 87726
87700 cGCTGAGGCTGAGCGCCAGCCTGCTGa 87726

⊕ ZFN-unknown-SP-6-321
87701 cGACTCCGACTCGCGGTCCGGACGACt 87726
87701 gCTGAGGCTGAGCGCCAGCCTGCTGa 87726

⊕ ZFN-unknown-SP-7-322
87874 cGTCGGCCGACTCCGATTCGCGGGCCc 87900
87874 gCAGCCGGCTGAGGCTAAGGCGCCGGg 87900

⊕ ZFN-unknown-SP-7-323
87901 aCGCCGCCGACCCAGGCGGACGTg 87927
87901 tGCGCGGGCTGGGGTCCGCCTGCACc 87927

⊕ ZFN-unknown-SP-7-324
87904 cGCGCGACCCAGGCGGACGTGGCGc 87930
87904 gGCGGCGTGGGTCCGCCTGCACCGg 87930

⊕ ZFN-unknown-SP-6-322
87991 tCACGCCCGAGAACGCGGAGGCGGTg 88016
87991 aGTGCGGGCTTTGCGCCTCCGCCAc 88016

⊕ ZFN-unknown-SP-7-325
87991 tCACGCCCGAGAACGCGGAGGCGGTg 88017
87991 aGTGCGGGCTTTGCGCCTCCGCCAc 88017

⊕ ZFN-unknown-SP-6-323
88104 gTGCCCCACGAACCTTCGGCAGCGc 88129
88104 cACGGGGGTGCTTGAAGCCGTGCGg 88129

⊕ ZFN-unknown-SP-6-324
88127 cGCCCCCGCCTCACGGAGGACGACt 88152
88127 gCGGGGGGGGAGTGCCTCCTGCTGa 88152

⊕ ZFN-unknown-SP-5-307
88128 gCCCCCGCCTCACGGAGGACGACt 88152
88128 cGGGGGGCGGAGTGCCTCCTGCTGa 88152

⊕ ZFN-unknown-SP-6-325
88641 aTGCGCCACATCGCCC TGGGGCGACa 88666
88641 tACGCGGTGTAGCGGACCCCGTGT 88666

⊕ ZFN-unknown-SP-5-308
88943 gGTCTCGACTCCCTGGTGGCGGCGg 88967
88943 cCAGGAGCTGAGGGACCACCGCCGc 88967

⊕ ZFN-unknown-SP-6-326
88943 gGTCTCGACTCCCTG GTGGCGGCGc 88968
88943 cCAGGAGCTGAGGGACCACCGCCGg 88968

⊕ ZFN-unknown-SP-5-309
88980 aGCACGCGCCCCACC GGGGCGTGCg 89004
88980 tCGTGCGCGGGGTGGCCCCGACGc 89004

⊕ ZFN-unknown-SP-6-327
89054 gGGCGTCTCGCCGGCGAGGAGGCCc 89079
89054 cCCGCAGGAGCGGCCGCTCCTCCGGg 89079

⊕ ZFN-unknown-SP-5-310
89096 cTTCAGCGCCCTCTGGATGCCGGAc 89120
89096 gAAGTCGCGGAGACCTACGGCTg 89120

⊕ ZFN-unknown-SP-6-328
89372 cATCTACGACACGCAAGGGGCGGGCa 89397
89372 gTAGATGCTGTGCGTTCCCCGCCGgt 89397

⊕ ZFN-unknown-SP-5-311
 89522 gCTCCGCGACGCGT**GCAGGCGTG**c 89546
 89522 c**GAGGCGCTG**CGGCACGTCCGCACg 89546

⊕ ZFN-unknown-SP-7-326
 89709 aACACACATTCGCCGA**GGTGATGCT**g 89735
 89709 t**TGTGTGTGT**AGCGGCTCCACTACGAc 89735

⊕ ZFN-unknown-SP-5-312
 89711 cACACACATCGCCGA**GGTGATGCT**g 89735
 89711 g**TGTGTGTAG**CGGCTCCACTACGAc 89735

⊕ ZFN-unknown-SP-5-313
 89714 aCACATCGCCGAGGT**GATGCTGCT**c 89738
 89714 t**GGTAGCGG**CTCCACTACGACAg 89738

⊕ ZFN-unknown-SP-7-327
 89786 cTTCAGCCACTTTAAGC**GCAGCATGT**a 89812
 89786 g**AAGTCGGTG**AAATTGCGTCTGTACAt 89812

⊕ ZFN-unknown-SP-7-328
 89947 cCGCCTCGGCCAGATC**TCGGACGTC**a 89973
 89947 g**GCGGAGCGG**GGTCTAGAGCCTGCAGt 89973

⊕ ZFN-unknown-SP-6-329
 90767 cGGCCGCGGACGACCT**GGTGACGGA**a 90792
 90767 g**CCGGCGCCT**GCTGGACCACTGCCTt 90792

⊕ ZFN-unknown-SP-5-314
 90885 cTACAACATCATCCA**GCTGGTGCT**c 90909
 90885 g**ATGTTGTAG**TAGGTCGACCACGAg 90909

⊕ ZFN-unknown-SP-6-330
 91137 cGACCTCATCAGCCGC**GACGAGGCC**g 91162
 91137 g**CTGGAGTAG**TCGGCGCTGCTCCGGc 91162

⊕ ZFN-unknown-SP-6-331
 91140 cCTCATCAGCCGCGAC**GAGGCCGTG**c 91165
 91140 g**GAGTAGTCG**GCGCTGCTCCGGCACg 91165

⊕ ZFN-unknown-SP-7-329
 91185 cATCTACAACAACCTACC**TCGGGGGCC**a 91211
 91185 g**TAGATGTTG**TTGATGGAGCCCCGGt 91211

⊕ ZFN-unknown-SP-7-330
 91458 cACCAACTTCTTCGAGT**GCCGCAGCA**c 91484
 91458 g**TGGTTGAAG**AAGCTACGGCGTCGTg 91484

⊕ ZFN-unknown-SP-6-332
 91476 cCGCAGCACCTCGTAC**GCCGGGGCC**g 91501
 91476 g**GCGTCGTGG**AGCATCGGGCCCCGGc 91501

⊕ ZFN-unknown-SP-7-331
 91497 gCCCGTCGTCAACGATC**TGTGAGGGT**c 91523
 91497 c**GCGCAGCAG**TTGCTAGACACTCCCAg 91523

⊕ ZFN-unknown-SP-5-315
 92031 gTGCTCCACGAGCTC**GGCGATGGT**c 92055
 92031 c**ACGAGGTGG**TCGAGCCGTACCAg 92055

⊕ ZFN-unknown-SP-5-316
 92225 cACCGGCGACGTCCG**GGGGCTGGA**g 92249
 92225 g**TGGCCGCTG**CAGGCCCCGACCTc 92249

⊕

ZFN-unknown-SP-5-317
 92228 cGGCGACGTCCGGGGGCTGGAGGGg 92252
 92228 gCGCTGCAGGCCCCGACCTCCc 92252

⊕ ZFN-unknown-SP-6-333
 92450 cGTCCTCGACGGACGCCTAGGTGTTa 92475
 92450 gCAGGAGCTGCTTGCATCCACAAt 92475

⊕ ZFN-unknown-SP-7-332
 92505 gAACAGCGCCAGAACTGCGGGTAACT 92531
 92505 cTTGTCGCGGTCCTTGACGCCATTGa 92531

⊕ ZFN-unknown-SP-5-318
 92541 gTACTGCAGCAGGTCCGGCAGTGa 92565
 92541 cATGACGTCGTCCAGCGCCGTCAc 92565

⊕ ZFN-unknown-SP-7-333
 93466 aACCGCCGCGCGCGCCGGTGCAGGCc 93492
 93466 tTGGCGGCGCGCGCGCCACGTCCGg 93492

⊕ ZFN-unknown-SP-6-334
 93703 cCGCGCTCCGGGCCCAGTGACCGa 93728
 93703 gCGCGGAGGCCCGGCCACTGTGCT 93728

⊕ ZFN-unknown-SP-5-319
 93772 gCTCATCTTCCCGCGGTGCGGCCg 93796
 93772 cGAGTAGAAGGGCCGCCACGCCGc 93796

⊕ ZFN-unknown-SP-7-334
 93791 cGGCCGCGCCCCCTTTCGGAGGACg 93817
 93791 gCCGCGGCGGGGGAAAGCCTCCTGc 93817

⊕ ZFN-unknown-SP-7-335
 93794 cGCGCGCCCCCTTTCGGAGGACCGCa 93820
 93794 gCGCGCGGGGGAAAGCCTCCTGCGc 93820

⊕ ZFN-unknown-SP-6-335
 93795 cGCGCGCCCCCTTTCGGAGGACCGCa 93820
 93795 gCGCGGGGGGAAAGCCTCCTGCGc 93820

⊕ ZFN-unknown-SP-7-336
 94190 gGACGACCGCTCCGACGGAGAGGCCGg 94216
 94190 cCTGCTGGGCGAGGCTGCCTCTCCGc 94216

⊕ ZFN-unknown-SP-7-337
 94193 cGACCGGTCCGACGGAAGGCCGTGg 94219
 94193 gCTGGCGCAGGCTGCCTCTCCGGCACc 94219

⊕ ZFN-unknown-SP-7-338
 94196 cCGCGTCCGACGGAGAGGCCGTGGAGc 94222
 94196 gCGCAGGCTGCCTCTCCGGACCTCg 94222

⊕ ZFN-unknown-SP-7-339
 94312 aAGCCCCAGCTCACGAAAGGTGGTGAAC 94338
 94312 tTCGGGGTCAGTGCTTCCACCACTTg 94338

⊕ ZFN-unknown-SP-6-336
 94431 tGCCGCCCGCAGGAGGGCGCGTCGt 94456
 94431 aCGGGGGGGGCTCCTCCCGCGCAGCa 94456

⊕ ZFN-unknown-SP-6-337
 94548 cACACACCGCACATTCTCGGTGCTCg 94573
 94548 gTGTGTGGCGTGTAAGAGCCACCAc 94573

⊕ ZFN-unknown-SP-6-338
 94551 aCACCGCACATTCTCGGTGCTCg 94576

94551 tGTGGCGTGTAGAGCCACCAGCAGc 94576

⊕ ZFN-unknown-SP-5-320
94575 cGACGACTGCAGCATCGGGCGGTc 94599
94575 gCTGCTGACCCTCGTACGCCGCCAg 94599

⊕ ZFN-unknown-SP-5-321
94600 cTCCGGCGGCTCCAGGTCGGCGGGGg 94624
94600 gAGGCCGCCGAGGTCCAGCCGCCc 94624

⊕ ZFN-unknown-SP-6-339
94600 cTCCGGCGGCTCCAGGTCGGCGGGGg 94625
94600 gAGGCCGCCGAGGTCCAGCCGCCc 94625

⊕ ZFN-unknown-SP-5-322
94603 cGGCGGCTCCAGGTCGGCGGGGga 94627
94603 gCGCCGAGGTCCAGCCGCCCCct 94627

⊕ ZFN-unknown-SP-6-340
94603 cGGCGGCTCCAGGTCGGCGGGGGAc 94628
94603 gCGCCGAGGTCCAGCCGCCCCCTg 94628

⊕ ZFN-unknown-SP-5-323
94677 cACCGGCCCCAACGCGGTGTCGGGg 94701
94677 gTGGCCGGGTTGCGCCACAGCCGc 94701

⊕ ZFN-unknown-SP-5-324
94680 cGGCCCCAACGCGGTGTCGGCGGTg 94704
94680 gCGGGGTTGCGCCACAGCCGCCAc 94704

⊕ ZFN-unknown-SP-6-341
94680 cGGCCCCAACGCGGTGTCGGCGGTgt 94705
94680 gCGGGGTTGCGCCACAGCCGCCAc 94705

⊕ ZFN-unknown-SP-7-340
94817 aCTCCTCCTCCGAGCCGACCGCGGGGg 94843
94817 tGAGGAGGAGGCTCGGCTGCGCCGc 94843

⊕ ZFN-unknown-SP-6-342
94818 cTCCTCCTCCGAGCCGACGACGCGGGCg 94843
94818 gAGGAGGAGGCTCGGCTGCGCCGc 94843

⊕ ZFN-unknown-SP-7-341
94820 cCTCCTCCGAGCCGGACGCGGGCGACc 94846
94820 gGAGGAGGCTCGGCTGCGCCGCTGg 94846

⊕ ZFN-unknown-SP-6-343
94842 cGACCGCGGCGCCCAAGAAGAAg 94867
94842 gCTGGCGGCGCGGGGTCTTCTTCTc 94867

⊕ ZFN-unknown-SP-6-344
94845 cCGCGCGGCCAGAAAGAAAGGCc 94870
94845 gGCGCGCGGGGTCTTCTTCTCCGg 94870

⊕ ZFN-unknown-SP-7-342
94991 cGCGCGCCCCACGCGAGCCGAGTCGc 95017
94991 gCGCGCGGGGTCGCTCGGCTCAGCg 95017

⊕ ZFN-unknown-SP-6-345
94992 cGCCGCCCCACGCGAGCCGAGTCGc 95017
94992 gCGCGCGGGGTGCTCGGCTCAGCg 95017

⊕ ZFN-unknown-SP-5-325
95176 cCCTGACGGCAACGGGTGGTGGCCg 95200
95176 gGACTGCGCTTGCCACACCCGGc 95200

⊕

ZFN-unknown-SP-5-326
 95179 tGACGGCAACGGGTG**GTGGCCGAA**c 95203
 95179 a**CTGCCGTTG**CCACACCGGCTTg 95203

+ ZFN-unknown-SP-7-343
 95207 tCACCGCGCCGGGCAC**GCGGGGTGC**g 95233
 95207 a**GTGGCGCGG**GCCCCGTGCGCCCCACGc 95233

+ ZFN-unknown-SP-7-344
 95275 cCCTCCAACCAATATG**GCTGTCTGT**gt 95301
 95275 g**GGGAGGTTG**GTTATACGACAGCACA 95301

+ ZFN-unknown-SP-6-346
 95395 cAGCTTCACCGAGAGC**GCCGTCGGG**c 95420
 95395 g**TGGAAGTGG**CTCTCGCGGAGCCGc 95420

+ ZFN-unknown-SP-6-347
 95444 gACAGCCCCGGGT**CGCGGC**GGGa 95469
 95444 c**CTGTCTGGG**CCCCAGCGCCGCCc 95469

+ ZFN-unknown-SP-6-348
 95477 aCACTGCCTCGGAGGG**GATGATGGG**g 95502
 95477 t**GTGACGGAG**CCTCCCTACTACCCc 95502

+ ZFN-unknown-SP-6-349
 95513 cCCCCGCTCGCCTGC**GTGGGTGCC**a 95538
 95513 g**GGGCGGAG**CGGACGCACCCACGgt 95538

+ ZFN-unknown-SP-6-350
 95827 gGGCCCTACCGGC**GCTGCTGGT**g 95852
 95827 c**CCGCGGAT**GCGCCGCGACACCac 95852

+ ZFN-unknown-SP-5-327
 95828 gCCCGCTACCGGC**GCTGCTGGT**g 95852
 95828 c**GGCGGATG**CGCCGCGACACCAc 95852

+ ZFN-unknown-SP-6-351
 95903 tGTCCGCACCTGGGG**GTGTCTGTC**g 95928
 95903 a**CAGCCGTGG**GACCCCCAACAGCAGc 95928

+ ZFN-unknown-SP-5-328
 95921 tGTCGTGCGGGGT**GACGATAGG**c 95945
 95921 a**CAGCAGCCG**CCCGACTGCTATCCg 95945

+ ZFN-unknown-SP-6-352
 95977 gCGCCGCGCGGCC**TGACGGCGGC**g 96002
 95977 c**GCGGCGGCG**CCGGACTGCCGCCGc 96002

+ ZFN-unknown-SP-7-345
 95980 cCGCCGCGGCCCTGACG**GCGGCGGTG**g 96006
 95980 g**GCGGCGCGG**GGAAGTGCCTGCCGCCACc 96006

+ ZFN-unknown-SP-7-346
 95989 cCCTGACGGCGCGGT**GGTGCGGGG**c 96015
 95989 g**GGA**CT**GC**CGCCACACCGCCCGg 96015

+ ZFN-unknown-SP-6-353
 95989 cCCTGACGGCGCGGT**GGTGGCGGG**c 96014
 95989 g**GGA**CT**GC**CGCCACACCGCCCGg 96014

+ ZFN-unknown-SP-6-354
 96059 cCGCCACGCCGCTTT**TGCTGCT**Ct 96084
 96059 g**GCGGTGGCG**GCGAAAACGACAGAGa 96084

+ ZFN-unknown-SP-5-329

96060 cGCCACCGCGCTTT**TGCGTCGT**c 96084
 96060 g**CGGTGGCGG**CGAAAACGCAGCAGa 96084

⊕ ZFN-unknown-SP-6-355
 96074 tTGCCTCGTCTCCGCG**GTCTGAGTCT**c 96099
 96074 a**ACGCAGCG**AGGCGCCAGCTCAGAg 96099

⊕ ZFN-unknown-SP-7-347
 96165 aCGCACCCAGCGATC**TCCGCGGGT**c 96191
 96165 t**GCGTGGTGG**TCGCTAGAGGCGCCCAg 96191

⊕ ZFN-unknown-SP-6-356
 96346 aCGCGCGCGCGGCCT**GACGGAGCT**g 96371
 96346 t**GCGCGCGCG**CCCGGACTGCCTCGAc 96371

⊕ ZFN-unknown-SP-5-330
 96571 gGGCGGCCGCGACCC**TGCGGGGCC**t 96595
 96571 c**CGCGCGCGG**CTGGGACGCCCGGa 96595

⊕ ZFN-unknown-SP-5-331
 96602 cTCCGTCTACGATT**GGGGTTTGC**g 96626
 96602 g**AGGCAGATC**CGTAACCCAAACGc 96626

⊕ ZFN-unknown-SP-6-357
 96619 gTTTTGCGCGGGGGT**GCTGGTGCG**g 96644
 96619 c**CAACGCGCG**CCCCACGACCAACGc 96644

⊕ ZFN-unknown-SP-5-332
 96886 aGTTGTCCGCGGAG**GCGGTGGTT**t 96910
 96886 t**CAACAGGCG**CCCTCCGCCACCAa 96910

⊕ ZFN-unknown-SP-6-358
 96936 gCGCGCCACCGGTCC**TTCGCGGGG**g 96961
 96936 c**GCGCGGGTG**GCCAGGAAGCGCCc 96961

⊕ ZFN-unknown-SP-7-348
 97394 gAACGGCGCCTAGCTTA**GAGGAGGTG**a 97420
 97394 c**TTGCCGCGG**ATCGAATCTCTCCAc 97420

⊕ ZFN-unknown-SP-5-333
 97401 gCCTAGCTTAGAGGA**GGTGATGGT**a 97425
 97401 c**GGATCGAAT**CTCTCCACTACCA 97425

⊕ ZFN-unknown-SP-5-334
 97525 aGCCCAGCGCTGTAC**TGGTCTGTC**g 97549
 97525 t**CGGGCGCCG**ACATGAGCCAGCAGc 97549

⊕ ZFN-unknown-SP-7-349
 97696 aTCCACCCACGCGGT**GCTGGAAGG**c 97722
 97696 t**AGGTGGGGG**TGGCCACGACCTCCCg 97722

⊕ ZFN-unknown-SP-5-335
 97698 cCACCCCAACGCGGT**GCTGGAGGG**c 97722
 97698 g**GTGGGGTG**CGCCACGACCTCCCg 97722

⊕ ZFN-unknown-SP-7-350
 97865 cCGTCTCCACCGTGACC**TCCGCGGCC**g 97891
 97865 g**GCAGAGGTG**GCACGTGAGGCGCCGc 97891

⊕ ZFN-unknown-SP-6-359
 97866 cGTCTCCACCGTGACC**TCCGCGGCC**g 97891
 97866 g**CAGAGGTGG**CACTGGAGGCGCCGc 97891

⊕ ZFN-unknown-SP-5-336
 97877 tGACCTCCGCGGCG**TGGCGGGC**a 97901
 97877 a**CTGAGGGCG**CCGCGAGCGCCGgt 97901

⊕ ZFN-unknown-SP-5-337
 97914 cACCTTCACCTGCCA**GCTGACGT**Gg 97938
 97914 g**TGGAAGTGG**ACGGTCGACTGCACc 97938

⊕ ZFN-unknown-SP-6-360
 97979 gCACGGCATCGGTGCT**GCCGCGGCC**a 98004
 97979 c**GTCCTGTAG**CCACGACGGCGCCGgt 98004

⊕ ZFN-unknown-SP-5-338
 98091 gGACGACTCCTCGCC**GGCGGAGAA**g 98115
 98091 c**CTGCTGAGG**AGCGGCCGCCTCTTc 98115

⊕ ZFN-unknown-SP-6-361
 98093 aCGACTCCTCGCCGGC**GGAGAGGT**G 98118
 98093 t**GCTGAGGAG**CGGCCGCCTCTTCCAc 98118

⊕ ZFN-unknown-SP-6-362
 98096 aCTCCTCGCCGGCGG**AGAGGTGGC**c 98121
 98096 t**GAGGAGCGG**CCGCCTCTTCCACCGg 98121

⊕ ZFN-unknown-SP-6-363
 98691 cCCCCGCGCCTCCCC**GGCGCGGGC**t 98716
 98691 g**GGGGCGCGG**GAGGGCCGCGCCCGa 98716

⊕ ZFN-unknown-SP-5-339
 99145 aCGTAACGCCCTGGG**GTTGCCGT**Ga 99169
 99145 t**GCAATTGCGG**GACCCCAACGGCACt 99169

⊕ ZFN-unknown-SP-5-340
 99218 cACCCACCGACCAAC**GACGGCGTT**t 99242
 99218 g**TGGGTGGGT**GGTTGCTGCCGCAa 99242

⊕ ZFN-unknown-SP-5-341
 99456 gAGCTTCGTCAACAG**GGCGCTGAG**g 99480
 99456 c**TCGAAGCAG**TTGTCCCGGACTCc 99480

⊕ ZFN-unknown-SP-5-342
 99459 cTTCTCAACAGGGC**GCTGAGGGC**g 99483
 99459 g**AAGCAGTTG**TCCCGCGACTCCCGc 99483

⊕ ZFN-unknown-SP-5-343
 99576 gCCCCGCCGAGGGGA**GAGAGGGC**a 99600
 99576 c**CGGGCGGGT**CCCTCTTCTCCCGt 99600

⊕ ZFN-unknown-SP-5-344
 99671 cGGCCCCGCCGCAAG**ACGCCGGC**g 99695
 99671 g**CCGGGGCGG**CCGTTCTGCGGCCGc 99695

⊕ ZFN-unknown-SP-6-364
 99779 aATCTGCGTCCTCGGA**GGGGCGCGC**g 99804
 99779 t**TAGACGCAg**GAGCCTCCCCCGCGCc 99804

⊕ ZFN-unknown-SP-6-365
 99782 cTGCGTCTCGGAGGG**GGCGCGGGG**g 99807
 99782 g**ACGCAGGAG**CCTCCCCCGCGCCCCc 99807

⊕ ZFN-unknown-SP-6-366
 99827 aGGCGGCGGCGGGT**GGTGTGGC**g 99852
 99827 t**CCGCGCGCG**CCGCCACACAGCCGc 99852

⊕ ZFN-unknown-SP-7-351
 99830 cGGCGGCGGCGGTGGT**TCGGCGGCG**g 99856
 99830 g**CCGCCGCCG**CCACCACAGCGCCGc 99856

⊕

ZFN-unknown-SP-6-367
 99830 cGGCGGCGCGGTGGTGTCTGGCGGCg 99855
 99830 gCGCGCGCGCCACACAGCCGCCGc 99855

+ ZFN-unknown-SP-5-345
 99890 cGGCGTCATCGTCGGGCAGCAGATa 99914
 99890 gCGCAGTAGCAGCCCGTCGTCTa 99914

+ ZFN-unknown-SP-5-346
 99893 cGTCATCGTCGGGACGACGATACGt 99917
 99893 gCAGTAGCAGCCGTCGTCTATGCa 99917

+ ZFN-unknown-SP-5-347
 100013 gCGCCGCGGCTGCCGGCCGCTGCTc 100037
 100013 cGGGGGGGACGGCCGGCGACGAg 100037

+ ZFN-unknown-SP-6-368
 100023 tGCCGGCCGCTGCTCGGGGGCGCGc 100048
 100023 aCGCGCGCGACGAGCCCCCGCGCc 100048

+ ZFN-unknown-SP-6-369
 100026 cGGCCGCTGCTCGGGGGCGCGGGt 100051
 100026 gCGGGGACGAGCCCCCGCGCCCa 100051

+ ZFN-unknown-SP-7-352
 100133 gGTCGGCCGCTCGACGTGCGGGGGCt 100159
 100133 cAGCGGGCGCAGCTGCACGCCCCGa 100159

+ ZFN-unknown-SP-5-348
 100136 cGGCCGCGTCGACGTGCGGGGGCTc 100160
 100136 gCGGGGACGTCGACGCCCCGAGa 100160

+ ZFN-unknown-SP-5-349
 100180 cGCCTGCACCTCCGAGGGGCCGCGc 100204
 100180 gCGGACGTGAGGCTCCCCGGCGCc 100204

+ ZFN-unknown-SP-5-350
 100183 cTGCACTCCGAGGGGCCGCGCGGGGg 100207
 100183 gACGTGGAGCTCCCCGGCGCCCa 100207

+ ZFN-unknown-SP-6-370
 100185 gCACCTCCGAGGGGCCGCGGGGGTCg 100210
 100185 cTGGAGGCTCCCCGGCGCCCCAGc 100210

+ ZFN-unknown-SP-7-353
 100279 cAGCTCCCGCCGACCGCGCCGCGGCCc 100305
 100279 gTCGAGGCGCGCTGGCGCGGCGCCGg 100305

+ ZFN-unknown-SP-7-354
 100294 gCGCCGCGGCCCCCCGGTGGGCGGGAc 100320
 100294 cGGGGCGCGGGGGGACCCGGCCTg 100320

+ ZFN-unknown-SP-6-371
 100604 gAACCTCGACGGTCGAGACGATGGCg 100629
 100604 cTTGGAGCTCCAGCTCTGCTACGCc 100629

+ ZFN-unknown-SP-6-372
 101022 gCGCAACCCGCCACCGCGCGGGCt 101047
 101022 cGGTTGGGGCGGTGGCGCCGCCGCa 101047

+ ZFN-unknown-SP-7-355
 101036 cCGCGCGGCGTACTTGCGCGCGCGc 101062
 101036 gGCGCGCGCATGAACCGCGCCGCc 101062

+ ZFN-unknown-SP-7-356
 101082 gCGCACAGCAGCTTCGGGAGCAGGt 101108

101082 cGGTGGTCCTCGAAGCCCTCGTCCCa 101108

⊕ ZFN-unknown-SP-6-373
 101259 gAGCGCTGCTTGGCGGCCGACGCGt 101284
 101259 cTCCGGGACGAACCGCGGTCGCGa 101284

⊕ ZFN-unknown-SP-5-351
 101400 aAACCGCGCTGCAGGTCGTCCGGCg 101424
 101400 tTTCGGGCCGACGTCCAGCAGCCGc 101424

⊕ ZFN-unknown-SP-5-352
 101403 cGCCGGCTGCAGGTCTCGGCCGCg 101427
 101403 gCGCGCGACCTCCAGCAGCGCGg 101427

⊕ ZFN-unknown-SP-5-353
 101414 gGTCGTCGGCGCGCTGCCGCAGGAc 101438
 101414 cCAGCAGCCGCGCGACGGCGTCCTg 101438

⊕ ZFN-unknown-SP-6-374
 101435 gGACGCCACGGCCGCGCTGAGGAGc 101460
 101435 cCTCGGGTCCCGGCGGACTCCTCg 101460

⊕ ZFN-unknown-SP-7-357
 101457 gAGCCCCCCTCGGGGTGGGGAGCAGACa 101483
 101457 cTGGGGGAGCCCCACCCCTCGTCTGt 101483

⊕ ZFN-unknown-SP-5-354
 101480 gACACCCGGCGAAGATGCGCCGCTc 101504
 101480 cTGTGGGCCGCTTCTACGGCGGAGg 101504

⊕ ZFN-unknown-SP-5-355
 101618 gGGCCCCCGCGGTCCGGAGGTATGCc 101642
 101618 cCGGGGGGGCCAGCCTCCATACGg 101642

⊕ ZFN-unknown-SP-6-375
 101960 cGTCCGCCCAAAATTTGGCGGGGTg 101985
 101960 gCAGGGGGTTTTAAACCGCCCCAc 101985

⊕ ZFN-unknown-SP-7-358
 101960 cGTCCGCCCAAAATTTGCGGGGTGg 101986
 101960 gCAGGGGGTTTTAAACCGCCCCAc 101986

⊕ ZFN-unknown-SP-5-356
 102170 cCGCCGCTCGTCCCTGCGCCGGCg 102194
 102170 gGCGCGCAGCAGGGACGCGGCCGc 102194

⊕ ZFN-unknown-SP-5-357
 102173 cCGCCTCGTCCCTGCGCCGGCGCGc 102197
 102173 gGCGCAGCAGGGACGCGCGCGCGg 102197

⊕ ZFN-unknown-SP-7-359
 102298 aGCAGGCGCGCGCCGCGGTGTCGCCc 102324
 102298 tCGTCCGCCGCGCGGCGCCACAGCGGg 102324

⊕ ZFN-unknown-SP-6-376
 102321 gCCACGCGCTCGTGCTTCGGCCGCCa 102346
 102321 cGGGTTCGGCAGCACGAGCCGCGGt 102346

⊕ ZFN-unknown-SP-6-377
 102338 cGGCCGCCACGACCCCGGGCTGCCc 102363
 102338 gCCGGGGTCCTGGGGCCCCGACGGg 102363

⊕ ZFN-unknown-SP-6-378
 102395 cCACGTCCGCAACGCGGGTGGGCg 102420
 102395 gGTGCAGGCTTTGCGCCCCACCGCc 102420

⊕

ZFN-unknown-SP-6-379
 102542 tGACGGCGCGGGGTGAAGCGGGCg 102567
 102542 aCTGCGCGGCCCAACTTCGCCGc 102567

+ ZFN-unknown-SP-6-380
 102689 aGACGGCGCGTCGGGGCCGGGGTG 102714
 102689 tCTGCGCGCCAGCCCCGGCCCCACc 102714

+ ZFN-unknown-SP-6-381
 102692 cCGCGCGCTCGGGGCCGGGTGGGGg 102717
 102692 gGCGCGCAGCCCCGCCCCACCCc 102717

+ ZFN-unknown-SP-5-358
 102725 cCCCTCCCGCGCTGAGCAGCGGCAc 102749
 102725 gGGGAGGGCCGACTCGTCGCCGg 102749

+ ZFN-unknown-SP-5-359
 102752 cGGCGCCCCACGGGCGCGCAACGc 102776
 102752 gCGCGGGGGTGCCCGCGTTGc 102776

+ ZFN-unknown-SP-6-382
 102829 gAGCCGCGCCCTCCGTGTGCAGGCG 102854
 102829 cTCGGCGGGGGAGGCACACGTCCGc 102854

+ ZFN-unknown-SP-7-360
 102984 gGCCAGCGCCTCGCCCTGCTGCAGCGt 103010
 102984 cCGGTGCGGGAGCGGGACGACGTCGCa 103010

+ ZFN-unknown-SP-6-383
 103259 gGCCGTCATCGTGCGCGGACGGCGGCG 103284
 103259 cCGGCAGTAGCACGCGTGCCGCCGc 103284

+ ZFN-unknown-SP-6-384
 103271 gCGCGACGGCGCGGGGTAGTCGTCCc 103296
 103271 cGCGTGCGCCCGCCCCATCAGCAGg 103296

+ ZFN-unknown-SP-7-361
 103499 gCGCCGCGCCCGGGGCCTCGGACGCGc 103525
 103499 cGCGCGGGCCGGCCCGAGCCTGCGCg 103525

+ ZFN-unknown-SP-5-360
 103552 tCCCGGCGACGGCGCGGGGGCGGCT 103576
 103552 aGGGCGGCTCCGCGCCCCCGCCGa 103576

+ ZFN-unknown-SP-6-385
 103552 tCCCGGCGACGGCGCGGGGCGGGCTc 103577
 103552 aGGGCGGCTCCGCGCCCCCGCCAg 103577

+ ZFN-unknown-SP-6-386
 103595 cCGCGGCTCGACCTCGCTGCTCGTCg 103620
 103595 gGCGCGGAGCTGGAGCGACAGCAGc 103620

+ ZFN-unknown-SP-6-387
 103598 cGGCCTCGACCTCGCTGTCGTCGTCCc 103623
 103598 gCCGGAGCTGAGCGACAGCAGCAGg 103623

+ ZFN-unknown-SP-6-388
 103679 cGTCCTCCACGGGCGAGTCGGCGCGCa 103704
 103679 gCAGGAGGTCCCGCTCAGCCGCGct 103704

+ ZFN-unknown-SP-7-362
 103801 cGCCCTCCCGCAGACGGACGAGGAa 103827
 103801 gCGGAGGGCGCTCTGCTGCTCCTTt 103827

+ ZFN-unknown-SP-7-363

103804 cCTCCCCGACGACGGACGAGGAAAGGg 103830
 103804 gGAGGGGGCTCTGCCTGCTCCTTTCCc 103830

⊞ ZFN-unknown-SP-7-364
 103929 cGACCGCTCCAACAAGGgTGGGGGGGt 103955
 103929 gCTGGGGAGGTTGTTCCACCCCCCca 103955

⊞ ZFN-unknown-SP-6-389
 103929 cGACCGCTCCAACAAGGGTGGGGGGg 103954
 103929 gCTGGGGAGGTTGTTCCACCCCCCc 103954

⊞ ZFN-unknown-SP-5-361
 103932 cCGCTCCAACAAGGgTGGGGGGTg 103956
 103932 gGCGAGGTTGTTCCACCCCCCAc 103956

⊞ ZFN-unknown-SP-6-390
 103932 cCGCTCCAACAAGGgTGGGGGGTGg 103957
 103932 gGCGAGGTTGTTCCACCCCCCACc 103957

⊞ ZFN-unknown-SP-6-391
 104062 aCACGACCGCGGGCTCGTAGGCGCGa 104087
 104062 tGTGCTGGCCCGCGAGCATCCGCGct 104087

⊞ ZFN-unknown-SP-5-362
 104420 cCCCAGCATCTCCAAgTCCGAAGTCg 104444
 104420 gGGTCTGTAGAGGTTTCAGCTTCAGc 104444

⊞ ZFN-unknown-SP-5-363
 104423 cAGCATCTCCAAGTCGAAGTCGTc 104447
 104423 gTCGTAGAGCTTCAGCTTCAGCAGg 104447

⊞ ZFN-unknown-SP-5-364
 104473 cCTCCTCGCCGTCCAGGGGAGTTC 104497
 104473 gGAGGAGGGGCGAGGTCCGCCTCAAg 104497

⊞ ZFN-unknown-SP-6-392
 104494 gTTCGTCTCCAGGCTGACGTCGGTa 104519
 104494 cAAGCAGAGGTCCGACTGCAGCCAt 104519

⊞ ZFN-unknown-SP-6-393
 104608 cGTCATCGTCGTCCGGGAGGTCGAGc 104633
 104608 gCAGTAGCAGCAGGCCCTCCAGCTCg 104633

⊞ ZFN-unknown-SP-6-394
 104707 cGCCCCTCCGAGGTCGCgACGCTGGAg 104732
 104707 gCGGGAGGCTCCAGCGCTGCGACCTc 104732

⊞ ZFN-unknown-SP-5-365
 105152 cAGCATCTCCCGCAGGTCCGCGTTg 105176
 105152 gTCGTAGAGGGGTCTCCAGCGCCAAc 105176

⊞ ZFN-unknown-SP-5-366
 105155 cATCTCCCGCAGGTCGCGGTTGCCg 105179
 105155 gTAGAGGGCTCCAGCGCCAACGCc 105179

⊞ ZFN-unknown-SP-7-365
 105691 gACCCCGGGCTGGCCTGGGGGGGTg 105717
 105691 cTGGGGGGCCGACCGACCCCCGCCAc 105717

⊞ ZFN-unknown-SP-5-367
 105691 gACCCCGGGCTGGCCTGGGGGGCGg 105715
 105691 cTGGGGGGCCGACCGACCCCCGCCc 105715

⊞ ZFN-unknown-SP-5-368
 105824 gCCCGCGCGCGAGAGGGGGGGAGg 105848
 105824 cGGGCGGCGCCTCTCCCCCCTCc 105848

⊕ ZFN-unknown-SP-7-366
 105824 gCCCGCGCGCGAGAGGGGGGAGGGa 105850
 105824 cGGGCGCGCCCTCTCCCCCTCCct 105850

⊕ ZFN-unknown-SP-7-367
 105881 cCCTCGCGAAGGAATCGCCGGGGTg 105907
 105881 gGAGCGGCTTCCCTTAGCGGCCCAc 105907

⊕ ZFN-unknown-SP-5-369
 106009 gCCCGTCCCCCGCGCTCGGAAGGga 106033
 106009 cGGCAGGGGCGCGAGCCTTCCct 106033

⊕ ZFN-unknown-SP-5-370
 106320 gGGCGGGCCCCGGCGGCGCGGTCg 106344
 106320 cCGCGGGGCCCCCGCGCCAGc 106344

⊕ ZFN-unknown-SP-6-395
 106330 gGGCGGCGCGGTCGCGTCGACGTCc 106355
 106330 cCGCGGGGCCAGCGCAGTCGAGg 106355

⊕ ZFN-unknown-SP-7-368
 106342 tCGCGTCGACGTCCTGCGCCGCTCGg 106368
 106342 aGGCGAGCTGCAGGACGCGCGCAGCc 106368

⊕ ZFN-unknown-SP-5-371
 106456 gGTCTTCGTCGGTGTGCGGCCGCGa 106480
 106456 cCAGAGCAGCCACACGCCGGCGct 106480

⊕ ZFN-unknown-SP-7-369
 106527 aGGCGCCGACCGCGCGCAGAAAGACg 106553
 106527 tCGCGGGCTGGCGCGCGTCTTCTGc 106553

⊕ ZFN-unknown-SP-6-396
 106531 gCCCGACCGCGGCGCAGAAGACGCGc 106556
 106531 cGGCTGGCGCCGCGTCTTCTGCGc 106556

⊕ ZFN-unknown-SP-7-370
 106583 cCAGCGCCCGTGGGGCTCGGTGGGc 106609
 106583 gGTGCGGGGCACCCCGAGCCACCCc 106609

⊕ ZFN-unknown-SP-5-372
 106716 gGTCGCCTGCCGCGGGCGGGTCCg 106740
 106716 cCAGCGGACGCGCGCCGCCAGCc 106740

⊕ ZFN-unknown-SP-7-371
 106716 gGTCGCCTGCCGCGGGCGGGTCCGTc 106742
 106716 cCAGCGGACGCGCGCCGCCAGCAg 106742

⊕ ZFN-unknown-SP-6-397
 107017 gGCCAGCGCGCGGGGGAAGTCGTGc 107042
 107017 cCGGTCCGGCGCCGCTTACGAGc 107042

⊕ ZFN-unknown-SP-5-373
 107283 gCGTAACCCACGGGGCGCGGGGAg 107307
 107283 cGCATTGGGTGCCCCGGCGCCCTc 107307

⊕ ZFN-unknown-SP-5-374
 107599 gGACACCACCGGCGGTGTGCCCc 107623
 107599 cCTGTGGTGTGGCCGCGACAGCGg 107623

⊕ ZFN-unknown-SP-6-398
 107631 gCGCGTCCCATAACGCCGCTGCGc 107656
 107631 cCGCAGGGCTATTGCGGCGACGc 107656

⊕

ZFN-unknown-SP-5-375
 107652 gTGCGCCTGCCGCTTCGGGGGCTc 107676
 107652 cACGCGGACGGCGCAAGCCGCCAg 107676

⊞ ZFN-unknown-SP-5-376
 107740 tTTCCCGTCATCGCGGCGATGAGt 107764
 107740 aAGGGGACGTAGCGCCGCTACTCa 107764

⊞ ZFN-unknown-SP-6-399
 107800 cAGCACCAACCGGAATGCCGATGGGg 107825
 107800 gTCGTGGTTGCGCTTACGGCTACCCc 107825

⊞ ZFN-unknown-SP-7-372
 108185 tCCCTGCACCGGTTTCCGCAGTTGSCg 108211
 108185 aGGGACGTGGCCAAAGGCGTCAACCGc 108211

⊞ ZFN-unknown-SP-7-373
 108261 tCGCGACCGCCGGGGGGCGGTGGCCc 108287
 108261 aGCGCTGGCGGCCCGCCGCCACCGGg 108287

⊞ ZFN-unknown-SP-6-400
 108261 tCGCGACCGCCGGGGGGGCCGTGGCc 108286
 108261 aGCGCTGGCGGCCCGCCGCCACCGg 108286

⊞ ZFN-unknown-SP-7-374
 108492 gCGCGGCCGACGGACCAAGAGCCCTGCt 108518
 108492 cGCGCGGCTGCGTGGTCTCCGGACGa 108518

⊞ ZFN-unknown-SP-6-401
 108700 cCCCGACAACATCCACGAGGAGCGCGg 108725
 108700 gGGGCTGTTCTAGGTGCTCCTGCCGc 108725

⊞ ZFN-unknown-SP-6-402
 108703 cGACAACATCCACGAGGACGGCGCa 108728
 108703 gCTGTGTAGGTGCTCCTGCCCGTa 108728

⊞ ZFN-unknown-SP-6-403
 108816 aCGCCCCCAAGCAAAGCGGGGGCc 108841
 108816 tGCGGGGGCTTCGTTGCCCGCGg 108841

⊞ ZFN-unknown-SP-5-377
 108817 cGCCCCCAAGCAAAGCGGGGGCc 108841
 108817 gCGGGGGGTTTCGTTGCCCGCGg 108841

⊞ ZFN-unknown-SP-6-404
 108874 gCCTCGCGTCGGCCAGATGGGGCCc 108899
 108874 cGGAAGCGACCCGGTCTACCCCGGg 108899

⊞ ZFN-unknown-SP-6-405
 109008 cACAAACACACGGGTAGAGTGGAACc 109033
 109008 gTGTGTGTGTGCCATCTCACCTTGg 109033

⊞ ZFN-unknown-SP-6-406
 109214 gACCGACGCAACCTCCGGGGCTTGTg 109239
 109214 cTGGCTGCGTTGGAGGCCCGAACA 109239

⊞ ZFN-unknown-SP-7-375
 109291 tCCCTCCGCCAGAGCCGAGTGGAGa 109317
 109291 aGGGAGGCCGGTCTCGGCTCCACCTCt 109317

⊞ ZFN-unknown-SP-7-376
 109399 gCACGTCGCGCGACTTGTCCGCGGCCc 109425
 109399 cGTGAGGCGGCTGAACAGGCGCCGGg 109425

⊞ ZFN-unknown-SP-6-407
 109495 gCGCCGCAACGGCCCCGTCGATGGTg 109520

109495 cGGGCGTTGCCGGGGCAGCTACCAc 109520

⊕ ZFN-unknown-SP-6-408
 109501 cAACGGCCCCGTCGATGGTGGAGCCc 109526
 109501 gTTGCGGGGGCAGCTACCACCTCGGg 109526

⊕ ZFN-unknown-SP-7-377
 109598 gCGCGCCTTACGAGGCGCGGGGTGt 109624
 109598 cGCGCGAAGTGCTCCGCGGCCACAg 109624

⊕ ZFN-unknown-SP-6-409
 109639 gGGCGTCGTCGAGCGTGATGGGGGc 109664
 109639 cCCGAGCAGCTCGCACTACCCCGc 109664

⊕ ZFN-unknown-SP-6-410
 109703 cCGCGGCTCCGCCTCCGAGGGCGGA 109728
 109703 gGCGCGAGGCGGAGGCTCCGCCTc 109728

⊕ ZFN-unknown-SP-6-411
 109706 cGGCTCCGCCTCCGAGGGCGGAGCCg 109731
 109706 gCCGAGGGCGAGGCTCCGCCTCGGc 109731

⊕ ZFN-unknown-SP-7-378
 109708 gCTCCGCCTCCGAGGGCGGAGCCCGc 109734
 109708 cGAGGGGAGGCTCCGCCTCGGCGCc 109734

⊕ ZFN-unknown-SP-6-412
 109709 cTCCGCCTCCGAGGGCGGAGCCCGc 109734
 109709 gAGGCGGAGGCTCCGCCTCGGCGCc 109734

⊕ ZFN-unknown-SP-7-379
 109711 cCGCCTCCGAGGGCGGA GCCGCGCCc 109737
 109711 gGCGGAGGCTCCCGCCTCGGCGCGGg 109737

⊕ ZFN-unknown-SP-7-380
 109849 cACCCCTCCGGGTTGCGAGGGGCGa 109875
 109849 gGTGGGGAGGCCAAGCTCCCGCt 109875

⊕ ZFN-unknown-SP-6-413
 109850 cACCCCTCCGGGTTGCGAGGGGCGa 109875
 109850 gTGGGGGAGGCCAAGCTCCCGCt 109875

⊕ ZFN-unknown-SP-6-414
 109985 cACAACTGCCTGCTGGGGCCGAGc 110010
 109985 gTGTGTGACGACGACCCCGGCTCg 110010

⊕ ZFN-unknown-SP-6-415
 110068 gCGCGCCACCGAACAAGGAGGTTc 110093
 110068 cGCGCGGTGCTTGTCTCTCCAAg 110093

⊕ ZFN-unknown-SP-6-416
 110208 aCCCGGCCATGTTTGTTGTCCTCt 110233
 110208 tGGGCGGGTACAAACACAGGCGAa 110233

⊕ ZFN-unknown-SP-6-417
 110225 gTGCCGCTTCGAGCGAGCGACGACg 110250
 110225 cACGGCGAAGCTCGCTCGCTGCTGc 110250

⊕ ZFN-unknown-SP-7-381
 110384 cAAGCCCCCGCCGCA TCGGCAAGCg 110410
 110384 gTTGCGGGGCGGGCGTAGCCGTCGc 110410

⊕ ZFN-unknown-SP-5-378
 110386 aCGCCCCCGCCGCA TCGGCAAGCg 110410
 110386 tGCGGGGCGGCGTAGCCGTCGc 110410

⊕

ZFN-unknown-SP-7-382
 110387 cGCCCCCGCCGATCGGCAGCGGAg 110413
 110387 gCGGGGGGGGCGTAGCCGTCGCCGTc 110413

+ ZFN-unknown-SP-7-383
 110390 cCCCGCCCGCATCGGCAGCGGCAGCAc 110416
 110390 gGGGCGGGCGCAGCCGTCGCCGTCGTg 110416

+ ZFN-unknown-SP-6-418
 110798 gTACTCCCGCGGGGCCGCGGCCGCTg 110823
 110798 cATGAGGGCGCCCCGGCGCCGGCGAc 110823

+ ZFN-unknown-SP-7-384
 110888 gTTCATCGCCACGATCGCAGCTGCCt 110914
 110888 cAAGTAGGGGGTGCTAGCGTCGACGGa 110914

+ ZFN-unknown-SP-6-419
 111025 gCCCCCGGGCCAGCACGGAGCAGCCc 111050
 111025 cGGGGGGCGGTCTGCTCGTCGGg 111050

+ ZFN-unknown-SP-6-420
 111046 aGCCCTCGCCCTGGGTGGGAGGCGg 111071
 111046 tGGGAGGGGGGACCCAGCCCTCCGc 111071

+ ZFN-unknown-SP-7-385
 111048 cCCTCGCCCTGGGTCGGAGGCGGTg 111074
 111048 gGGAAGGGGACCCAGCCCTCCGCCAc 111074

+ ZFN-unknown-SP-7-386
 111217 cGCCCCCGCCGCTACTTGGGGGTCg 111243
 111217 gCGGGGGGGGCGCATGACGCCCCAGc 111243

+ ZFN-unknown-SP-6-421
 111218 gCCCGCCCGCGTACTTGGGGGTCg 111243
 111218 cGGGCGGGGCGCATGACGCCCCAGc 111243

+ ZFN-unknown-SP-7-387
 111218 gCCCGCCCGCGTACTGCGGGGTCGc 111244
 111218 cGGGCGGGGCGCATGACGCCCCAGCg 111244

+ ZFN-unknown-SP-5-379
 111220 cCGCCCCCGCGTACTGCGGGGTCGc 111244
 111220 gGCGGGGCGCATGACGCCCCAGCg 111244

+ ZFN-unknown-SP-7-388
 111220 cCGCCCCCGCGTACTGCGGGTGCAg 111246
 111220 gGCGGGGCGCATGACGCCCCAGCGTc 111246

+ ZFN-unknown-SP-6-422
 111247 aCTCGTCCACAAAATGATGGGACGt 111272
 111247 tGAGCAGGTCGTTTACTACCTGCa 111272

+ ZFN-unknown-SP-7-389
 111319 tCGCACCAACAACCCCGGGGACGACg 111345
 111319 aGCGTGGTTGTTGGGGCCCCCTGCTGc 111345

+ ZFN-unknown-SP-7-390
 111322 cACCAACAACCCCGGGGACGACGCGg 111348
 111322 gTGGTGTTCGGGGCCCTGCTGCGCc 111348

+ ZFN-unknown-SP-7-391
 111325 cAACAACCCCGGGGACGACGCGGGg 111351
 111325 gTGTGTTGGGGCCCCGCTGCGCCCCc 111351

+ ZFN-unknown-SP-6-423

111502 tGTCCCCGACCGCCAGGCGTTTGCc 111527
 111502 aCAGGGGCTGCGCGGTCCGCAACGg 111527

⊕ ZFN-unknown-SP-6-424
 111728 cTTCAACGCCGCGCTGGCCGTTACga 111753
 111728 gAGTTGGGGCGCGACCGCAATGct 111753

⊕ ZFN-unknown-SP-7-392
 111958 gGCCCTCGGCGGTGGCGACGACGGCg 111984
 111958 cCGGGAGCCGGCCACCGCTGCTGCCGc 111984

⊕ ZFN-unknown-SP-6-425
 112013 tCCCCGCGACGAGAGTTGGGAGGAGg 112038
 112013 aGGGCCGCTGCTCCTCACCTCCTCc 112038

⊕ ZFN-unknown-SP-5-380
 112013 tCCCCGCGACGAGGAGTTGGGAGGAg 112037
 112013 aGGGCCGCTGCTCCTCACCTCCTCc 112037

⊕ ZFN-unknown-SP-6-426
 112061 cCACGGCCCCCTCCCGGACGACGAGg 112086
 112061 gTGCGGGGCGGAGGGCTGCTGCTCc 112086

⊕ ZFN-unknown-SP-6-427
 112064 cGGCCCCCTCCCGACGACGAGGCCg 112089
 112064 gCCGGGGAGGGCCTGCTGCTCCGc 112089

⊕ ZFN-unknown-SP-5-381
 112065 gGCCCCCTCCCGACGACGAGGCCg 112089
 112065 cCGGGGAGCGGCCTGCTGCTCCGc 112089

⊕ ZFN-unknown-SP-6-428
 112274 gGACCGCGACTTCGTGGAGGCCGTAg 112299
 112274 cTGGGGCTGAAGCACCTCCGGCATc 112299

⊕ ZFN-unknown-SP-6-429
 112277 cCGCGACTTCGTGGAGGCCGTAGGGa 112302
 112277 gGCGCTGAAGCACCTCCGGCATCCct 112302

⊕ ZFN-unknown-SP-7-393
 112388 cCCCGACGGCTCCGCGTGCGGCCGGTt 112414
 112388 gGGGCTGCCGAGGCGCACGCCGCCAa 112414

⊕ ZFN-unknown-SP-7-394
 112501 aCGCCCCGCCATGTTTTCCGCGGCCc 112527
 112501 tGCGGGGCGGGTACAAAAGCGCCGGg 112527

⊕ ZFN-unknown-SP-5-382
 112503 gCCCCGCCATGTTTTCCGCGGCCc 112527
 112503 cGGGGGGGTACAAAAGCGCCGGg 112527

⊕ ZFN-unknown-SP-6-430
 112513 tGTTTTCGCGGGCCCCGCGGGAGATc 112538
 112513 aCAAAAGGCGCCGGGGGCCCTCTAg 112538

⊕ ZFN-unknown-SP-7-395
 112538 cCGCGTCCTCCACAGCCTTGGCGGGGa 112564
 112538 gGCGCAGGAGGTGTCGGAACCGCCCTc 112564

⊕ ZFN-unknown-SP-6-431
 112541 cGTCCTCCACAGCCTGGGCGGGGACt 112566
 112541 gCAGGAGGTGTCGGACCCGCCCTGa 112566

⊕ ZFN-unknown-SP-5-383
 112542 gTCCTCCACAGCCTGGGCGGGGACt 112566
 112542 cAGGAGGTGTCGGACCCGCCCTGa 112566

+ ZFN-unknown-SP-6-432
 112690 gTTTCGCGTCAGAACTGCTGGGGCGa 112715
 112690 cCAAGCGCAGCTTTGACGACCCCGct 112715

+ ZFN-unknown-SP-5-384
 113173 tACCGCCCTCGTGTGGATGAAGATa 113197
 113173 aTGGCGGGAGCACACCTACTTCTAt 113197

+ ZFN-unknown-SP-7-396
 113223 cGCCGACCGCCCCCGCGGGGGCAt 113249
 113223 gCGGCTGGCCGGGGGGGCCGCCCGTa 113249

+ ZFN-unknown-SP-6-433
 113438 gCCCTTCACCAACGACGATGCATGTt 113463
 113438 cGGGAAGTGGTTGCTGCTACGTACAA 113463

+ ZFN-unknown-SP-7-397
 113597 gTTCAACGCCAGACCCTGGTGCAAGTg 113623
 113597 cAAGTTGCGCTCTGGGACCACGTGCAc 113623

+ ZFN-unknown-SP-5-385
 113803 gTCCATCATCGCCCTGACGGAGCTg 113827
 113803 cAGGTAGTAGCGGGACTGCCTCGAc 113827

+ ZFN-unknown-SP-5-386
 113868 aACCAGCGGCCCCAGGGGGCGTc 113892
 113868 tTGGTCGCCGGGGTCCCCGCGAg 113892

+ ZFN-unknown-SP-5-387
 114048 aCGCCTCTCCGTTGGAAGAGGCGg 114072
 114048 tGGGAGGAAGGCAACCTTCTCCGc 114072

+ ZFN-unknown-SP-6-434
 114442 aGCCACCGGCCCACTGGCGCTGTgt 114467
 114442 tCGGTGGCCGGTGACCCGCGACAc 114467

+ ZFN-unknown-SP-6-435
 114633 gTCCGACAGCGAGCTCGAGGAGGAGg 114658
 114633 cAGGCTGTCCCTCGAGTCCTCCTGc 114658

+ ZFN-unknown-SP-6-436
 114744 aGACCCCTGCGGAGACGGAGGGGCGg 114769
 114744 tCTGGGAGCCCTCTGCCTCCCCGc 114769

+ ZFN-unknown-SP-7-398
 114797 gTCCCCCGGCCCGCCCCGAGGACGCCg 114823
 114797 cAGGGGGCCCGCGGGGCTCTGCGGc 114823

+ ZFN-unknown-SP-7-399
 114841 aCGCCTCGCCCGGCAGCGCGCGGGCa 114867
 114841 tCGGAGCGGGCCGTCGCGCCGCCCTc 114867

+ ZFN-unknown-SP-7-400
 114848 gCCCCGACGCGCGCGGGGAGCCGACg 114874
 114848 cGGGCGGTCCGCGCCCTCGGCTGc 114874

+ ZFN-unknown-SP-6-437
 114884 cCGCGACCAACCGCGTGTGGTCCGCGc 114909
 114884 gGCGCTGGTGGCCGCAACCAACGCGg 114909

+ ZFN-unknown-SP-6-438
 114988 gCACCGCATCCCCGAGGCGGGCGCGc 115013
 114988 cGTGGGTAGGGGCTCGCCCGCCGc 115013

+

ZFN-unknown-SP-7-401
 114991 cCGCATCCCCGAGGCGGGCGCGAGGt 115017
 114991 gCGGTAGGGCTCCGCCCGCCGCTCCa 115017

⊕ ZFN-unknown-SP-7-402
 115092 aAACGCCCAACCAAGGGGTCGCCa 115118
 115092 tTGCGGGTCTTGGTTCCTCCAGCGT 115118

⊕ ZFN-unknown-SP-7-403
 115111 gGTGCCACCCGCGTCGGCGCGACg 115137
 115111 cAGCGGTGGGGCGCAGCCGCGCTGc 115137

⊕ ZFN-unknown-SP-5-388
 115113 tCGCCACCCGCGTCGGCGCGACg 115137
 115113 aGGGTGGGGCGCAGCCGCGCTGc 115137

⊕ ZFN-unknown-SP-6-439
 115143 cCCCGCGCCACCCACGGCGAGGCGc 115168
 115143 gGGCGCGGGTGGGTGCGCTCCGCG 115168

⊕ ZFN-unknown-SP-6-440
 115148 gCGCCACCCACGGCGAGCGCGCGc 115173
 115148 cGGGTGGGTGCCGCTCCGCGCGGg 115173

⊕ ZFN-unknown-SP-5-389
 115149 cGCCACCCACGGCGAGGCGCGCGc 115173
 115149 gCGGTGGGTCCGCTCCGCGCGCGg 115173

⊕ ZFN-unknown-SP-7-404
 115152 cACCCACGGCGAGGCGCGCGCGGAGg 115178
 115152 gTGGGTGCCCCCTCCGCGCCGCGCTCc 115178

⊕ ZFN-unknown-SP-6-441
 115226 aGGCCCCCTCCGCTGATGGCGCTg 115251
 115226 tCCGGGGGGAGGCGACTACCGCGAc 115251

⊕ ZFN-unknown-SP-7-405
 115228 gCCCCCTCCGCTGATGGCGCTGTCc 115254
 115228 cGGGGGGAGCGGACTACCGGACAGg 115254

⊕ ZFN-unknown-SP-6-442
 115229 cCCCCCTCCGCTGATGGCGCTGTCc 115254
 115229 gGGGGGGAGCGGACTACCGGACAGg 115254

⊕ ZFN-unknown-SP-7-406
 115253 cCTGACCCCCCGCACGCGGACGGCc 115279
 115253 gGGAATGGGGGGCGTGCGCTGCGGg 115279

⊕ ZFN-unknown-SP-6-443
 115646 tGGCGTCCGCGGATGAGACGCTGGCg 115671
 115646 aCGCGAGGCGCCTACTCTGCGACCGc 115671

⊕ ZFN-unknown-SP-6-444
 115719 cCTATCATCGGAACGGCGCGCGCCg 115744
 115719 gGGATAGTAGCCTTGCCGCGCGCGc 115744

⊕ ZFN-unknown-SP-7-407
 115896 cGCCAACCGCTCGAGCGCGCGTGTCc 115922
 115896 gCGGTGGGCGAGCTCGCGCGCACAg 115922

⊕ ZFN-unknown-SP-6-445
 116612 aACCACCGCCGCTCTGCGCGAACT 116637
 116612 tTGTGGGCGGCAGAACGCGCTTGa 116637

⊕ ZFN-unknown-SP-5-390
 117362 tCGCTCTGCGTAAGTAGGGAGGCc 117386

117362 aGCGGAGACGCATTTCATCCCTCCGg 117386

⊞ ZFN-unknown-SP-7-408
 117566 aCACCTCGCCGTACCCGGAAGAAGCCg 117592
 117566 tGTGGAGCGGCAGTGGCCTTCTTCGGc 117592

⊞ ZFN-unknown-SP-7-409
 117572 cGCCGTACCGGAAGAAAGCCGGTGAAa 117598
 117572 gCGGCAGTGGCCTTCTTCGGCCACTTt 117598

⊞ ZFN-unknown-SP-7-410
 117614 aCGTCCCTGCAGAGTACGGTGGAGGCg 117640
 117614 tGCAGGGACCTCTCATGCCACCTCCGc 117640

⊞ ZFN-unknown-SP-7-411
 117768 aGCCCCAACGCCATGGTGGGGATTTCg 117794
 117768 tCGGGGGTTCCGGTACCACCCCTAAGc 117794

⊞ ZFN-unknown-SP-6-446
 117872 cGCCGACCACTAGACCGCAGACGTCg 117897
 117872 gCGGCTGGTCATCTGGCGCTCTGCAGc 117897

⊞ ZFN-unknown-SP-5-391
 118057 gCGCGCCCCCGCCCGGCCCGCGCg 118081
 118057 cGGCGGGGGCGGGCCGGCGGCGGg 118081

⊞ ZFN-unknown-SP-5-392
 118078 gCGCGCCCCCGCCCGGCCCGCGCGCg 118102
 118078 cGGCGGGGGCGGGCCGGCGGCGGg 118102

⊞ ZFN-unknown-SP-5-393
 118099 gCGCGCCCCCGCCCGGCCCGCGCGCg 118123
 118099 cGGCGGGGGCGGGCCGGCGGCGGg 118123

⊞ ZFN-unknown-SP-5-394
 118120 gCGCGCCCCCGCCCGGCCCGCGCGCg 118144
 118120 cGGCGGGGGCGGGCCGGCGGCGGg 118144

⊞ ZFN-unknown-SP-5-395
 118141 gCGCGCCCCCGCCCGGCCCGCGCGCg 118165
 118141 cGGCGGGGGCGGGCCGGCGGCGGg 118165

⊞ ZFN-unknown-SP-5-396
 118162 gCGCGCCCCCGCCCGGCCCGCGCGCg 118186
 118162 cGGCGGGGGCGGGCCGGCGGCGGg 118186

⊞ ZFN-unknown-SP-5-397
 118197 gGCCGCCCGCGTCGCGCCGGCGCCc 118221
 118197 cCGGCGGGGCGAGCGCGGCGCGGg 118221

⊞ ZFN-unknown-SP-7-412
 118276 cCCACCGCCCCCGCCCGCAGGGGGGc 118302
 118276 gGGTGGCGGGGCGGGGCCGTCCCCCGg 118302

⊞ ZFN-unknown-SP-5-398
 118278 cCACCGCCCCCGCCCGCAGGGGGGc 118302
 118278 gGTGGGGGGCGGGCCGTCCCCCGg 118302

⊞ ZFN-unknown-SP-7-413
 118437 gGTCCACACAGGAGCGCGCGGGGGCga 118463
 118437 cAGGTGTCTCCTCGCGCCCCGCCGt 118463

⊞ ZFN-unknown-SP-7-414
 118473 gCGCGGCGGCGGTGGGGTGGAGTGg 118499
 118473 cGGCGGGCCCGAGCCCCACCCCTCACc 118499

⊞

ZFN-unknown-SP-7-415
 118533 cTCCCCCACC CGACCGCCGCCGCGc 118559
 118533 gAGGGGGTGcGGCTGGCGCGCGCGc 118559

⊕ ZFN-unknown-SP-6-447
 118534 tCCCCCACC CGACCGCCGCCGCGc 118559
 118534 aGGGGGGTGcGGCTGGCGCGCGCGc 118559

⊕ ZFN-unknown-SP-7-416
 118891 cCCCCC CGCGCGCCGACGAAGGAg 118917
 118891 gGGGGGGGcGGCGGGCTGCTTCCTc 118917

⊕ ZFN-unknown-SP-5-399
 118893 cCCCCC CGCGCGCCGACGAAGGAg 118917
 118893 gGGGGGGGcGGCGGGCTGCTTCCTc 118917

⊕ ZFN-unknown-SP-7-417
 118894 cCCCCC CGCGCGCCGACGAAGGAGACc 118920
 118894 gGGGGGGGcGGGGCTGCTTCCTCTGg 118920

⊕ ZFN-unknown-SP-5-400
 118896 cCCCCC CGCGCGCCGACGAAGGAGACc 118920
 118896 gGGGGGGGcGGCTGCTTCCTCTGg 118920

⊕ ZFN-unknown-SP-5-401
 119111 cCGCAGCCGAGCAGCGCCGCGGCGt 119135
 119111 gGCGTCGGCTcGTCGCGCGCGCCGa 119135

⊕ ZFN-unknown-SP-6-448
 119160 gCCCCC CGCGCGCGCGCGCGCGCGGCGGAGAg 119185
 119160 cGGGGGGGcCGGGCGCGCCTCTCTt 119185

⊕ ZFN-unknown-SP-6-449
 119163 cCGCGCCGCGCGCGCGCGGAGAGAACc 119188
 119163 gGCGCGGCGcGCGCGCCTCTCTTGg 119188

⊕ ZFN-unknown-SP-5-402
 119328 aCACTCCACGTTGGGGGGGGGc 119352
 119328 tTGTGAGGGTGCAACCCCCCGc 119352

⊕ ZFN-unknown-SP-6-450
 119328 aCACTCCACGTTGGGGGGGGGc 119353
 119328 tTGTGAGGGTGCAACCCCCCGc 119353

⊕ ZFN-unknown-SP-5-403
 119329 aCACTCCACGTTGGGGGGGGGc 119353
 119329 tGTGAGGGTGCAACCCCCCGc 119353

⊕ ZFN-unknown-SP-7-418
 119329 aCACTCCACGTTGGGGGGGGGCGc 119355
 119329 tGTGAGGGTGCAACCCCCCGCGc 119355

⊕ ZFN-unknown-SP-5-404
 119419 gAGCCCCCGCGGTGTGTGTGTGg 119443
 119419 cTCGGGGGcGCGACAACGACACc 119443

⊕ ZFN-unknown-SP-5-405
 119422 cCCCGCCGCGTGTGCTGTGGGCa 119446
 119422 gGGCGGGGcCACAACGACACCGt 119446

⊕ ZFN-unknown-SP-7-419
 119484 gCGCGG CAGCAACGAACG CAGGGGCCc 119510
 119484 cGCGCGGTCTTGTTCGTCCCGGg 119510

⊕ ZFN-unknown-SP-6-451

119715 gGGCCCCGACCTCGGGGCGCCc 119740
 119715 cCGGGGGCTGGAGCCGCCGGCGg 119740

⊕ ZFN-unknown-SP-5-406
 119716 gGCCCCCGCACCTCGGGGCGCCc 119740
 119716 cGGGGGGGTGGAGCCGCCGGCGg 119740

⊕ ZFN-unknown-SP-7-420
 119729 cGGCGGCCGCCCTCCGGGCGCGc 119755
 119729 gCGCGGGCGGGGAGGCCGCGCGc 119755

⊕ ZFN-unknown-SP-5-407
 119825 gCCCGCGCCGGCGGGAAGCGTCc 119849
 119825 cGGGCGGGGCCCGCCTTCCGCAGg 119849

⊕ ZFN-unknown-SP-5-408
 119871 gGCCCCCGCGGAGCGGGGGCCc 119895
 119871 cCGGGGGCGCCTCGGCCCGCGg 119895

⊕ ZFN-unknown-SP-7-421
 120063 tTCCCCCCCCCCCCCGCGCGCGCg 120089
 120063 aAGGGGGGGGGGGGGCGCGCGCg 120089

⊕ ZFN-unknown-SP-6-452
 120064 tCCCCCCCCCCCCCGCGCGCGCg 120089
 120064 aGGGGGGGGGGGGGGCGCGCGCg 120089

⊕ ZFN-unknown-SP-5-409
 120065 cCCCCCCCCCCCCCGCGCGCGCg 120089
 120065 gGGGGGGGGGGGGGGCGCGCGCg 120089

⊕ ZFN-unknown-SP-7-422
 120066 cCCCCCCCCCCCCCGCGCGCGCg 120092
 120066 gGGGGGGGGGGGGGGCGCGCGCg 120092

⊕ ZFN-unknown-SP-6-453
 120067 cCCCCCCCCCCCCCGCGCGCGCg 120092
 120067 gGGGGGGGGGGGGGGCGCGCGCg 120092

⊕ ZFN-unknown-SP-5-410
 120068 cCCCCCCCCCGCGCGCGCGCCc 120092
 120068 gGGGGGGGGGGGGGGCGCGCGCg 120092

⊕ ZFN-unknown-SP-7-423
 120095 tGCCCCGTCCACCGAGACCGCGc 120121
 120095 aCGGGCGCAGGTGGCTCTGCGCGCg 120121

⊕ ZFN-unknown-SP-7-424
 120214 cGTTCTCGCAGTAGGTTAGGGTCgt 120240
 120214 gCAAGAGGTCATCCAAATCCAGCa 120240

⊕ ZFN-unknown-SP-6-454
 120247 gAGCTTCTGCTGAGCGGGGGGAg 120272
 120247 cTCGAAGACACTCCGCCGCCCTct 120272

⊕ ZFN-unknown-SP-6-455
 120546 cCCCGTCGTCTCCGGGGGGCAg 120571
 120546 gGGGCAGCAGCAAGGGCCCCCGTc 120571

⊕ ZFN-unknown-SP-6-456
 120621 cCCCAACAACCCAAAGGCGCTGCc 120646
 120621 gGGTTGTTGGGTTTCCGCGCACGg 120646

⊕ ZFN-unknown-SP-7-425
 120644 gCCCGCCACAGCGTGGGTGTCGCGc 120670
 120644 cGGGCGGTCTCGGCACCCACCGCg 120670

+ ZFN-unknown-SP-6-457
 120647 cGGCCACAGCGTGGG**TGTGGCGCC**c 120672
 120647 g**CCGGTGTC**GCACCCACACCGCGg 120672

+ ZFN-unknown-SP-6-458
 120675 cCCCTTCCTCTACCG**GTGGGCGCG**g 120700
 120675 g**GGGAAGGAG**ATGGCGCACCCGCGCc 120700

+ ZFN-unknown-SP-6-459
 120678 cTTCCTCTACCGGT**GGCGCGGGC**g 120703
 120678 g**AAGGAGATC**GGCGACCCGCGCCCGc 120703

+ ZFN-unknown-SP-6-460
 120681 cCTCTACCGCGTGGGC**GCGGGCGGG**g 120706
 120681 g**GAGATGGCG**CACCCGCGCCCGCCc 120706

+ ZFN-unknown-SP-7-426
 120883 gAGCCCCCTCGCCCGA**TGGGAGTCT**c 120909
 120883 c**TCGGGGGAG**CGGGGCTACCTCAGAg 120909

+ ZFN-unknown-SP-7-427
 120906 tCTCCCGCAGCCAGG**TAAGGAGGG**g 120932
 120906 a**GAGGGGGT**CGGTCCCATTCCTCCCc 120932

+ ZFN-unknown-SP-5-411
 120908 tCCCCGCAGCCAGGG**TAAGGAGGG**g 120932
 120908 a**GGGGGTCTC**GTCCCATTCCTCCCc 120932

+ ZFN-unknown-SP-7-428
 121011 tCCTTTCTCCAGCCAG**GGTGAGGAG**g 121037
 121011 a**GGAAGAGG**GTCGGTCCCACTCCTCc 121037

+ ZFN-unknown-SP-7-429
 121151 aCCCGTCCCGGGGGCA**GAGGGCGTG**c 121177
 121151 t**GGCAGGGG**CCCCGTCTCCGCACg 121177

+ ZFN-unknown-SP-6-461
 121489 aACAGGCCTCGGGGT**GGGGCGGGC**t 121514
 121489 t**TGTCCGGAG**CCCCACCCCCGCCGa 121514

+ ZFN-unknown-SP-7-430
 121489 aACAGGCCTCGGGGT**GGGGCGGCT**t 121515
 121489 t**TGTCCGGAG**CCCCACCCCCGCCGaa 121515

+ ZFN-unknown-SP-5-412
 121557 cCCCGGCCCCCTGC**GCGGGGAGC**c 121581
 121557 g**GGGCGGGG**GGACGCGCCCCCTCg 121581

+ ZFN-unknown-SP-7-431
 121557 cCCCGGCCCCCTGCGC**GGGGAGCT**g 121583
 121557 g**GGGCGGGG**GGACGCGCCCCCTCGAc 121583

+ ZFN-unknown-SP-6-462
 121805 cTGCCCCGAGGCGCT**TCGGCCGGT**g 121830
 121805 g**ACGGGGGCT**CCGCGGAGCCGGCCAc 121830

+ ZFN-unknown-SP-7-432
 121930 cTGCTCCCGAGACCAC**GGGTGGCGCG**a 121956
 121930 g**ACGAGGGCT**CTGGTGCCACCGCGCt 121956

+ ZFN-unknown-SP-7-433
 122037 tGTTCCACTCCGACGCG**GGGGGGCTC**g 122063
 122037 a**CAAGGTGAG**GCTGCGCCCCCGCAGc 122063

+

ZFN-unknown-SP-7-434
 122038 gTTCCACTCCGACGCGGGGGCGTCGg 122064
 122038 cAAGGTGAGGCTGCGCCCCCGCAGCc 122064

⊕ ZFN-unknown-SP-6-463
 122038 gTTCCACTCCGACGCGGGGGCGTCGg 122063
 122038 cAAGGTGAGGCTGCGCCCCCGCAGCc 122063

⊕ ZFN-unknown-SP-5-413
 122111 gTGCGGGCGGCTCCACGGGGGGCCg 122135
 122111 cACGCCGCCAGGTGCGCCCCGGe 122135

⊕ ZFN-unknown-SP-5-414
 122114 cGGCGGCTCCACGCGGGGGCCGg 122138
 122114 gCCGCCGAGGTGCGCCCCGGCGCc 122138

⊕ ZFN-unknown-SP-6-464
 122377 cTTCTCGGCCCGCGCGGGCGCAGCAg 122402
 122377 gAAGGAGCCCGGGGCGCGCTCGTc 122402

⊕ ZFN-unknown-SP-6-465
 122380 cCTCGGCCCGCGGGCGCAGCAGCCc 122405
 122380 gGAGCCGGGGCGGCCGCGTCGTCGg 122405

⊕ ZFN-unknown-SP-5-415
 122389 cCGCGGCGCAGCAGCGGGGGCCg 122413
 122389 gCCGCCGCGTCTGCGCCCCCGGe 122413

⊕ ZFN-unknown-SP-6-466
 122394 gCGCAGCAGCGCGGGGGCCGAGGGAg 122419
 122394 cGCGTCGTCCGCCCCGGCTCCCTc 122419

⊕ ZFN-unknown-SP-6-467
 122428 tCTCTCCCAGCGCGGACGCGGACg 122453
 122428 aGAGAGGGGTCTGCGCCTGCGCCTGc 122453

⊕ ZFN-unknown-SP-7-435
 122430 tCTCCCCAGCGCGGACGCGGACGCGa 122456
 122430 aGAGGGGTCCGCGCTGCGCTGCGCt 122456

⊕ ZFN-unknown-SP-7-436
 122433 cCCAGCGCGGACGCGGACGCGACGc 122459
 122433 gGGGTCCGGGCTGCGCCTGCGCTGc 122459

⊕ ZFN-unknown-SP-7-437
 122460 tCCCACAGCCCCGCCCGCAGAGGAAg 122486
 122460 aGGTGGTCCGGGCGGCTCTCTCTTc 122486

⊕ ZFN-unknown-SP-7-438
 122463 cACCAGCCCCGCCCGCAGAGGAAGg 122489
 122463 gTGGTCCGGGCGGGCGTCTCCTTCTc 122489

⊕ ZFN-unknown-SP-7-439
 122466 cAGCCCCGCCCGCAGAGGAAGAGGCGg 122492
 122466 gTCGGGGCGGCGTCTCTTCTCCGc 122492

⊕ ZFN-unknown-SP-7-440
 122469 cCCCGCCCGCAGAGGAACAGCGGAGg 122495
 122469 gGGGCCGGGCTCTCTTCTCCGCTCc 122495

⊕ ZFN-unknown-SP-7-441
 122595 cGGCGGCGACCGCGGCTGGGACGACg 122621
 122595 gCCGCCGCTGGCGCGGACCTGCTGc 122621

⊕ ZFN-unknown-SP-7-442
 122598 cGGCGACCGGCTGGGACGACGGAg 122624

122598 gCCGCTGGCGCCGGACCTGCTGCCTc 122624

⊕ ZFN-unknown-SP-7-443
 122601 cGACCGCGCCTGGGACgACGGAGACg 122627
 122601 gCTGGCGCGCGGACCTGCTGCCTCTGc 122627

⊕ ZFN-unknown-SP-7-444
 122637 gCGCGGCGCCCGCGGACgCCGGGGCGCa 122663
 122637 cGCGCGCGCGGCGCCTGCGGCCCGCt 122663

⊕ ZFN-unknown-SP-7-445
 122724 tGGCCCCACCCCTGGGGGGCGAGGg 122750
 122724 aCCGGGGGTCGGGACCCCCGCTCCc 122750

⊕ ZFN-unknown-SP-6-468
 122725 gGCCCCACCCCTGGGGGGCGAGGg 122750
 122725 cCGGGGGTGGGGACCCCCGCTCCc 122750

⊕ ZFN-unknown-SP-6-469
 122727 cCCCCACCCCTGGGGGGCGAGGGGc 122752
 122727 gGGGTGGGGGACCCCCGCTCCCG 122752

⊕ ZFN-unknown-SP-5-416
 122728 cCCACCCCTGGGGGGCGAGGGGc 122752
 122728 gGGGTGGGGACCCCCGCTCCCG 122752

⊕ ZFN-unknown-SP-6-470
 122807 gACCCGCGCCTCTTCCGGGGCGGGGc 122832
 122807 cTGGGCGCGGAGAGGCCCGCCCG 122832

⊕ ZFN-unknown-SP-7-446
 122807 gACCCGCGCCTCTTCCGGGGCGGGCc 122833
 122807 cTGGGCGCGGAGAGGCCCGCCCG 122833

⊕ ZFN-unknown-SP-7-447
 122835 cGCCCCCTCCGCGCGTTGGGGGCGGg 122861
 122835 gGCGGGGAGGCGCCGACCCCCGCGc 122861

⊕ ZFN-unknown-SP-6-471
 122835 cGCCCCCTCCGCGCGGTGGGGGGCg 122860
 122835 gGCGGGGAGGCGCCGACCCCCGCGc 122860

⊕ ZFN-unknown-SP-5-417
 122836 cGCCCCCTCCGCGCGGTGGGGGGCg 122860
 122836 gCGGGGAGGCGCCGACCCCCCGc 122860

⊕ ZFN-unknown-SP-6-472
 122836 cGCCCCCTCCGCGCGTTGGGGGGCGg 122861
 122836 gCGGGGAGGCGCCGACCCCCCGc 122861

⊕ ZFN-unknown-SP-6-473
 122838 cCCCCCTCCGCGCGTGGGGGGCGGa 122863
 122838 gGGGAGGCGCCGACCCCCCGCGt 122863

⊕ ZFN-unknown-SP-7-448
 122838 cCCCCCTCCGCGCGTGGGGGGCGGCAc 122864
 122838 gGGGAGGCGCCGACCCCCCGCGTg 122864

⊕ ZFN-unknown-SP-6-474
 122856 gGGCGGCACCGGGGTGTTGTTGCCg 122881
 122856 cCGCGCGTGCCCCACAACACGCGc 122881

⊕ ZFN-unknown-SP-7-449
 123012 gCGCGTCCACGGCACGGCGGGGCGCg 123038
 123012 cGCGAGGTCGCGGTGCGCCCGCCGc 123038

⊕

ZFN-unknown-SP-6-475
 123061 cGCAGACACCACGGGGGCGGCGGGCGg 123086
 123061 gCGTCTGTGGTGCCTCCCGCCGCGCc 123086

+ ZFN-unknown-SP-5-418
 123075 gGGCGGGCGCGCGCGGGGGCGACT 123099
 123075 cCGGCGGGCGCGCGCCCCCGCTGa 123099

+ ZFN-unknown-SP-5-419
 123111 gGGCGACGGCCGCGCGGGGGCGCGc 123135
 123111 cCGGCTGGCGCGCGCCCCCGCGGg 123135

+ ZFN-unknown-SP-5-420
 123362 gCGCGCCCCCGCGCGGCCGAGGGg 123386
 123362 cGGCGGGGGGGCGGCGCGGCTCCCc 123386

+ ZFN-unknown-SP-5-421
 123365 cGCCCCCGCGCGCGCGCAGGGGGAa 123389
 123365 gCGGGGGCGCGCGGCTCCCCCTt 123389

+ ZFN-unknown-SP-5-422
 123369 cCCCCCGCGCGCAGGGGAAGAGa 123393
 123369 gGGGCGGGCGCGGTCCCCCTTCTc 123393

+ ZFN-unknown-SP-5-423
 123451 cCCCCCGCGCAACGGGGCGCGGCCg 123475
 123451 gGGGCGGGCGTTGCCCCCGGCGGc 123475

+ ZFN-unknown-SP-5-424
 123454 cGCCCCCAACGGGGCGCCGCGCTg 123478
 123454 gCGGGCGGTTCCTCCGCGGCGGAc 123478

+ ZFN-unknown-SP-6-476
 123470 cCGCCGTGCTGCTGCTCCCGCGGGc 123495
 123470 gCGGCGGACGACGAGGCGCCCCg 123495

+ ZFN-unknown-SP-6-477
 123551 gCACCGCGCCCCCGCGCCGGGGCGc 123576
 123551 cGTGGGGCGGGGCGCGGCCCGCg 123576

+ ZFN-unknown-SP-7-450
 124213 cACCCCCACAGGATCCCTGCGCGTCCg 124239
 124213 gTGGGGGTCTCCTAGGACGCGCAGCc 124239

+ ZFN-unknown-SP-6-478
 124231 gCGCGTCGGCGGGCGTGGGCTGCCc 124256
 124231 cCGCGAGCCGCCCGACCCGACGGg 124256

+ ZFN-unknown-SP-6-479
 124333 tGCCCCCTCGGAGGTGGAGTCGCGg 124358
 124333 aCGGCGGAGCCCTCCACCTCAGCGCc 124358

+ ZFN-unknown-SP-5-425
 124388 gGTCTCCTCCTCCGAGTCGCTGCTg 124412
 124388 cCAGAGGAGGAGGCTCAGCGACGAc 124412

+ ZFN-unknown-SP-6-480
 124390 tCTCCTCCTCCGAGTCGCTGCTGGCg 124415
 124390 aGAGGAGGAGGCTCAGCGACGACCGc 124415

+ ZFN-unknown-SP-5-426
 124391 cTCCTCCTCCGAGTCGCTGCTGGCg 124415
 124391 gAGGAGGAGGCTCAGCGACGACCGc 124415

+ ZFN-unknown-SP-6-481

124433 gAGCATCCCCAGGCGTTCGGGGCGg 124458
 124433 cTCGTAGGGGGTCCGACGCCCCGc 124458

⊞ ZFN-unknown-SP-5-427
 124434 aGCATCCCCAGGCGTTCGGGGCGg 124458
 124434 tCGTAGGGGGTCCGACGCCCCGc 124458

⊞ ZFN-unknown-SP-7-451
 124560 cGCCCCCTGCTTTTGTTCGGAAGGGg 124586
 124560 gCGGGGACGAAAAACAAGCCTTCCCc 124586

⊞ ZFN-unknown-SP-6-482
 124687 tCGCCCCCAGAGGGTTCGGGGGGg 124712
 124687 aGCGGGGGGTCTCCAGCCCCCGc 124712

⊞ ZFN-unknown-SP-5-428
 124687 tCGCCCCCAGAGGTTCGGGGGc 124711
 124687 aGCGGGGGGTCTCCAGCCCCGg 124711

⊞ ZFN-unknown-SP-5-429
 124688 cGCCCCCAGAGGGTTCGGGGGGg 124712
 124688 gCGGGGGGTTCTCCAGCCCCCGc 124712

⊞ ZFN-unknown-SP-6-483
 124800 cGACCACCCCAACCCGCAGCCGGt 124825
 124800 gCTGTGGGGGTTGGCGTCGGCCa 124825

⊞ ZFN-unknown-SP-5-430
 124801 gACCACCCCAACCCGCAGCCGGt 124825
 124801 cTGGTGGGGTTGGGCTCGGCCa 124825

⊞ ZFN-unknown-SP-7-452
 124859 gGTCGCCCTCTCACCGTGCCGGGGTc 124885
 124859 cCAGCGGAGAGTGGCACGGCCCCAg 124885

⊞ ZFN-unknown-SP-5-431
 124888 cCGCGGCGCGGCTCGGGGCGGGg 124912
 124888 gGCGCGCGCGCGAGCCCCGGCCc 124912

⊞ ZFN-unknown-SP-5-432
 124891 cGGCGGCGGCTCGGGGCCGGGTCc 124915
 124891 gCGCGGGCGAGCCCCGGCCCCAg 124915

⊞ ZFN-unknown-SP-7-453
 125024 tCTCCTCCTCCGCGGGGCCGCCGTc 125050
 125024 aGAGGAGAGGGCGGCCGGCGGCGAg 125050

⊞ ZFN-unknown-SP-6-484
 125025 cTCCTCCTCCGCGGGGCCGCCGTc 125050
 125025 gAGGAGGAGGCGGCCCGGCGCGAg 125050

⊞ ZFN-unknown-SP-7-454
 125167 gCGCCCCGCGGGGGCGGAGGAGGGa 125193
 125167 cGCGGGGCCCCCCGCCTCCCTCCc 125193

⊞ ZFN-unknown-SP-6-485
 125191 gGAATCCCCCTCTCGGGGCGGCCc 125216
 125191 cTTAGGGGGGGAGAGCCCCCGGg 125216

⊞ ZFN-unknown-SP-7-455
 125258 aGCATGCGCGCCCCCGGCCGACGAg 125284
 125258 tCGTACGCGGCGGGGCGGCTGCGTc 125284

⊞ ZFN-unknown-SP-5-433
 125263 gCGCCGCCCCCGCCGACGCAATg 125287
 125263 cGCGGGGGGGCGGGCTGCGCTAc 125287

⊕ ZFN-unknown-SP-7-456
 125264 cGCCGCCCGCCCGACGCAATGGGa 125290
 125264 gCGCGGGGCGCGCTGCGTCTACCCt 125290

⊕ ZFN-unknown-SP-5-434
 125292 tCCCCCGGCGCCCCGCCGCGCGg 125316
 125292 aGGGGGGCGCGGGCGGCGCGCc 125316

⊕ ZFN-unknown-SP-5-435
 125295 cCCCGGCGCCCCGCCGCCGCGCGCc 125319
 125295 gGGCGGGCGCGGGCGGCGCGGg 125319

⊕ ZFN-unknown-SP-6-486
 125712 gCCCGGCGCGCCCCCTGGGGCGGGc 125737
 125712 cGGCGGGCGCGGGGACCCCGCCcg 125737

⊕ ZFN-unknown-SP-7-457
 125712 gGCCGGCGCGCCCCCTGGGCGGGCg 125738
 125712 cGGCGGGCGCGGGGACCCCGCCGc 125738

⊕ ZFN-unknown-SP-5-436
 125717 gCGCCGCCCTGGGGCGGGCGGAg 125741
 125717 cGGCGGGGAGACCCCGCGCCTc 125741

⊕ ZFN-unknown-SP-7-458
 125718 cGCCGCCCTGGGCGGGCGAGCGg 125744
 125718 gGGCGGGGACCCCGCGCCTCGCc 125744

⊕ ZFN-unknown-SP-7-459
 125924 cCGCCGCTCTCTCTCTCCGCCGGTc 125950
 125924 gGGCGGGAGGAGGAGGAGGCCCAg 125950

⊕ ZFN-unknown-SP-6-487
 125925 cGCCGCTCTCTCTCTCCGCCGGTc 125950
 125925 gGGCGGGAGGAGGAGGAGGCCCAg 125950

⊕ ZFN-unknown-SP-5-437
 126029 cGGCCCGCCACGCGGGCGGGAa 126053
 126029 gCGGGGGCGTGCGCCGCGGCCTt 126053

⊕ ZFN-unknown-SP-7-460
 126040 aCGCGGCGCGGAACCGTGCGCGTCg 126066
 126040 tGGCGGGCGCTTGCCAGCGCCAGc 126066

⊕ ZFN-unknown-SP-6-488
 126156 gCACACCTGCGGCGGGAGACACGg 126181
 126156 cGTGTGACGCCCGCCCTCTGTGCc 126181

⊕ ZFN-unknown-SP-7-461
 126327 gCGCGTCCGCGGCGGGGACGCGGGc 126353
 126327 cGGCAGGCGCCCGCCCTGCGCCCc 126353

⊕ ZFN-unknown-SP-7-462
 126385 gTACTCCGTCTGTGTGCGCAGCGTAg 126411
 126385 cATGAGGCACACCACGCTCGGCATc 126411

⊕ ZFN-unknown-SP-5-438
 126454 gCGCGGCGGCGGGGGGGGAGGCg 126478
 126454 cGGCGGGCGCGCGCCCCCGTCCGc 126478

⊕ ZFN-unknown-SP-5-439
 126457 cGGCGGCGGCGGGGGGCAAGCGGCg 126481
 126457 gCGCGGGCGCCCCCGTCCGCCGc 126481

⊕

ZFN-unknown-SP-7-463
 126471 gGCAGGCGGCGGAGGCgCGGCGTGCg 126497
 126471 cCGTCCGCCGCCGTCCGCGCCGACGc 126497

⊞ ZFN-unknown-SP-6-489
 126512 tTCCCCCGCCCTCGCTCCGGGGGCt 126537
 126512 aAGGGGGCGGAGCGAGCCCCCGa 126537

⊞ ZFN-unknown-SP-5-440
 126513 tCCCCCGCCCTCGCTCCGGGGGCt 126537
 126513 aGGGGGGCGGAGCGAGCCCCCGa 126537

⊞ ZFN-unknown-SP-6-490
 126516 cCCCGCCCTCGCTCGGGGGCGTGTTc 126541
 126516 gGGGCGGAGCGAGCCCCCGACAAg 126541

⊞ ZFN-unknown-SP-6-491
 126546 aCTCTGCGTCGTCTGTTGCCGGCGTAg 126571
 126546 tGAGACGCAGCAGCAACGGCCGCATc 126571

⊞ ZFN-unknown-SP-6-492
 126549 cTGCGTCGTCTGTCGGCGTAGTCc 126574
 126549 gACGCAGCAGCAACGGCCGCATCAGg 126574

⊞ ZFN-unknown-SP-7-464
 126598 gGGCACAGCAGCCAGCgCCGCAGGAg 126624
 126598 cCGTGGTCGTCGGTCGCGGCGTCCTc 126624

⊞ ZFN-unknown-SP-7-465
 126601 cACCAGCAGCCAGCGCCGCAGGAGCGa 126627
 126601 gTGGTCGTCCGTGCGGCGTCCTCGCt 126627

⊞ ZFN-unknown-SP-7-466
 126962 gGCCCTCTTAAGGGCGgCGGCAGGAc 126988
 126962 cCGGGAGAATCCCCGCCGCCCTCCTg 126988

⊞ ZFN-unknown-SP-5-441
 127067 gGGCGGCGGCGGCGGgCGGCGGCGa 127091
 127067 cCGCGCGCCCGGCCGCCCGCGTt 127091

⊞ ZFN-unknown-SP-6-493
 127070 cGGCGGCGGCGGCGGgCGGCAGGGc 127095
 127070 gCGCGCGCCCCCCGCCGCCGTCCTc 127095

⊞ ZFN-unknown-SP-6-494
 127131 aGCCGGCCGCTCCCCGCGGCGCCg 127156
 127131 tCGGCGGCGAGGGGGCGCCCGCGGc 127156

⊞ ZFN-unknown-SP-6-495
 127134 cGGCCGCTCCCCCGCGGGCGCCGCCc 127159
 127134 gCGGCGGAGGGGCGCCCGCGCGGg 127159

⊞ ZFN-unknown-SP-6-496
 127156 gCCCCCCCCCGCGCGCCGCGGGGc 127181
 127156 cGGGAGGGGGGCGCGCGCGCCCGg 127181

⊞ ZFN-unknown-SP-5-442
 127157 cCCCTCCCCCGCGCGCCGCGGGc 127181
 127157 gGGGAGGGGGCGCGCGCGCCCGg 127181

⊞ ZFN-unknown-SP-7-467
 127160 cTCCCCCGCGCGCCGGGGGCTGCCt 127186
 127160 gAGGGGGCGCGCGCGCCCCGACGGA 127186

⊞ ZFN-unknown-SP-6-497
 127217 cCGCGCCGCCCCCGCGCGGCAGGAc 127242

127217 gGCGGGGCGGGGCGCGCCGTCCTg 127242

⊕ ZFN-unknown-SP-7-468
 127223 cCGCCCCCGCGCGCAGGACGGGGACt 127249
 127223 gGCGGGGCGCGCCGTCCTGCCCCGa 127249

⊕ ZFN-unknown-SP-5-443
 127285 gCTCCCCGCCCCCGAAGACGCCa 127309
 127285 cGAGGGGGCGGGGGCTTCTGCGGt 127309

⊕ ZFN-unknown-SP-7-469
 127427 tCCCCCGCGCGCCACGGGGCTGCGg 127453
 127427 aGGGGGGCGCGCGTGCCCCGACGc 127453

⊕ ZFN-unknown-SP-7-470
 127456 cCGCGGCGCGCTCCCCCGCGGCCGCTt 127482
 127456 gGCGCGGCGGAGGGGGCGCCGGCGGa 127482

⊕ ZFN-unknown-SP-6-498
 127529 cCGCGGCGCGAGCTCGCAGCAGCCc 127554
 127529 gGCGCGGGCGCTCGAGCGTCGTCGGg 127554

⊕ ZFN-unknown-SP-7-471
 127573 gCCTTCCCTCCCGCTCCTGCGGGGGGg 127599
 127573 cGGAAGGGAGCGGCGAGGACGCCCCCc 127599

⊕ ZFN-unknown-SP-6-499
 127577 tCCCTCCCGCTCCTGCGGGGGGGCTc 127602
 127577 aGGGAGGGCGAGGACGCCCCCGAG 127602

⊕ ZFN-unknown-SP-7-472
 127646 gACCCCCCGGGGCGCGGGAGACGTGc 127672
 127646 cTGGGGGGCGCCCGCGCCCTCTGCACg 127672

⊕ ZFN-unknown-SP-6-500
 128168 tCCCCACCACTCCACGCCGCCGCCc 128193
 128168 aGGGGTGGTCGAGGTGCGGCGCGGg 128193

⊕ ZFN-unknown-SP-5-444
 128169 cCCCACCACTCCACGCCGCCGCCc 128193
 128169 gGGGTGGTGGAGGTGCGGCGGCGg 128193

⊕ ZFN-unknown-SP-7-473
 128207 cCGTCCCGCGCGGCCCGCGGCCGACg 128233
 128207 gGCAGGGGCGCGCCGGCGCCGGCTGc 128233

⊕ ZFN-unknown-SP-7-474
 128228 cCGACGCCAGCGTATCTGCGGGGGGc 128254
 128228 gGCTGGGGTGCATAGACGCCCCGc 128254

⊕ ZFN-unknown-SP-6-501
 128269 tCGTCGCGCAGCACCAGCGGGGGCGc 128294
 128269 aGCAGCCGCTCGTGTCGCCCCCGGg 128294

⊕ ZFN-unknown-SP-6-502
 128274 gCGCAGCACCAGCGGGGGCGCGTCCg 128299
 128274 cGCGTCGTGGTCGCCCCCGCGAGCg 128299

⊕ ZFN-unknown-SP-7-475
 128377 tCGCGCCCGAGCGCCACGTAGACGGGc 128403
 128377 aGCGCGGGTTCGCGGTGCATCTGCCGg 128403

⊕ ZFN-unknown-SP-5-445
 128379 gCGCCCCAGCGCCACGTAGACGGGc 128403
 128379 cGCGGGGTCCCGGTGCATCTGCCGg 128403

⊕

ZFN-unknown-SP-7-476
 128419 aGGCCCCAGCGCGCAGGCGCGGTGc 128445
 128419 tCGGGGTCCGCGGTCGCGCCACg 128445

+ ZFN-unknown-SP-7-477
 128492 cGTCGCCCGCGCCGAGGCGCGGCCc 128518
 128492 gAGCGGGCCGCGGTCGCGCCCGGg 128518

+ ZFN-unknown-SP-5-446
 128568 gGGCACGAGCGTTCGGGGCCGAAg 128592
 128568 cCGTGGTCCACAGCCCCGGCTTc 128592

+ ZFN-unknown-SP-6-503
 128620 gCCCCGCGGCAGAGGCAGCGGGCGg 128645
 128620 cGGGCGGCCCTCTCCGCTCGCCGc 128645

+ ZFN-unknown-SP-5-447
 128634 gCGCAGCGCGCGCGGTCTGGGGTAc 128658
 128634 cCGTCGCCCCCGCGCAGCCCATg 128658

+ ZFN-unknown-SP-6-504
 128783 gCACCTCGCAGGCCAGGTAGGCGTGc 128808
 128783 cGTGGAGGTCCGGTCCATCCGCACg 128808

+ ZFN-unknown-SP-7-478
 128783 gCACCTCGCAGGCCAGGTAGGCGTGc 128809
 128783 cGTGGAGGTCCGGTCCATCCGCACGa 128809

+ ZFN-unknown-SP-7-479
 128825 gCCCGTCGGCGGCCAGTCCGCGCGc 128851
 128825 cGGGAGCCGCCCGGTCAGGCGCCGc 128851

+ ZFN-unknown-SP-6-505
 128840 aGTCCGCGCGCGCACGGCGTTGACg 128865
 128840 tCAGGGCCCGCGCGTGCCGCAACTGc 128865

+ ZFN-unknown-SP-5-448
 128967 gCCAGCGCCGAGACGTCTGGGGGGc 128991
 128967 cGGGTCTGGGCTCTGCAGCCCCCGc 128991

+ ZFN-unknown-SP-6-506
 128967 gCCAGCGCCGAGACGTCTGGGGGGc 128992
 128967 cGGTCTGGGCTCTGCAGCCCCCGc 128992

+ ZFN-unknown-SP-7-480
 129002 tGCCCCCAGGCGGCCGTGGCGGGC 129028
 129002 aCGGGGGGTCCGCGGCACCGCCCGg 129028

+ ZFN-unknown-SP-5-449
 129200 aGGCCGCGCGCGCGGCGAGCGGGC 129224
 129200 tCGGGGGCCGCGCGCTCGCCCGg 129224

+ ZFN-unknown-SP-6-507
 129368 cGGCCACGGCCCGGGGGCGAGTAg 129393
 129368 gCGGTGCCCGGCGCCCGCGTCATc 129393

+ ZFN-unknown-SP-7-481
 129401 gGGCGGCGGCGAGGGCGCCGGCTGt 129427
 129401 cCGCGGGCGGCTCCCGCGCCGCACa 129427

+ ZFN-unknown-SP-7-482
 129451 cGCCAGCCGCTCGGGTCTGGGGCCc 129477
 129451 gCGTCTGGCGGACGCCAGCCCGGg 129477

+ ZFN-unknown-SP-7-483

129492 gGTCAGCGCCGCGGGGcGCGCGGCCg 129518
 129492 cAGTCGCGcCGCCCGCGCCCGCc 129518

⊕ ZFN-unknown-SP-7-484
 129507 gCGCGCGCGCGCGCGCGCGCGCGCGTCCg 129533
 129507 cGCGCGCGCGCGCGCGCGCGCGCGCGAGCc 129533

⊕ ZFN-unknown-SP-7-485
 129513 cGGCCGCGCGCGCGCGCGTCCGCGCGCc 129539
 129513 gCGCGCGCGCGCGCGCGCGCGCGCGCc 129539

⊕ ZFN-unknown-SP-6-508
 129513 cGGCCGCGCGCGCGCGCGTCCGCGCGCc 129538
 129513 gCGCGCGCGCGCGCGCGCGCGCGCGCc 129538

⊕ ZFN-unknown-SP-6-509
 129516 cCGCGCGCGCGCGCGTCCGCGCGCGCc 129541
 129516 gGCGCGCGCGCGCGCGCGCGCGCc 129541

⊕ ZFN-unknown-SP-6-510
 129519 cGGCGCGCGCGTCCGCGCGCGCGCGCc 129544
 129519 gCGCGCGCGCGCGCGCGCGCGCGCGCc 129544

⊕ ZFN-unknown-SP-6-511
 129522 cGGCGCGCGTCCGCGCGCGCGCGCGCc 129547
 129522 gCGCGCGCGCGCGCGCGCGCGCGCGCc 129547

⊕ ZFN-unknown-SP-5-450
 129522 cGGCGCGCGTCCGCGCGCGCGCGCGCc 129546
 129522 gCGCGCGCGCGCGCGCGCGCGCGCGCc 129546

⊕ ZFN-unknown-SP-6-512
 129525 cGGCGTCCGCGCGCGCGCGCGCGCGCc 129550
 129525 gCGCGCGCGCGCGCGCGCGCGCGCGCc 129550

⊕ ZFN-unknown-SP-7-486
 129545 gCGCGCGCGCGCGCGGAGGCGCGCGCc 129571
 129545 cGCGCGCGCGCGCGCGCGCGCGCGCc 129571

⊕ ZFN-unknown-SP-7-487
 129548 cGGCCCCCGCGGAGGGGCGCGCGCGCc 129574
 129548 gCGCGCGCGCGCGCGCGCGCGCGCGCc 129574

⊕ ZFN-unknown-SP-6-513
 129563 gGGCGCGCGCGCGCGCGCGCGCGCGTCC 129588
 129563 cCGCGCGCGCGCGCGCGCGCGCGCGAGg 129588

⊕ ZFN-unknown-SP-6-514
 129621 gCCCCGCGCGCGCGTCCGCGCGCGCc 129646
 129621 cGGCGCGCGCGCGCGGACCGCGCGCGCc 129646

⊕ ZFN-unknown-SP-6-515
 129624 cGGCGCGCGCGTCCGCGCGCGCGCGCc 129649
 129624 gCGCGCGCGCGCGCGCGCGCGCGCGCc 129649

⊕ ZFN-unknown-SP-6-516
 129660 gCGCGCTCCCGCGCGCGCGGAGGCGCc 129685
 129660 cGCGCGGAGCGCGCGCGCGCTCCGCGCc 129685

⊕ ZFN-unknown-SP-6-517
 129663 cGCTCCCGCGCGCGCGGAGCGCGCGCc 129688
 129663 gCGGAGGCGCGCGCGCGCGCGCGCc 129688

⊕ ZFN-unknown-SP-5-451
 129663 cGCTCCCGCGCGCGCGGAGGCGCGCc 129687
 129663 gCGGAGGCGCGCGCGCGCGCGCGCc 129687

⊕ ZFN-unknown-SP-6-518
 129666 cTCCCGCGCGCGGAGGCGGCGCGg 129691
 129666 gAGGCGGCGCGCCTCCGCCCGCGCc 129691

⊕ ZFN-unknown-SP-6-519
 129698 aGTCGGCGCGGCGACGGTGTCCGgc 129723
 129698 tCAGCGGCGCGCGCTGCCACAGCCGg 129723

⊕ ZFN-unknown-SP-7-488
 129758 gGTCCCGCGCGCGGCGGCGGCGGAGc 129784
 129758 cCAGGCGGCGCGCGCGCGCGCCTCg 129784

⊕ ZFN-unknown-SP-6-520
 129761 cCGCGGCGCGCGCGCGGCGGCGAGCTc 129786
 129761 gGCGCGGCGCGCGCGCGCGCCTCAGg 129786

⊕ ZFN-unknown-SP-6-521
 129854 cGGCCACGGCGGCGCTCGCTGCCGCGc 129879
 129854 gCCGGTGCGCGCGGAGCGACGGCGCc 129879

⊕ ZFN-unknown-SP-6-522
 129857 cCACGGCGGCGCTCGCTGCCGCGCGCc 129882
 129857 gGTGCGGCGCGGAGCGACGGCGCGCg 129882

⊕ ZFN-unknown-SP-7-489
 129965 gCGCGTCGGCGTGCGGCGGGGCGGCGc 129991
 129965 cGCGCAGCGCGCACGCCGCCCGCGCc 129991

⊕ ZFN-unknown-SP-6-523
 130046 gCACGGCCGCCAGGTCGCCGTCAAag 130071
 130046 cGTGCGGCGCGTCCAGCGGCAAGTtc 130071

⊕ ZFN-unknown-SP-6-524
 130133 cCGCCTCCGCGGCGCGGCGCGCGCGCa 130158
 130133 gGCGGAGCGCGCGGCGCGCGCGGt 130158

⊕ ZFN-unknown-SP-7-490
 130147 cGGCCCGCGCCACACCGCGCGGCGCGc 130173
 130147 gCCGGGGCGGTGGTGGCGGCGCGGc 130173

⊕ ZFN-unknown-SP-7-491
 130150 cCGCCGCCACACCGCGCGCGCGGTCg 130176
 130150 gGCGGGGTGTGGCGGCGCGGCAGc 130176

⊕ ZFN-unknown-SP-6-525
 130151 cGCCGCCACACCGCGCGCGCGGTCg 130176
 130151 gCGCGGTGCGTGGCGCGCGGCAGc 130176

⊕ ZFN-unknown-SP-7-492
 130153 cGCCACCAACCGCGCGCGCGTCTCg 130179
 130153 gCGGTGGTGGCGCGCGCGGCAGc 130179

⊕ ZFN-unknown-SP-6-526
 130154 cGCCACACCGCGCGCGCGCGTCTCg 130179
 130154 gCGGTGGTGGCGCGCGCGGCAGc 130179

⊕ ZFN-unknown-SP-7-493
 130156 cCACCAACCGCGCGCGCGTCTCTCg 130182
 130156 gGTGTGGCGCGCGCGGCAGCAGc 130182

⊕ ZFN-unknown-SP-6-527
 130157 cACCAACCGCGCGCGCGTCTCTCg 130182
 130157 gTGTGGCGCGCGCGGCAGCAGc 130182

⊕

ZFN-unknown-SP-6-528
 130160 cACCGCCGGCGCGTCGTCGTCGTCg 130185
 130160 gTGGCGGCGCGGCAGCAGCAGCg 130185

⊞ ZFN-unknown-SP-6-529
 130163 cGCCGGCGCGTCGTCGTCGTCGTCg 130188
 130163 gCGGCGGCGGCAGCAGCAGCAGCg 130188

⊞ ZFN-unknown-SP-6-530
 130166 cGGCGCGTCGTCGTCGTCGTCGTCg 130191
 130166 gCCGCGGCGAGCAGCAGCAGCAGCg 130191

⊞ ZFN-unknown-SP-6-531
 130169 cGCCGTCGTCGTCGTCGTCGTCGTCg 130194
 130169 gCGGCGGCGAGCAGCAGCAGCAGCg 130194

⊞ ZFN-unknown-SP-6-532
 130172 cGTCGTCGTCGTCGTCGTCGTCGTCg 130197
 130172 gCAGCAGCAGCAGCAGCAGCAGCCGg 130197

⊞ ZFN-unknown-SP-7-494
 130184 cGTCGTCGTCGCGCCCGGCGCGGCGCGg 130210
 130184 gCAGCAGCAGCCGGGGCCGGCCGCGCc 130210

⊞ ZFN-unknown-SP-7-495
 130187 cGTCGTCGCGCCCGGCGCGCGCGGAGg 130213
 130187 gCAGCAGCGCGGGCCGGCCGCGCCTCc 130213

⊞ ZFN-unknown-SP-7-496
 130190 cGTCGGCCCGGCGGCGCGGAGGCGGg 130216
 130190 gCAGCGGCGCGCGCCGCGCTCCGCGc 130216

⊞ ZFN-unknown-SP-7-497
 130193 cGGCCCCGGCCGGCGCGGAGCGCGGCGg 130219
 130193 gCCGCGGCGCGCGCGCCTCCGCGCc 130219

⊞ ZFN-unknown-SP-6-533
 130193 cGGCCCCGGCCGGCGCGGAGGCGGCGg 130218
 130193 gCCGCGGCGCGCGCGCCTCCGCGCc 130218

⊞ ZFN-unknown-SP-5-452
 130245 gAGCACCCCGCGGCGCGCGTAGCCg 130269
 130245 cTGGTGGGGCGCGCGGCATCGGc 130269

⊞ ZFN-unknown-SP-6-534
 130247 gCACCCCGCGGCGCGGTAGCCGCGg 130272
 130247 cGTGGGGCGCGCGGCATCGGCGCc 130272

⊞ ZFN-unknown-SP-6-535
 130250 cCCCCGCGGCGCGGTAGCCGCGCGGg 130275
 130250 gGGGCGGCGCGCGCATCGGCGCGCc 130275

⊞ ZFN-unknown-SP-7-498
 130283 gCTCGTCGGCCGGCGACGCGCGCGCGg 130309
 130283 cGAGCAGCGCGCGCTGCGGCGCGGc 130309

⊞ ZFN-unknown-SP-6-536
 130290 gGCCGGCGACGCCCGCGCGACGGCa 130315
 130290 cCGGCGGCTCGCGCGCGGCTGCCGt 130315

⊞ ZFN-unknown-SP-7-499
 130301 cCGCCGCGACGGCAACGGGGCGGGCGg 130327
 130301 gCGGCGGCTGCCGTGCCCGCGCGCc 130327

⊞ ZFN-unknown-SP-6-537
 130302 cGCCGCCGACGGCAACGGGGCGGGCGg 130327

130302 gCGGCGGCTGCCGTTGCCCGCCGc 130327

⊕ ZFN-unknown-SP-6-538
 130305 cGCCGACGGCAACGGGGGCGGGGGg 130330
 130305 gCGGCTGGCGTTGCCCGCCCGCCGc 130330

⊕ ZFN-unknown-SP-6-539
 130308 cGACGGCAACGGGGCGGGCGGGGGg 130333
 130308 gCTGCGGTTGCCCCGCCGCCCGCCGc 130333

⊕ ZFN-unknown-SP-6-540
 130346 gGGCGTCGTGCGCGTCGTGCGGGTTg 130371
 130346 cCCGAGCAGCGGCAGACCGCCAAc 130371

⊕ ZFN-unknown-SP-5-453
 130372 gCGTCGCCCGCGTCGTTCGGGGGTTc 130396
 130372 cGAGCGGGCGGCAGCAGCCCCAAg 130396

⊕ ZFN-unknown-SP-5-454
 130470 gCCCTTCTGCGCGCGGTCGTAGCGg 130494
 130470 cGGAGAGACCGCGCCAGCATCGc 130494

⊕ ZFN-unknown-SP-5-455
 130578 gCCCCGCCACGCTGCCGGAATg 130602
 130578 cGGGGGGGGTGCAGCGCCTCTAc 130602

⊕ ZFN-unknown-SP-6-541
 130622 cCGCGCCGAGATCCGGAAAGAGGc 130647
 130622 gGGCGGGCTCTAGGCCTTCGTCCGg 130647

⊕ ZFN-unknown-SP-7-500
 130751 gCGCCGCGTCGCCAGCTCGGGGGCCc 130777
 130751 cGGGGGAGGCGGGTCGAGCCCGCGg 130777

⊕ ZFN-unknown-SP-6-542
 130770 gGGCGCCACACGGGCGCCGGGGCGc 130795
 130770 cCCGCGGGTGTGCCCGCGGCCCGGg 130795

⊕ ZFN-unknown-SP-6-543
 130815 cCGCGCTCCTCCGCCTCGGGCGCCc 130840
 130815 gGGCGGAGGAGGCGGAGCCCCCGGg 130840

⊕ ZFN-unknown-SP-5-456
 130833 gGGCGCCCCCAGAGGCCGGGGCGg 130857
 130833 cCCGCGGGGGTCTCCGGCCCCGCc 130857

⊕ ZFN-unknown-SP-6-544
 130835 gCGCCCCCAGAGGCGGGGGGGCTg 130860
 130835 cGGGGGGGTCTCCGGCCCCCGCAc 130860

⊕ ZFN-unknown-SP-6-545
 130879 aGCACGCGCCCCGGGGGCGGGGGCGc 130904
 130879 tCGTGCGGGGGCCCCGCCCCCGg 130904

⊕ ZFN-unknown-SP-5-457
 130879 aGCACGCGCCCCGGGGGGGGGGGGc 130903
 130879 tCGTGCGGGGGCCCCGCCCCCGg 130903

⊕ ZFN-unknown-SP-5-458
 130911 gGGCCACGGTCCCCGCTGACGTAc 130935
 130911 cCCGTCGCGAGGGGCGACTGCATg 130935

⊕ ZFN-unknown-SP-6-546
 131168 cCTCCTCGTCGTCCGCGCCGAGGGTc 131193
 131168 gGAGGAGCACCAGGCGGGCTCCCAg 131193

⊕

ZFN-unknown-SP-6-547
 131207 gGTCTGCGGCGCTGGCGGGGGCGCGg 131232
 131207 cCAGAGCGCGCAGACGCCCGCGCc 131232

⊕ ZFN-unknown-SP-6-548
 131231 gGGCGGCGTCGTCGTCTCGTCGTCg 131256
 131231 cCGCGCGCAGCAGCAGCAGCAGCc 131256

⊕ ZFN-unknown-SP-6-549
 131234 cGGCGTCGTCGTCGTCTCGTCGTCa 131259
 131234 gCGCGAGCAGCAGCAGCAGCAGCAGt 131259

⊕ ZFN-unknown-SP-7-501
 131243 cGTCGTCGTCGTCGTCAGACGAGGAGg 131269
 131243 gCAGCAGCAGCAGCAGTCTGCTCCTCc 131269

⊕ ZFN-unknown-SP-7-502
 131246 cGTCGTCGTCGTCTAGACGAGGAGGCGg 131272
 131246 gCAGCAGCAGCAGTCTGCTCCTCCGc 131272

⊕ ZFN-unknown-SP-6-550
 131249 cGTCGTCGTCTAGACGAGGAAGCGGAt 131274
 131249 gCAGCAGCAGTCTGCTCTCTCCGCTa 131274

⊕ ZFN-unknown-SP-6-551
 131348 aGGCGGCCGAGCGCCGGCGGGGGCGg 131373
 131348 tCGCGGGCTCGCGGCCGCCCGCc 131373

⊕ ZFN-unknown-SP-5-459
 131348 aGGCGGCCGAGCGCCGCGGGGGCGc 131372
 131348 tCGCGGGCTCGCGGCCGCCCGCg 131372

⊕ ZFN-unknown-SP-7-503
 131371 gCGCGCCGCGCGGCTGGTTGTTGTTGg 131397
 131371 cGCGCGGCGCCGCCACCACCACCACc 131397

⊕ ZFN-unknown-SP-6-552
 131371 gCGCGCCGCGCGGCTGGTTGTTGTTGg 131396
 131371 cGCGCGGCGCCGCCACCACCACCACc 131396

⊕ ZFN-unknown-SP-6-553
 131374 cGCCGCGCGCGTGGTGTTGTTGTTGg 131399
 131374 gCGCGCGGCGCCACCACCACCACc 131399

⊕ ZFN-unknown-SP-7-504
 131374 cGCCGCGCGCGTGGTGTTGTTGTTGg 131400
 131374 gCGCGCGGCGCCACCACCACCACc 131400

⊕ ZFN-unknown-SP-5-460
 131458 gCCCCGCGGACCGCGGACGTCGTCt 131482
 131458 cGGGGGGGCTTGGCGCTGCAGCAGa 131482

⊕ ZFN-unknown-SP-5-461
 131472 gGACGTCGTCTCCGTTCCGCGGACc 131496
 131472 cCTGCAGCAGAGGCCAGGCGCCTGg 131496

⊕ ZFN-unknown-SP-7-505
 131494 aCCCAGCGGCCCGCGTCGCGGTCGTCg 131520
 131494 tGGGTGCGCGGGCGCAGCGCCAGCAGc 131520

⊕ ZFN-unknown-SP-6-554
 131513 gGTCGTCGTATCGTCGTCGTCGTCg 131538
 131513 cCAGCAGCAGTAGCAGCAGCAGCAGc 131538

⊕ ZFN-unknown-SP-6-555

131516 cGTCGTCATCGTCGTCGTCGTCGTCg 131541
 131516 gCAGCAGTAGCAGCAGCAGCAGCAGc 131541

⊕ ZFN-unknown-SP-6-556
 131519 cGTCATCGTCGTCGTCGTCGTCGTCg 131544
 131519 gCAGTAGCAGCAGCAGCAGCAGCAGc 131544

⊕ ZFN-unknown-SP-6-557
 131606 cCGCTTCTTCTTTCGCGCGCGTCGCGc 131631
 131606 gGCGAGAGAACGCGCGCGCAGCGCGg 131631

⊕ ZFN-unknown-SP-7-506
 131618 gCGCGCCGTCGCGCTCCGCGCGCGCGc 131644
 131618 cGCGCGGAGCGCGAGGCCCGCGCGc 131644

⊕ ZFN-unknown-SP-5-462
 131691 cAGCTCCCGCGCGGAGACGACGACGCGc 131715
 131691 gTCGACGCGCCCGCTCTGCTGCGGc 131715

⊕ ZFN-unknown-SP-5-463
 131694 cTGCCGCGCGAGACGACGCGCGTCc 131718
 131694 gACGCGCGCGCTCTGCTGCGGCAg 131718

⊕ ZFN-unknown-SP-6-558
 131714 cGTCCGCGCGAGGCTCGTCGACGCGc 131739
 131714 gCAGGCGCGCTCCGAGCAGTGCCGg 131739

⊕ ZFN-unknown-SP-7-507
 131729 cGTCGACGGCTTCCCCGGACGCGCGGg 131755
 131729 gCAGCTGCGCGAGGGGCTGCGGCCc 131755

⊕ ZFN-unknown-SP-7-508
 131732 cGACGGCTCCCCGGACGCGCGCGCGc 131758
 131732 gCTGCGGAGGGGCTGCGGCCCGGc 131758

⊕ ZFN-unknown-SP-7-509
 131735 cGGCTTCCCCGGACGCCGCGCGCGCGt 131761
 131735 gCCGGAGGGCCTGCGGCCCGGCGGa 131761

⊕ ZFN-unknown-SP-7-510
 131759 cCTCGTCGGCATCGGCACTCGCGCGCGg 131785
 131759 gGAGCAGCGCTAGCCGTAGCCGCCGc 131785

⊕ ZFN-unknown-SP-7-511
 131762 cGTCGGCATCGGCATCGCGCGCGCGt 131788
 131762 gCAGCGGTAGCCGTAGCCGCCCGCa 131788

⊕ ZFN-unknown-SP-7-512
 131765 cGGCATCGGCATCGCGCGCGCGCTCGt 131791
 131765 gCCGTAGCGGTAGCCGCCGCCGCAg 131791

⊕ ZFN-unknown-SP-6-559
 131771 cGGCATCGGCGGCGGCGTCGTCGCGc 131796
 131771 gCCGTAGCGCGCGCGCAGCAGCGGg 131796

⊕ ZFN-unknown-SP-7-513
 131919 cGTCTCCCGCGCGGCCGAGACGTCc 131945
 131919 gCAGAGGCGCGCGCGGCTCTGCAGg 131945

⊕ ZFN-unknown-SP-5-464
 131921 tCTCCGCGCGGCGCGGAGACGTCc 131945
 131921 aGAGGCGCGCGCGGCTCTGCAGg 131945

⊕ ZFN-unknown-SP-7-514
 131969 cCTCGGCGCGCGGCCCTGCGTCGTCg 131995
 131969 gGAGCGGCGCGCGGACGCAGCAGc 131995

+ ZFN-unknown-SP-5-465
 131974 gCCCCCGCGCCCTGCGTCTCTCTCg 131998
 131974 cGGGGCGCCCGGGACGCAGCAGCAGc 131998

+ ZFN-unknown-SP-6-560
 132032 tCGCCTCCGACCGGGGTGTGCGGGGg 132057
 132032 aGCGAGGCTGGCCCCACACGCCCCc 132057

+ ZFN-unknown-SP-5-466
 132033 cGCCTCCGACCGGGGTGTGCGGGGg 132057
 132033 gGCGAGGCTGGCCCCACACGCCCCc 132057

+ ZFN-unknown-SP-7-515
 132033 cGCCTCCGACCGGGGTGTGCGGGGGGg 132059
 132033 gGCGAGGCTGGCCCCACACGCCCCCc 132059

+ ZFN-unknown-SP-7-516
 132064 cTTCTTCTTCTTCTTCAGGGGCGGCGGCAg 132090
 132064 gAAGAAGAAGAAGAAGTCCCCGCCGTc 132090

+ ZFN-unknown-SP-7-517
 132067 cTTCTTCTTCTTTCAGGGGCGGCAGTCg 132093
 132067 gAAGAAGAAGAAGTCCCCGCCGTACc 132093

+ ZFN-unknown-SP-7-518
 132070 cTTCTTCTTTCAGGGCGGCA GTGGGGg 132096
 132070 gAAGAAGAAGTCCCCGCCGTACCCCC 132096

+ ZFN-unknown-SP-6-561
 132113 tCTCTCCCCCGTGCGGTCTCTGc 132138
 132113 aGAGAGGGGGGGCACGCCACGCACGc 132138

+ ZFN-unknown-SP-7-519
 132304 cCGCCGCGCCCCGGCTCGCGGGGGTTc 132330
 132304 gGCGGCGCGGGGCCGAGCGGCCCAAg 132330

+ ZFN-unknown-SP-7-520
 132377 gCGCGTCCGCTCCGTGGCGGCGGCCc 132403
 132377 cGCGCAGGCGCAGGCACCGCCCGGg 132403

+ ZFN-unknown-SP-6-562
 132572 cCCCGCCGCCCCAAAGGGGCGCGGc 132597
 132572 gGGGCGGCGGGGGTTTCCCCGGCCGc 132597

+ ZFN-unknown-SP-5-467
 132621 cGGCTCCGCCCCAAAGGGGGGCGGGg 132645
 132621 gGCGAGGCGGGGTTTCCCCGCCCCc 132645

+ ZFN-unknown-SP-6-563
 132621 cGGCTCCGCCCCAAAGGGGGCGGGGc 132646
 132621 gGCGAGGCGGGGTTTCCCCGCCCCg 132646

+ ZFN-unknown-SP-6-564
 132623 gCTCCGCCCCAAAGGGGCGGGGCCg 132648
 132623 cGAGCGGGGTTTCCCCGCCCCGc 132648

+ ZFN-unknown-SP-5-468
 132624 cTCCGCCCCAAAGGGGCGGGGCCg 132648
 132624 gAGGCGGGGTTTCCCCGCCCCCGc 132648

+ ZFN-unknown-SP-6-565
 132759 gCGCTCCGCCCCAAAGGGGGCGGGGc 132784
 132759 cGCGAGGCGGGGTTTCCCCGCCCCGg 132784

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ZFN-unknown-SP-5-469
 132759 gCGCTCCGCCCAAAAGGGGGGGg 132783
 132759 cGCGAGGCGGGTTTCCCCCGCCc 132783

⊞ ZFN-unknown-SP-6-566
 132761 gCTCCGCCCAAGGGGGGGGGCg 132786
 132761 cGAGGGGGGTTTCCCCGCCCGGc 132786

⊞ ZFN-unknown-SP-5-470
 132762 cTCCGCCCAAGGGGGGGGGCCg 132786
 132762 gAGGCGGGTTTCCCCGCCCGGc 132786

⊞ ZFN-unknown-SP-6-567
 132957 gGCCGGCGTCCCGTGCGCCCGCAc 132982
 132957 cGGGCGGAGGGCCAGCGGGCGTg 132982

⊞ ZFN-unknown-SP-5-471
 132988 gCACACCGGCTGCGGGGAGACc 133012
 132988 cGTGTGGCCGACGCGCGCTCTGg 133012

⊞ ZFN-unknown-SP-5-472
 133020 cAGCGGCGCATCGCGAAGGGGGc 133044
 133020 gTCGCGGCGTAGCGCTTCCCCGg 133044

⊞ ZFN-unknown-SP-6-568
 133197 cACTGCAGCCTTATCGCAGGTACg 133222
 133197 gGTGACGTGGAAATAGCTCCATGc 133222

⊞ ZFN-unknown-SP-7-521
 133893 cCTCGACCGAGTCGTCCGAGGATGAGg 133919
 133893 gGAGCTGGCTCAGCAGGCTCCTACTC 133919

⊞ ZFN-unknown-SP-7-522
 133902 aGTCGTCCGAGGATGAGGCGGAGACc 133928
 133902 tCAGCAGGCTCCTACTCCGCCCTCTGg 133928

⊞ ZFN-unknown-SP-7-523
 133937 gGGCGCGTCGCTCCCCGCGGGAGCTc 133963
 133937 cCGCGGCGACGAGGGGCGCCCTCGAg 133963

⊞ ZFN-unknown-SP-6-569
 134127 gCTCCCCGACCGGCGTGCGGGTGTg 134152
 134127 cGAGGGGGCTGGCCGCACGCCACAc 134152

⊞ ZFN-unknown-SP-7-524
 134127 gCTCCCCGACCGGCGTGCGGGTGTGg 134153
 134127 cGAGGGGGCTGGCCGCACGCCACACc 134153

⊞ ZFN-unknown-SP-5-473
 134128 cTCCCCGACCGGCGTGCGGGTGTg 134152
 134128 gAGGGGGCTGGCCGCACGCCACAc 134152

⊞ ZFN-unknown-SP-6-570
 134128 cTCCCCGACCGGCGTGCGGGTGTGg 134153
 134128 gAGGGGGCTGGCCGCACGCCACACc 134153

⊞ ZFN-unknown-SP-7-525
 134152 gGTTTCCCCGAGGTGTGAGAAAGCGa 134178
 134152 cCAAAGGGGCTCCACACCTCTTCGct 134178

⊞ ZFN-unknown-SP-6-571
 134432 gGGCCGCGACGTGGGGCCGCCTGct 134457
 134432 cCGGGCGGTGCACCCGCGGACGAc 134457

⊞ ZFN-unknown-SP-5-474
 134450 cGCCTGCTGCAGATCTCGGGCGGAa 134474

134450 gCGGACGACGTCTAGAGCCCGCCTt 134474

⊞ ZFN-unknown-SP-6-572
 134572 gCGTTACGGCCCCGAGTGTGATGTTg 134597
 134572 cGCAATGCGCGGGGCTCACAACAAc 134597

⊞ ZFN-unknown-SP-6-573
 134575 tTACGGCCCCGAGTGTGATGTTGGCa 134600
 134575 aATGCGGGGGCTCACACTACAACGt 134600

⊞ ZFN-unknown-SP-7-526
 135405 aGACAGCTGCGTTCCCGGGTGCGCGGGc 135431
 135405 tCTGTGACCAAGGGCCAGCGGGCCg 135431

⊞ ZFN-unknown-SP-7-527
 135555 gGTTCCCCCACCACGCGTCTGTTGGTc 135581
 135555 cCAAGGGGGTGGGTGCGCAGCAACCAg 135581

⊞ ZFN-unknown-SP-6-574
 135556 gTTCCCCCACCACGCGTCTGTTGGTc 135581
 135556 cAAGGGGGTGGGTGCGCAGCAACCAg 135581

⊞ ZFN-unknown-SP-5-475
 135557 tTCCCCCACCACGCGTCTGTTGGTc 135581
 135557 aAGGGGGTGGGTGCGCAGCAACCAg 135581

⊞ ZFN-unknown-SP-6-575
 135655 cCCCGACCAACCACAGGTGGTATAGc 135680
 135655 gGGGCTGGTGGGTTCACCATATCg 135680

⊞ ZFN-unknown-SP-5-476
 135964 tTGCGTCAGCGGAAGTCCGCGGCAg 135988
 135964 aACGCAGTCCGCTTCAGGCGCCGt 135988

⊞ ZFN-unknown-SP-7-528
 136494 gCCCACCGTCCCCCGGCGAGGCTGCGc 136520
 136494 cGGGTGGCAGGGGCGGCTCCGACGCg 136520

⊞ ZFN-unknown-SP-6-576
 136567 gGACTACCCATCGTGGACCGCGCGg 136592
 136567 cCTGATGGGGTAGCACCTGCGGCGCc 136592

⊞ ZFN-unknown-SP-6-577
 136570 cTACCCATCGTGGACGCGCGGGTg 136595
 136570 gATGGGGTAGCACCTGCGGCGCCAc 136595

⊞ ZFN-unknown-SP-6-578
 136744 cCCCGACGTCCGGACCTGCGACACGg 136769
 136744 gGGGCTGCAGGCCTGGACGCTGTGc 136769

⊞ ZFN-unknown-SP-5-477
 137482 gCGCGACCCCAAAGGCGCGCGCTGc 137506
 137482 cGCGCTGGGGCTTTCGCGCGGCAGc 137506

⊞ ZFN-unknown-SP-7-529
 137532 gACAGGCCAGGTACACGTCGACGAGt 137558
 137532 cTGTCCGGGTCCATGTGCAGCTGCTCa 137558

⊞ ZFN-unknown-SP-6-579
 137590 gCACTACCGCTCGCGGCGCGCCGGGa 137615
 137590 cGTGATGGCGAGCGCCGCGGCCct 137615

⊞ ZFN-unknown-SP-5-478
 137714 gCGCTCCGCCCAAGCGCGCGGAGt 137738
 137714 cGCGAGGCGCGTTCGCGGCGCCTCa 137738

⊞

ZFN-unknown-SP-5-479
 137727 gCGCCGCGGAGTTGCTGCGCCTGCc 137751
 137727 cGCGGCGCCTCAACGACGCGGACg 137751

+ ZFN-unknown-SP-5-480
 137770 aCCCCGCTCCCCCGGGGGGCGTGg 137794
 137770 tGGGGGAGGGGGGCCCCCGCACc 137794

+ ZFN-unknown-SP-7-530
 138238 cGTCAGCCCATCCTCCTTCGGCAGTAt 138264
 138238 gCAGTCGGGTAGGAGGAAGCCGTCAta 138264

+ ZFN-unknown-SP-5-481
 138250 cTCCTTCGGCAGTATGGAGGGTGTc 138274
 138250 gAGGAAGCCGTCATACCTCCCACAg 138274

+ ZFN-unknown-SP-6-580
 138250 cTCCTTCGGCAGTATGGAGGGTGTc 138275
 138250 gAGGAAGCCGTCATACCTCCCACAGc 138275

+ ZFN-unknown-SP-7-531
 138287 cGCCGTCCCCAAAGACGTGCGGGTCGt 138313
 138287 gGCGCAGGGGTTTCTGCACGCCAGCa 138313

+ ZFN-unknown-SP-6-581
 138491 cCGCCCCCCACAGGCGGCGCGTGCg 138516
 138491 gGCGGGGGGTGTCCGCCGCGCACGc 138516

+ ZFN-unknown-SP-5-482
 138492 cGCCCCCCACAGGCGGCGCGTGCg 138516
 138492 gGCGGGGGTGTCCGCCGCGCACGc 138516

+ ZFN-unknown-SP-7-532
 138500 cACAGGCGGCGCGTGCGGAGGGCGGCc 138526
 138500 gTGTCGCGCGCGCACGCCTCCCGCCGg 138526

+ ZFN-unknown-SP-7-533
 138591 cCCCAACCCCGGGTTTCGTGGCCTGCg 138617
 138591 gGGGTGGGGCCCAAAGCACCGGACGc 138617

+ ZFN-unknown-SP-6-582
 138683 tTGCTCCCCAGAGCCTGCTGGTGGGg 138708
 138683 aACGAGGGGTCTCGGACGACCAACCc 138708

+ ZFN-unknown-SP-5-483
 138736 gCACGACCCACGGAGACGTGCGGg 138760
 138736 cGTGCTGGGTGCCTTCTGCAGCCCc 138760

+ ZFN-unknown-SP-6-583
 138938 cGCCTACGTCCGCTCCGGAGAAAGACg 138963
 138938 gCGGATGCAGGCGAGGCCTCTTCTGc 138963

+ ZFN-unknown-SP-6-584
 138941 cTACGTCCGCTCCGGAGAAAGACGCCc 138966
 138941 gATGCAGGCGAGGCCTCTTCTGCGGg 138966

+ ZFN-unknown-SP-7-534
 139061 cACAAGCCGCAACGGTCGCCGTTACGc 139087
 139061 gTGTTGCGCGTTGCCAGCGGCAATGCg 139087

+ ZFN-unknown-SP-7-535
 139112 cGCCCCGCACTGCATCCGTTGGAGTCGt 139138
 139112 gGCGGCGCTGACGTAGGCACCTCAGCa 139138

+ ZFN-unknown-SP-6-585

139115 cCGCGACTGCATCCGTGGA**GTCTCTC**g 139140
 139115 g**CGCTGAC**CTAGGCACCTCAGCAGc 139140

⊕ ZFN-unknown-SP-6-586

139118 cGACTGCATCCGTGGA**GTCTCTC**Ca 139143
 139118 g**CTGACGTAG**GCACCTCAGCAGCGt 139143

⊕ ZFN-unknown-SP-5-484

139135 tCGTCGCCACTCCCC**GCCGCGCG**g 139159
 139135 a**GCA****GCGGT**AGGGGCGGCGCCGc 139159

⊕ ZFN-unknown-SP-5-485

139138 tCGCCACTCCCCCGCC**GCGCGCG**g 139162
 139138 a**GCGGTGAGG**GGCGGCGCCCGCc 139162

⊕ ZFN-unknown-SP-6-587

139143 aCTCCCCGCGCGCG**GCGGCAAC**Gc 139168
 139143 t**GAGGGGCG**CGCCGCCCGCTTGg 139168

⊕ ZFN-unknown-SP-7-536

139154 cGGCGGCGGCAACGCC**GGGCGCGG**Gc 139180
 139154 g**CCGCGCGCG**CTTGC GGCCCCCGGCCg 139180

⊕ ZFN-unknown-SP-7-537

139313 cCGCAACCCCGGTCCG**GTGGCGCC**t 139339
 139313 g**GCGTGGGG**CCCAGGCCACCCCGGg 139339

⊕ ZFN-unknown-SP-6-588

139376 cGCCCCCGCTACCG**GCGGGGCC**c 139401
 139376 g**CGGGGGCG**ATGGCGCGGCCCGg 139401

⊕ ZFN-unknown-SP-7-538

139385 cTACCGCGCGGGGCC**TCGGCGGCC**a 139411
 139385 g**ATGGCGGG**CCCCGGAGCCGGCGt 139411

⊕ ZFN-unknown-SP-7-539

139400 cCTCGGCCGCAACGTT**TCGGTCGCC**g 139426
 139400 g**GAGCGGCG**GTTGCAAAGCCAGCGc 139426

⊕ ZFN-unknown-SP-7-540

139487 cGCACCCACACGGACCC**GCGGACGCT**c 139513
 139487 g**CGTGGGTGT**GCCTGGGCGCTGCGAg 139513

⊕ ZFN-unknown-SP-5-486

139535 cACCCCCGAACATC**GCGGCGGAC**c 139559
 139535 g**TGGGGGCT**TGTAGCGCGCCTGg 139559

⊕ ZFN-unknown-SP-5-487

139886 tGGCAGCACAACTTT**GGCGCGGCC**g 139910
 139886 a**CGTCTGTGT**TGAAACCGCGCGGc 139910

⊕ ZFN-unknown-SP-6-589

139958 tGCCACCCGAGCGGGA**TAGGGGGT**g 139983
 139958 a**CGTGGGCT**CGCCCTAATCCCCCAc 139983

⊕ ZFN-unknown-SP-7-541

139958 tGCCACCCGAGCGGGAT**TAGGGGGTG**g 139984
 139958 a**CGGTGGGCT**CGCCCTAATCCCCCAc 139984

⊕ ZFN-unknown-SP-7-542

140436 tGCCGTCCCCCTCATCG**TGGGGGGC**t 140462
 140436 a**CGGAGGGG**GAGTAGCACCCCCCGa 140462

⊕ ZFN-unknown-SP-6-590

140436 tGCCGTCCCCCTCAT**CGTGGGGGG**Gc 140461
 140436 a**CGGCAGGGC**GAGTAGCACCCCCCG 140461

+ ZFN-unknown-SP-5-488
 140439 cGTCCCCCTCATCGTGGGGGGCTg 140463
 140439 gCAGGGGGACTAGCACCCCCCGAc 140463

+ ZFN-unknown-SP-5-489
 140442 cCCCCCTCATCGTGGGGGGGCTGTct 140466
 140442 gGGGGAGTAGCACCCCCCGACa 140466

+ ZFN-unknown-SP-7-543
 140593 cCCCATCGCCCCGATTGTGTGCGGGt 140619
 140593 gGGGTAGCGCGGCTAACACACAGCCCa 140619

+ ZFN-unknown-SP-6-591
 140627 gTACAGCAGCTATGGA GCGGTGCGGTa 140652
 140627 cATGTGCTCGCATACCTCGCCAGCCAt 140652

+ ZFN-unknown-SP-5-490
 140733 gCGTACCAACTGGGGGGGGGGGGGg 140757
 140733 cGCATGGTTGACCCCCCCCCCCCCc 140757

+ ZFN-unknown-SP-6-592
 140733 gCGTACCAACTGGGGGGGGGGGGGGg 140758
 140733 cGCATGGTTGACCCCCCCCCCCCCCc 140758

+ ZFN-unknown-SP-7-544
 140733 gCGTACCAACTGGGGGGGGGGGGGGGg 140759
 140733 cGCATGGTTGACCCCCCCCCCCCCCc 140759

+ ZFN-unknown-SP-5-491
 141027 gACCTCCGGCGTCGGGACGCGCGGc 141051
 141027 cTGGAGGCGCGAGCCCTGCCGCCGg 141051

+ ZFN-unknown-SP-7-545
 141041 gGACGGCGGCCCTGCTAGTTGTGCGCGg 141067
 141041 cCTGCGGCGCGGACGATCAACAGCGCc 141067

+ ZFN-unknown-SP-5-492
 141102 aGCAGACCCCTCGCTTAAGATGGCc 141126
 141102 tCGTCTGGGGAGCGAATTCTACCGg 141126

+ ZFN-unknown-SP-5-493
 141174 gACCGACCCCCCGGGGTGAAGCGTgt 141198
 141174 cTGGCTGGGGGGGGCCCACTTCGCa 141198

+ ZFN-unknown-SP-6-593
 141176 cCGACCCCCCGGGGTGAAGCGTgt 141201
 141176 gGCTGGGGGGGCCCACTTCGCACa 141201

+ ZFN-unknown-SP-5-494
 141177 cGACCCCCCGGGGTGAAGCGTgt 141201
 141177 gCTGGGGGGGCCCACTTCGCACa 141201

+ ZFN-unknown-SP-5-495
 141317 aGGCCCCCAGATCGTGC GCGGGGc 141341
 141317 tCCGGGGGGTCTAGCAGCGCCCCg 141341

+ ZFN-unknown-SP-5-496
 141441 gTGCCCCACAACAAGTCGTGTTGGGg 141465
 141441 cACGGGGATCTTGTTCAGCAACCCc 141465

+ ZFN-unknown-SP-5-497
 141444 cCCCTACAACAAGTCGTGTTGGGGTc 141468
 141444 gGGGATGTTCTCAGCAACCCCAg 141468

+

ZFN-unknown-SP-6-594
 141555 cCCCGCCTTCGAGACC**GGGGTACG**t 141580
 141555 g**GGCGGAAG**CTCTGGGCCCATGCa 141580

⊕ ZFN-unknown-SP-5-498
 141831 gTACACCAGCACCC**TGCTGCCGCC**g 141855
 141831 c**ATGTGGTCC**TGGGACGACGGCGGc 141855

⊕ ZFN-unknown-SP-5-499
 141834 cACCAAGCACCC**TGCTGCCGCCGA**g 141858
 141834 g**TGGTCGTGG**GACGACGGCGGCTc 141858

⊕ ZFN-unknown-SP-6-595
 142140 tCTCCCCACATCCGG**GATGACGAC**g 142165
 142140 a**GAGGGGGTG**TAGGCCCTACTGCTGc 142165

⊕ ZFN-unknown-SP-5-500
 142141 cTCCCCACATCCGG**GATGACGAC**g 142165
 142141 g**AGGGGGTG**TAGGCCCTACTGCTGc 142165

⊕ ZFN-unknown-SP-6-596
 142143 cCCCCACATCCGG**GATGACGACGC**c 142168
 142143 g**GGGGTGTA**GGCCCTACTGCTGCGc 142168

⊕ ZFN-unknown-SP-7-546
 142449 cGCCACCGCCTGGTC**TCGGCGGCC**c 142475
 142449 g**CGGTGGCCG**GACCAGCAGCGCGCGGg 142475

⊕ ZFN-unknown-SP-6-597
 142686 aTGCCCCCGCGGCC**CGCCGTGGCG**t 142711
 142686 t**ACGGGGGCG**CGGGGCGGCACCGCa 142711

⊕ ZFN-unknown-SP-5-501
 142687 tGCCCGCGCGGCC**CGCCGTGGCG**t 142711
 142687 a**CGGGGGCGG**CGGGGCGGCACCGCa 142711

⊕ ZFN-unknown-SP-5-502
 142935 cGGCTCCTGCGATCC**GGCGCAGCT**t 142959
 142935 g**CCGAGGACC**CTAGGCCGCGTCGAa 142959

⊕ ZFN-unknown-SP-7-547
 143367 cACCCCCCAACCC**CGACGCCGTT**c 143393
 143367 g**TGGGGGGGG**TTTGGGCTGCGGCAAg 143393

⊕ ZFN-unknown-SP-6-598
 143368 aCCCCCCCCAACCC**GACGCCGTT**c 143393
 143368 t**GGGGGGGT**TTGGGCTGCGGCAAg 143393

⊕ ZFN-unknown-SP-7-548
 143377 aAACCAGACGCGCT**CTCGTCGTC**c 143403
 143377 t**TGGGGGCTG**CGGCAAGCAGCAGAGg 143403

⊕ ZFN-unknown-SP-7-549
 143492 gCCCGACGGCCCCCA**AGAGTCTAG**g 143518
 143492 c**GGGCTGCCG**GGGGTTCTCCAGATCc 143518

⊕ ZFN-unknown-SP-5-503
 143728 gCCCCCGCGCATT**TAAGGAGTC**g 143752
 143728 c**GGGGGGCGG**CGTAAATTCCTCAGc 143752

⊕ ZFN-unknown-SP-5-504
 143731 cCGCCGCGCATTTAA**GGAGTCGCC**g 143755
 143731 g**GCGGCGGT**AAATTCCTCAGCGGc 143755

⊕ ZFN-unknown-SP-5-505
 143987 cACAACTACTGTGG**GCCGCGGA**c 144011

143987 gTGTTTGATGACACCGGCGCCTTg 144011

⊕ ZFN-unknown-SP-7-550
 144000 gGGCCCGGAACCCCTGGATGCCTGCg 144026
 144000 cCCGGCGCCTTGGGACCTACGGACGc 144026

⊕ ZFN-unknown-SP-7-551
 144026 gGTCCCTGCGCCCGTCGTGGTGGCg 144052
 144026 cAGGGGACGCGGGCAGCACCCACCGc 144052

⊕ ZFN-unknown-SP-7-552
 144029 cCCCTGCGCCCGTCGTGGTGGCGTg 144055
 144029 gGGGACGCGGGCAGCACCCACCGGAc 144055

⊕ ZFN-unknown-SP-5-506
 144029 cCCCTGCGCCCGTCGTGGGTGGCg 144053
 144029 gGGGACGCGGGCAGCACCCACCGGc 144053

⊕ ZFN-unknown-SP-7-553
 144342 cGACCCCGACGACTACGACGAAGAAg 144368
 144342 gCTGGGGCTGCTGATGCTGCTTCTTc 144368

⊕ ZFN-unknown-SP-6-599
 144343 gACCCCGACGACTACGACGAAGAAg 144368
 144343 cTGGGGGCTGCTGATGCTGCTTCTTc 144368

⊕ ZFN-unknown-SP-6-600
 144346 cCCCGACGACTACGACGAAGAAGACg 144371
 144346 gGGGCTGCTGATGCTGCTTCTTCTGc 144371

⊕ ZFN-unknown-SP-6-601
 144349 cGACGACTACGACGAAGAAGACGACg 144374
 144349 gCTGCTGATGCTGCTTCTTCTGCTGc 144374

⊕ ZFN-unknown-SP-6-602
 144352 cGACTACGACGAAGAAGACGACGCGg 144377
 144352 gCTGATGCTGCTTCTTCTGCTGCGCc 144377

⊕ ZFN-unknown-SP-7-554
 144699 cTCCGGCCGACGCGCCGTGCGCCGTAa 144725
 144699 gAGGCGGGCTTGCGGGCACGCGGCATt 144725

⊕ ZFN-unknown-SP-5-507
 144946 gACCATCAGCACCGCGGGCGCAGTAc 144970
 144946 cTGGTAGTCTGTGGCGCCGCTCATg 144970

⊕ ZFN-unknown-SP-7-555
 145073 gGCCCCGTGCGCCTCGGGCGGGTGCTg 145099
 145073 cCGGGCGACGCGGAGCCCCGCCACGAc 145099

⊕ ZFN-unknown-SP-5-508
 145073 gGCCCCGTGCGCCTCGGGGCGGTGC 145097
 145073 cCGGGCGACGCGGAGCCCCGCCACg 145097

⊕ ZFN-unknown-SP-7-556
 145076 cCGCTGCGCCTCGGGGCGTGCTGGGg 145102
 145076 gGCGACGCGGAGCCCCGCCACGACCCc 145102

⊕ ZFN-unknown-SP-7-557
 145206 gCCCCACTTACATTGCGGTGGCGGACa 145232
 145206 cGGGGTGAATGTAAGCGCACCGCCTGt 145232

⊕ ZFN-unknown-SP-7-558
 145480 aGGCGTCTTCCGACGACGCGGACGTCg 145506
 145480 tCCGCAGAACGCTGCTGCGCTGCAGc 145506

⊕

ZFN-unknown-SP-7-559
 145483 cGTCTCCGACGACGCGGACGTGGCg 145509
 145483 gCAGAGGCTGCTGCGCTGCAGCCGc 145509

+ ZFN-unknown-SP-5-509
 145554 aCCCTGCCCGCCGGCGGGGGGc 145578
 145554 tGGGACGGGGGGCCGCGCCGCGGc 145578

+ ZFN-unknown-SP-6-603
 145559 gCCCCCGGCGCGGGCGGGCGCGGc 145584
 145559 cGGGGGGCCCGCCCGCGCGCGGc 145584

+ ZFN-unknown-SP-5-510
 145576 gCGCCGCGCCCGCGTGCCGACAGC 145600
 145576 cGGGGGGGGGCGGCACGGCGTCTGg 145600

+ ZFN-unknown-SP-6-604
 145772 gTCCGGCGGCCACCCCGCCGACAGTc 145797
 145772 cAGGCGGCGCGTGGGGCGCGTCAg 145797

+ ZFN-unknown-SP-5-511
 145899 gCGTTCACGCGCTCGGTGCCGTt 145923
 145899 cGCAAGGTGCGCAGCCACGGCGAa 145923

+ ZFN-unknown-SP-7-560
 145931 cGGCCTCGCCGTCCCGGACAGAGCCt 145957
 145931 gCCGGAGGGGACAGGGCGTCTTCGga 145957

+ ZFN-unknown-SP-7-561
 145989 cGACTTCCTCGTGCGCATGGGCCGCCa 146015
 145989 gCTGAGGAGCACGCGTACCCGGCGGt 146015

+ ZFN-unknown-SP-6-605
 146035 cGACGGCGCGCACGCGGTGCGTCCGg 146060
 146035 gCTGCCGGCGCGTGCGCCACGCAGC 146060

+ ZFN-unknown-SP-5-512
 146038 cGGCGGCGCACGCGGTGGGTGGGc 146062
 146038 gCCGGGGGTGCGCCACGCAGCCGg 146062

+ ZFN-unknown-SP-6-606
 146064 gGTTATCGCCTGTCTCTCGTGCGCCc 146089
 146064 cCAATAGCGGACAGAGCAGCACCGGg 146089

+ ZFN-unknown-SP-7-562
 146420 tCGCCCCCCCCCCCCAGGAGGGGGGc 146446
 146420 aGCGGGGGGGGGGGGTCTCCCCCGg 146446

+ ZFN-unknown-SP-6-607
 146421 cGCCCCCCCCCCCCAGGAGGGGGGc 146446
 146421 gCGGGGGGGGGGGGTCTCCCCCGg 146446

+ ZFN-unknown-SP-7-563
 146421 cGCCCCCCCCCCCCAGGAGGGGGGc 146447
 146421 gCGGGGGGGGGGGGTCTCCCCCGt 146447

+ ZFN-unknown-SP-5-513
 146422 gCCCCCCCCCCCCAGGAGGGGGGc 146446
 146422 cGGGGGGGGGGGGGTCTCCCCCGg 146446

+ ZFN-unknown-SP-6-608
 146422 gCCCCCCCCCCCCAGGAGGGGGGc 146447
 146422 cGGGGGGGGGGGGGTCTCCCCCGt 146447

+ ZFN-unknown-SP-5-514

146423 cCCCCCCCCCAGGAGGGGGCa 146447
 146423 gGGGGGGGGGGTCTCCCCCGt 146447

⊕ ZFN-unknown-SP-7-564
 146425 cCCCCCCCCCAGGAGGGGGCAGTCc 146451
 146425 gGGGGGGGGGGTCTCCCCCGTCACg 146451

⊕ ZFN-unknown-SP-6-609
 146426 cCCCCCCCCCAGGAGGGGGCAGTCc 146451
 146426 gGGGGGGGGGGTCTCCCCCGTCACg 146451

⊕ ZFN-unknown-SP-5-515
 146427 cCCCCCCCCCAGGAGGGGGCAGTCc 146451
 146427 gGGGGGGGGTCTCCCCCGTCACg 146451

⊕ ZFN-unknown-SP-5-516
 146641 cCCTGTCCCGGACGTGTCAGGa 146665
 146641 gGGAAGGGGGCCCTGCACCATCTt 146665

⊕ ZFN-unknown-SP-5-517
 146930 tGGCTCCCGCCAGCGGGGGCGGTGg 146954
 146930 aCCGAGGGCGGTGCGCCCCGCCACc 146954

⊕ ZFN-unknown-SP-7-565
 146930 tGGCTCCCGCCAGCGGGGGCGGTGGt 146956
 146930 aCCGAGGGCGGTGCGCCCCGCCACCCa 146956

⊕ ZFN-unknown-SP-7-566
 147214 gGGCTGCCGAGGGGGCGTAGGGGACc 147240
 147214 cCCGAGGGCTCCCCCGCATCCCTGg 147240

⊕ ZFN-unknown-SP-5-518
 147477 gGGCCGCACAGCTCGTAGTAGACc 147501
 147477 cCCGGGGTGTCTGAGCATCATCTGg 147501

⊕ ZFN-unknown-SP-5-519
 147585 gCGTGTCGCTCCTCTGGGCTGCAt 147609
 147585 cGCACAGGGCGAGGAGACCCGACGTa 147609

⊕ ZFN-unknown-SP-5-520
 147588 tGTCCGCTCCTCTGGGCTGCATGCc 147612
 147588 aCAGGGGAGGAGACCCGACGTACg 147612

⊕ ZFN-unknown-SP-6-610
 148520 cCGTACCTGCGATAAGGCTGCAGTGg 148545
 148520 gGCATGGACCTATTCCGACGTCACc 148545

⊕ ZFN-unknown-SP-5-521
 148698 gGCCCCCTTCGCGATGCCGCCGTg 148722
 148698 cGGGGGGAAGCGCTACGGCGGCGAc 148722

⊕ ZFN-unknown-SP-5-522
 148730 gGTCTCCGCGCGCAGCCGGTGTGc 148754
 148730 cCAGAGGGCGCGCGTCGGCCACAGg 148754

⊕ ZFN-unknown-SP-6-611
 148760 gTGCGGCGGCGACCGGGACCCCGGc 148785
 148760 cACGCCGCCCTGGCCCTGCGGCCGg 148785

⊕ ZFN-unknown-SP-6-612
 148956 cGGCCCCGCCCTTTGGGCGGAGc 148981
 148956 gCCGGGGGGGGGAAACCCCGCCTCg 148981

⊕ ZFN-unknown-SP-5-523
 148956 cGGCCCCGCCCTTTGGGGCGGAg 148980
 148956 gCCGGGGCGGGGAAACCCCGCCTc 148980

+ ZFN-unknown-SP-6-613
 148958 gCCCCGCCCCCTTGGGGCCGAGCCc 148983
 148958 cGGGCGGGCGGAAACCCCGCTCGCg 148983

+ ZFN-unknown-SP-5-524
 148959 cCCCGCCCCCTTGGGGCGGAGCCc 148983
 148959 gGGGCGGGCGGAAACCCCGCTCGCg 148983

+ ZFN-unknown-SP-6-614
 149094 cGGCCCCGCCCCCTTGGGGCGGAGc 149119
 149094 gCCGGGGCGCGGAAACCCCGCTCG 149119

+ ZFN-unknown-SP-5-525
 149094 cGGCCCCGCCCCCTTGGGGCGGAg 149118
 149094 gCCGGGGCGCGGAAACCCCGCTc 149118

+ ZFN-unknown-SP-6-615
 149096 gCCCCGCCCCCTTGGGGCGGAGCCg 149121
 149096 cGGGCGGGCGGAAACCCCGCTCGGc 149121

+ ZFN-unknown-SP-5-526
 149097 cCCCGCCCCCTTGGGGCGGAGCCg 149121
 149097 gGGGCGGGCGGAAACCCCGCTCGGc 149121

+ ZFN-unknown-SP-6-616
 149145 cGCCGGCCCCCTTGGGGCCGGCGGGg 149170
 149145 gCCGCGGGCGGAAACCCCGCGGCCc 149170

+ ZFN-unknown-SP-7-567
 149339 gGGCCGCCGCCACGACCGCGACCGCGc 149365
 149339 cCCGGGGCGCGTGCCCTGCGCTGCGCg 149365

+ ZFN-unknown-SP-7-568
 149412 gAAACCCGGCGAGCCGGGGCGCGGGcg 149438
 149412 cTTGGGGCGCTCGGCCCGCGCGGCc 149438

+ ZFN-unknown-SP-6-617
 149604 cGCACGCACGCACGGGGGGGAGAGa 149629
 149604 gCGTGCGTGCGTGCCCCCTCTCt 149629

+ ZFN-unknown-SP-7-569
 149646 cCCCCACTGCCGCCCTGAAGAAAGAAg 149672
 149646 gGGGTGACCGCGGGGACTTCTTCTTc 149672

+ ZFN-unknown-SP-7-570
 149649 cCACTGCCGCCCTGAAGAAAGAAAGa 149675
 149649 gGTGACGGCGGGGACTTCTTCTTCTc 149675

+ ZFN-unknown-SP-7-571
 149652 cTGCCGCCCTGAAGAAAGAAAGAAg 149678
 149652 gACGGGGGGGACTTCTTCTTCTTc 149678

+ ZFN-unknown-SP-7-572
 149683 cCCCCCGCACACCCCGGTCCGAGGCg 149709
 149683 gGGGGGGCGTGTGGGGCCAGCCTCCGc 149709

+ ZFN-unknown-SP-6-618
 149685 cCCCCGCACACCCCGGTCCGAGGCCa 149710
 149685 gGGGGCGGTGTGGGGCCAGCCTCCGc 149710

+ ZFN-unknown-SP-5-527
 149685 cCCCCGCACACCCCGGTCCGAGGCCg 149709
 149685 gGGGGCGGTGTGGGGCCAGCCTCCGc 149709

+

ZFN-unknown-SP-5-528
 149744 cGACGACGACGACGAGG**GCCGCGGGG**c 149768
 149744 g**CTGCTGCTG**CGTCCGGCGCCCGc 149768

⊕ ZFN-unknown-SP-7-573
 149747 cGACGACGACGAGGCCCG**GGGGCCGAG**g 149773
 149747 g**CTGCTGCGT**CCCCGGCGCCCGGCTCc 149773

⊕ ZFN-unknown-SP-7-574
 149797 gGACGTCTCCGGGCCG**GCGGAGAGC**g 149823
 149797 c**CTGCAGAGG**CCCCGGCGCCGCTCTGc 149823

⊕ ZFN-unknown-SP-5-529
 149797 gGACGTCTCCGGGCC**GCGGCGGAG**a 149821
 149797 c**CTGCAGAGG**CCCCGGCGCCGCTCt 149821

⊕ ZFN-unknown-SP-6-619
 149946 gGCCGACGACGCCGCC**GCCGATGCC**g 149971
 149946 c**GCGCTGCTG**CGGCGGCGGTACGGc 149971

⊕ ZFN-unknown-SP-7-575
 149951 aCGACCGCGCGCGGAT**GCCGATGCC**g 149977
 149951 t**GCTGCGGCG**GCGGCTACGGCTACGGc 149977

⊕ ZFN-unknown-SP-7-576
 149954 aCGCCCGCGCGGATGCC**GATGCCGAC**g 149980
 149954 t**GCGGGGCGG**GCTACGGCTACGGCTGc 149980

⊕ ZFN-unknown-SP-7-577
 149957 cCGCCCGCGATGCCGAT**GCCGACGAG**g 149983
 149957 g**GCGGGGCT**ACGGCTACGGCTGCTCc 149983

⊕ ZFN-unknown-SP-7-578
 149981 aGGCGGCCCGCGGTCC**GGGAGGGCC**g 150007
 149981 t**CCGCGGGG**CCGACAGCCCTCCGGc 150007

⊕ ZFN-unknown-SP-7-579
 149984 cGGCCCCGGCGTCCGGG**GAGGCCGTC**g 150010
 149984 g**GCGGGGCCC**CAGGCCCTCCGGCAGc 150010

⊕ ZFN-unknown-SP-7-580
 149987 cCCCGGCGTCCGGGG**AGCCGTCGAC**g 150013
 149987 g**GGGCGGCAG**GCCCTCCGGCAGCTGc 150013

⊕ ZFN-unknown-SP-6-620
 150003 gGCCGTCGACGAGCCT**GCCGCGGAC**g 150028
 150003 c**GCGCAGCTG**CTCGGACGGCGCCTGc 150028

⊕ ZFN-unknown-SP-5-530
 150024 gGACGGCGTCGTCTC**GCCGCGGCA**g 150048
 150024 c**CTGCGGCAG**CAGAGCGGCGCCGTCc 150048

⊕ ZFN-unknown-SP-5-531
 150027 cGGCGTCGTCTCGCC**GCGGCAGCT**g 150051
 150027 g**GCGCAGCAG**AGCGGCGCCGTCGAc 150051

⊕ ZFN-unknown-SP-7-581
 150098 cGCCCCCCCCGAGCGC**GACGGCGCG**c 150124
 150098 g**GGGGGGGGG**CCTCGCGCTGCCGCGCg 150124

⊕ ZFN-unknown-SP-6-621
 150111 gCGCGACGGCGCGCA**GAAGAAAGCG**g 150136
 150111 c**GCGCTGCCG**CGCGTTCTTCTTCGCc 150136

⊕ ZFN-unknown-SP-6-622
 150198 cGACGACGACGACG**GACGATGAC**g 150223

150198 gCTGCTGCTGCTGCTGCTGCTACTGc 150223

⊞ ZFN-unknown-SP-6-623
 150201 cGACGACGACGACGACGATGACGACg 150226
 150201 gCTGCTGCTGCTGCTGCTACTGCTGc 150226

⊞ ZFN-unknown-SP-6-624
 150204 cGACGACGACGACGATGACGACGACc 150229
 150204 gCTGCTGCTGCTGCTACTGCTGCTGg 150229

⊞ ZFN-unknown-SP-7-582
 150222 cGACGACGCGACGCGGGCCGCTGGgt 150248
 150222 gCTGCTGGCCCTGCGCCCGGCGACCCa 150248

⊞ ZFN-unknown-SP-5-532
 150246 gGTCCGCGGACCGGAAGACGACGTCc 150270
 150246 cAGGGGGCTGGCCTCTGCTGCAGg 150270

⊞ ZFN-unknown-SP-5-533
 150260 aGACGACGTCCGCGGTCCGCGGGGc 150284
 150260 tCTGCTGCAGCGCCAGGCGCCCGg 150284

⊞ ZFN-unknown-SP-7-583
 150342 cCACCACCACCACCACCGCCGCGGGc 150368
 150342 gGTGGTGGTGTGGTGCGGCGGCGGc 150368

⊞ ZFN-unknown-SP-6-625
 150343 cACCACCACCACCACCAGCCGCCGGGc 150368
 150343 gTGGTGGTGGTGGTGCGGCGGCGGc 150368

⊞ ZFN-unknown-SP-7-584
 150345 cCACCACCACCACCGCCGCCGGCGCGc 150371
 150345 gGTGGTGGTGTGGCGGCGGCGCGCGc 150371

⊞ ZFN-unknown-SP-6-626
 150346 cACCACCACCACCGCCGCCGGCGCGc 150371
 150346 gTGGTGGTGGTGGCGGCGGCGCGGc 150371

⊞ ZFN-unknown-SP-6-627
 150369 cGCCCCCGCGGCGCTCGGCGGCGct 150394
 150369 gCGGGGGGGCGGCCGAGCCGCGCGGa 150394

⊞ ZFN-unknown-SP-5-534
 150370 gCCCCCGCGGCGCTCGGCGGCGct 150394
 150370 cGGGGGGGGCCGCGAGCCGCGCGGa 150394

⊞ ZFN-unknown-SP-6-628
 150468 aTCCGCCTCCTCGTCTGACGACGACg 150493
 150468 tAGGCGGAGGAGCAGACTGCTGCTGc 150493

⊞ ZFN-unknown-SP-7-585
 150470 cCGCCTCCTCGTCTGACGACGACGc 150496
 150470 gCGGAGGAGCAGACTGCTGCTGCTGc 150496

⊞ ZFN-unknown-SP-7-586
 150473 cCTCCTCGTCTGACGACGACGACGc 150499
 150473 gGAGGAGCAGACTGCTGCTGCTGCTGc 150499

⊞ ZFN-unknown-SP-6-629
 150483 tGACGACGACGACGACGACGACGCGc 150508
 150483 aCTGCTGCTGCTGCTGCTGCTGCGc 150508

⊞ ZFN-unknown-SP-6-630
 150486 cGACGACGACGACGACGACGACGCGCCc 150511
 150486 gCTGCTGCTGCTGCTGCTGCGCGGg 150511

⊞

ZFN-unknown-SP-6-631
 150510 cCGCGCCCCCGCCAGcGCGCGAGAGc 150535
 150510 gGCGGGGGCGGTGCGGCGTCTGg 150535

⊕ ZFN-unknown-SP-6-632
 150549 gACCCCTCGCGCGGACGACGAGGAGg 150574
 150549 cTGGGAGCCGCGCTGCTGCTCTCc 150574

⊕ ZFN-unknown-SP-5-535
 150807 gTACGTGAGCGGGAGCCGTGGCCc 150831
 150807 cATGCGGTCCCGCTCGGCACCGGg 150831

⊕ ZFN-unknown-SP-6-633
 150838 gGCCCCCGCCCCGGGGCGCGTGCTt 150863
 150838 cCGGGGGCGGGGGCCCCGCGCACGa 150863

⊕ ZFN-unknown-SP-5-536
 150839 gCCCCCGCCCCCGGGGCGGTGCTt 150863
 150839 cGGGGGGCGGGGGCCCCGCGCACGa 150863

⊕ ZFN-unknown-SP-6-634
 150882 cAGCCGCCCGGCTCTGGGGGGCCc 150907
 150882 gTCGGGGGGCGGAGACCCCCCGGg 150907

⊕ ZFN-unknown-SP-5-537
 150885 cCGCCCCGGCTCTGGGGGGCCc 150909
 150885 gGCGGGGGCGGAGACCCCCCGGGg 150909

⊕ ZFN-unknown-SP-6-635
 150902 gGGCGCCGAGCGGAGGAGGCGCGg 150927
 150902 cCGCGGGCTCGCCTCCTCCGCGCc 150927

⊕ ZFN-unknown-SP-6-636
 150947 gGCCCCCGCGCCCGTGTGGGCGCCc 150972
 150947 cGCGGGGGCGGGGCACACCCGCGGg 150972

⊕ ZFN-unknown-SP-7-587
 150965 gGGCGCCGAGCTGGGCGACGCGCGCc 150991
 150965 cCGCGGGCTCGACCCGCTGCGCCGCg 150991

⊕ ZFN-unknown-SP-6-637
 151095 gGCCTGCTTCCGATCTCGGGCGCGg 151120
 151095 cCGGACGAAGCCTAGAGCCCGCGCc 151120

⊕ ZFN-unknown-SP-5-538
 151140 cATCTCCGCGAGCGTGGCGCGGGCc 151164
 151140 gTAGAGGGCTCGCACCGCGCCCGg 151164

⊕ ZFN-unknown-SP-5-539
 151248 cCGCTACGACCGCGCGCAGAAAGGc 151272
 151248 gGGATGCTCGCGCGCTCTTCCGg 151272

⊕ ZFN-unknown-SP-5-540
 151346 gAACCCCGACGACGGCGCGCGACGc 151370
 151346 cTTGGGGCTGCTGCCGCGCTGCGg 151370

⊕ ZFN-unknown-SP-6-638
 151371 cAACCGCCACGACGGCGACGACGCCc 151396
 151371 gTTGGGGTCTGCGCGTGTGCGGg 151396

⊕ ZFN-unknown-SP-6-639
 151409 cCGCCCGCGCGCCCCGTTGCCGTGg 151434
 151409 gCGGGGGCGGGGGCAACGGCAGc 151434

⊕ ZFN-unknown-SP-6-640

151412 cCGCCGCGCCCCGT**TGCGTCGGC**g 151437
 151412 g**GCGGGCG**GGCAACGGCAGCCGc 151437

⊕ ZFN-unknown-SP-6-641
 151415 cCGCCGCCCCGT**GCTCGGCGGC**g 151440
 151415 g**GCGGGGG**CAACGGCAGCCCGc 151440

⊕ ZFN-unknown-SP-7-588
 151415 cCGCCGCCCCGT**TGCCGTGCGCGGC**g 151441
 151415 g**GCGGGGG**CAACGGCAGCCCGc 151441

⊕ ZFN-unknown-SP-6-642
 151427 tGCCGT**CGGCGCGCGCTCGCGCGC**c 151452
 151427 a**GCGCAGCC**CGCCCGCAGCGCGc 151452

⊕ ZFN-unknown-SP-7-589
 151433 cGGCGGCGCGCTCGCC**GCGCAGAG**c 151459
 151433 g**GCGCGCG**CAGCGCGCGCTGCTCg 151459

⊕ ZFN-unknown-SP-6-643
 151467 gCCCGCGGCTACGG**GCGCGGGG**g 151492
 151467 c**GCGCGCG**ATGCCGCGCGCCCCc 151492

⊕ ZFN-unknown-SP-6-644
 151470 cGCCGGCTACGGCGCC**GCGGGGTG**c 151495
 151470 g**GCGCGATG**CCGCGCGCCCCACg 151495

⊕ ZFN-unknown-SP-5-541
 151473 cGGCTACGGCGCCG**GGGGTGTC**c 151497
 151473 g**GCGATGCC**CGCGCCCCACAGg 151497

⊕ ZFN-unknown-SP-7-590
 151523 cGCCCGCTCCGCGCC**GCGGGGCC**g 151549
 151523 g**GCGGGGAG**CGCGGCGCGCCCCGc 151549

⊕ ZFN-unknown-SP-6-645
 151524 gCCCGCCTCCGCGCC**GCGGGGCC**g 151549
 151524 c**GCGCGAGG**CGCGGCGGCCCCGc 151549

⊕ ZFN-unknown-SP-7-591
 151526 cCGCCTCCGCGCGGCC**GGGCGCAG**c 151552
 151526 g**GCGGAGGC**CGGCGGCCCCGGCTGc 151552

⊕ ZFN-unknown-SP-7-592
 151529 cTCCGCGCGCGCGG**GCGCAGAC**g 151555
 151529 g**GAGGCGCG**CCGCCCCGGCTGCTGc 151555

⊕ ZFN-unknown-SP-7-593
 151532 cCGCGCGCGCGGGCC**GACGACGAC**g 151558
 151532 g**GCGGGCGG**GCCCCGGCTGCTGCTGc 151558

⊕ ZFN-unknown-SP-6-646
 151545 gGCCGACGACGACGAC**GACGACGAC**g 151570
 151545 c**GCGTGCTG**CTGCTGCTGCTGCTGc 151570

⊕ ZFN-unknown-SP-6-647
 151548 cGACGACGACGACGAC**GACGACGGC**g 151573
 151548 g**CTGTGCTG**CTGCTGCTGCTGCCc 151573

⊕ ZFN-unknown-SP-6-648
 151551 cGACGACGACGACGAC**GACGGCGCC**g 151576
 151551 g**CTGTGCTG**CTGCTGCTGCCCGc 151576

⊕ ZFN-unknown-SP-6-649
 151554 cGACGACGACGACGAC**GGCGCGGC**g 151579
 151554 g**CTGTGCTG**CTGCTGCCGCGCGc 151579

+ ZFN-unknown-SP-6-650
 151557 cGACGACGACGACGGcGCCGGCGGTg 151582
 151557 gCTGCTGCTCTGCGCGGCGCCAc 151582

+ ZFN-unknown-SP-7-594
 151560 cGACGACGACGGCGCCGCCGTGGTg 151586
 151560 gCTGCTGCTCCGCGGCGCCACCACc 151586

+ ZFN-unknown-SP-6-651
 151560 cGACGACGACGGCGCCGCCGGTGGTg 151585
 151560 gCTGCTGCTCCGCGGCGCCACCACc 151585

+ ZFN-unknown-SP-6-652
 151563 cGACGACGGCGCGCGCGGTGGTGGGg 151588
 151563 gCTGCTGCGCGGCGCCACCACCGc 151588

+ ZFN-unknown-SP-7-595
 151563 cGACGACGGCGCGCGCGGTGGTGGCGg 151589
 151563 gCTGCTGCGCGGCGCGCACACCGCg 151589

+ ZFN-unknown-SP-6-653
 151566 cGACGGCGCGCGCGGTGGTGGCGGg 151591
 151566 gCTGCGCGCGCGCGCCACCACCGCGc 151591

+ ZFN-unknown-SP-7-596
 151566 cGACGGCGCGCGCGGTGGTGGCGGg 151592
 151566 gCTGCGCGCGCGCGCCACCACCGCGCg 151592

+ ZFN-unknown-SP-7-597
 151569 cGGCGCGCGGTGGTGCGCGCGCGg 151595
 151569 gCGCGGGCGCGCACCAACCGCGCGGc 151595

+ ZFN-unknown-SP-6-654
 151584 tGGCGCGCGCGCGCGCGCGGAGGCGg 151609
 151584 aCCGCGCGCGCGCGCGCGCTCCGCc 151609

+ ZFN-unknown-SP-6-655
 151671 cTTCGACGGCGACCTGGCGCGCGTGc 151696
 151671 gAAGCTGCGCGCTGGACCGCGGCACg 151696

+ ZFN-unknown-SP-7-598
 151751 cGGCGCGCGCGCGCACGCGACCGGc 151777
 151751 gCGCGGGGGCGGCGTGCGGCTGCGCg 151777

+ ZFN-unknown-SP-6-656
 151860 gGCCGGCGCGAGCGAGGCCCGCTGg 151885
 151860 cCGCGCGCGCGCTCGCTCCGGCGCACc 151885

+ ZFN-unknown-SP-6-657
 151863 cGGCGCGAGCGAGGCCGCCGTGGCGg 151888
 151863 gCGCGCGTCCCGCGCGCACCGGc 151888

+ ZFN-unknown-SP-6-658
 151956 gAGCTCCCGCGCGCGGCCCGCGCGGg 151981
 151956 cTCGAGGCGCGGCGGCGGCGCGc 151981

+ ZFN-unknown-SP-7-599
 151958 gCTCCGCGCGCGCGCGCGCGGACc 151984
 151958 cGAGCGGCGCGCGCGCGCGCCTGg 151984

+ ZFN-unknown-SP-6-659
 152019 gGCCGACACGTCGCGCGCGCGGACt 152044
 152019 cCGGCTGTGCAGCGCGCGCGGCTGa 152044

+

ZFN-unknown-SP-6-660
 152051 cGCGGCCCGCCTCCGcGCGCGGGAg 152076
 152051 gGCGCGGGcGAGGCGCGGCCCTc 152076

⊕ ZFN-unknown-SP-6-661
 152054 cGCGGCCCTCCGCGCCGCGGAGGcg 152079
 152054 gCGGCGGAGcGCGCGGCCCTCCGc 152079

⊕ ZFN-unknown-SP-5-542
 152055 gCCCGCCTCCGCGCCGCGGAAGCg 152079
 152055 cGGCGGAGcGCGGCCCTCCGc 152079

⊕ ZFN-unknown-SP-6-662
 152057 cCGCCTCCGCGCCGCGGAGGCGCGc 152082
 152057 gCGGAGGCGcGCGGCCCTCCGCGc 152082

⊕ ZFN-unknown-SP-6-663
 152093 gCCCCGCCCCGCGCAGGGCGCCGCGc 152118
 152093 cGGGCGGGcCGGTCTCCGCGCGGc 152118

⊕ ZFN-unknown-SP-6-664
 152096 cCGCCCCGCGCAGGGCGCCGCCGGc 152121
 152096 gCGGGGGCGGTCCCGCGGGCGCCg 152121

⊕ ZFN-unknown-SP-6-665
 152154 gGACGCCCCCGCCCCGCGCGCCCGc 152179
 152154 cCTGCGGGGcGCGGGCGCGCGCGg 152179

⊕ ZFN-unknown-SP-7-600
 152168 cCGCGGCCCGCCCTCCCGCGGGGCGc 152194
 152168 gGCGCGGCGGGAGGCGCCCCCGc 152194

⊕ ZFN-unknown-SP-7-601
 152171 cGGCGGCCCTCCCGCGGGGCGCGc 152197
 152171 gCGGCGGGcAGGCGCCCCCGCGc 152197

⊕ ZFN-unknown-SP-6-666
 152192 cCGCGCCCCCGCCCCGCGGACGCGc 152217
 152192 gGCGGGGcGCGGGCGGCTGCGGc 152217

⊕ ZFN-unknown-SP-6-667
 152195 cGCCCCCGCCCCCGCGACGCGCGc 152220
 152195 gCGGGGGcGGGCGGCTGCGCGGc 152220

⊕ ZFN-unknown-SP-5-543
 152196 gCCCCCGCCCCCGCGGACGCGCGc 152220
 152196 cGGGGGCGcGCGGCTGCGGCGGc 152220

⊕ ZFN-unknown-SP-6-668
 152198 cCCCCGCCCCCGCGACGCGCGCGc 152223
 152198 gGGGCGGGcCGGCTGCGGCGGc 152223

⊕ ZFN-unknown-SP-6-669
 152201 cCGCCCCCGCGACGCCGCGCGCGc 152226
 152201 gCGGGGCGcTGCGGCGCGCGGc 152226

⊕ ZFN-unknown-SP-7-602
 152203 gCCCCCGCGACGCCCGCGCGCGc 152229
 152203 cGGGCGGCTGCGGCGGCGGCGCGc 152229

⊕ ZFN-unknown-SP-6-670
 152204 cCCCGCGACGCCCGCGCGCGCGc 152229
 152204 gGGCGGCTcCGGCGGCGGCGCGGc 152229

⊕ ZFN-unknown-SP-7-603
 152209 cCGACGCCCGCGCGCGCGCGCGc 152235

152209 gGCTGCGGCGGCGGCGCCGGCGGCg 152235

⊕ ZFN-unknown-SP-7-604
 152224 cGGCCCGCGCCCCGCGGCGGCTGACc 152250
 152224 gCCGGGGGCGCGGGGCGCCGCGACTGg 152250

⊕ ZFN-unknown-SP-7-605
 152265 gGGCCCCGACCCGAGGGCGGCTGGCg 152291
 152265 cCCGGGGCTGGGCGTCCCGCCGACCGc 152291

⊕ ZFN-unknown-SP-7-606
 152315 aCACGCCGGCGCCCTCGGCGCGCGCCc 152341
 152315 tGTGCGGCGCCGGAGCGCGCGGCGg 152341

⊕ ZFN-unknown-SP-6-671
 152349 cTACTGCGCCCCGCGGGCCGTGGCCg 152374
 152349 gATGACGCGGGGCGCCCGGACCGGc 152374

⊕ ZFN-unknown-SP-5-544
 152518 gGCCCCGTGCGCCGCGGCGGCGGCCt 152542
 152518 cCGGGCGACGCGGCGCGCCCGCGa 152542

⊕ ZFN-unknown-SP-7-607
 152714 gGCCCCGACGGCCGCTTGGGCGGGCa 152740
 152714 cCGGGGGGTGCCGGCGGACCCGCCGt 152740

⊕ ZFN-unknown-SP-6-672
 152750 gCGCCCCGACGTCTCGGCGCTGGGc 152775
 152750 cGCGGGGCTTGACAGCCGCGACCCg 152775

⊕ ZFN-unknown-SP-5-545
 152751 cGCCCCGACGTCTCGGCGCTGGGc 152775
 152751 gCGGGGGTGGCAGAGCCGCGACCCg 152775

⊕ ZFN-unknown-SP-6-673
 152877 cGTCAACGCCGTGCGCGGCCGCGGACt 152902
 152877 gCAGTGGCGGCACGCGCGCGGCTGa 152902

⊕ ZFN-unknown-SP-7-608
 152891 gCGCCGCGGACTGGCCCGGCCGACGGGc 152917
 152891 cGGGGGGCTTGACCGGGCGGCTGCCc 152917

⊕ ZFN-unknown-SP-7-609
 152933 aGCACGCCTACCTGGCCTTGCGAGGTGc 152959
 152933 tCGTGCGGATGGAACCGGACGCTCCACg 152959

⊕ ZFN-unknown-SP-6-674
 152934 gCACGCCTACCTGGCCTTCCGAGGTGc 152959
 152934 cGTGCGGATGGACCGGACGCTCCACg 152959

⊕ ZFN-unknown-SP-5-546
 153084 gTACCCCGACGCGCCGCCGCTGCCc 153108
 153084 cATGGGGCTGCGCGGCGGCGACGc 153108

⊕ ZFN-unknown-SP-6-675
 153097 cCGCCGCTGCGCCTCTTGCCGCGGGc 153122
 153097 gGCGGGACCGCGGAGACGGCGCCCCg 153122

⊕ ZFN-unknown-SP-5-547
 153150 cTTCGGCCCCGACACGCTGGTTGCCc 153174
 153150 gAAGCCGGGGCTGTGCGACACGg 153174

⊕ ZFN-unknown-SP-7-610
 153224 gGGCCCGCGCCTCGGGCGGCGGGCGACg 153250
 153224 cCGGGGGCGGGAGCCCGCGCCGCTGc 153250

⊕

ZFN-unknown-SP-7-611
 153297 gCACCGCGCCTGCGCGcGCTGGGGCCt 153323
 153297 cGTCGGCGGACGCGCGGACCCCGGa 153323

+ ZFN-unknown-SP-7-612
 153339 gCCCGTCTACGTGGCGCTGGGGCGCGa 153365
 153339 cGGGCGATCCACCGCGACCCCGCGct 153365

+ ZFN-unknown-SP-5-548
 153339 gCCCGTCTACGTGGCGCGCTGGGGCGc 153363
 153339 cGGGCGATCACCGCGACCCCGCG 153363

+ ZFN-unknown-SP-6-676
 153443 gCGACGCGCCCCCGCTGGTGCTGCGc 153468
 153443 cGCTGCGGGGGGCGACACGACGCG 153468

+ ZFN-unknown-SP-6-677
 153448 gCGCCCCCGCTGGTGCTTGCGCGACGa 153473
 153448 cGCGGGGCGACCACGACGCGCTGct 153473

+ ZFN-unknown-SP-7-613
 153488 cGCCCCCGCAGATACGCTGGCGCTCGc 153514
 153488 gGCGGGGGTCTATGCGACCCGCAGcc 153514

+ ZFN-unknown-SP-7-614
 153509 cGTCGGCCGCGGGCCGCGCGGGGACGg 153535
 153509 gCAGCCGGCGCCCGGCGGCCCTGc 153535

+ ZFN-unknown-SP-5-549
 153549 gGGCGGCGGCGTGGAGGGTGGTGGGg 153573
 153549 cCCGCGGCGCACCTCCACCACCc 153573

+ ZFN-unknown-SP-6-678
 153549 gGGCGGCGGCGTGGAGGTGGTGGGga 153574
 153549 cCCGCGGCGCACCTCCACCACCct 153574

+ ZFN-unknown-SP-7-615
 154070 gCACGTCTCCGCGCCCGCGGGGGTc 154096
 154070 cGTCAGAGCGCGCGGGCGCCCCCAg 154096

+ ZFN-unknown-SP-6-679
 154140 gAGCCCCCGCAGGAGCGGGAAGGa 154165
 154140 cTGCGGGGGCGTCCTCGCCCTCCct 154165

+ ZFN-unknown-SP-7-616
 154143 cCCCCCGCAGGAGCGGGAGGAAGGc 154169
 154143 gGGGGGGCGTCCTCGCCCTCCCTTCCg 154169

+ ZFN-unknown-SP-6-680
 154188 gGGCTGCTGCGAGCTCGGGGCCCGGg 154213
 154188 cCGGACGACCTCGAGCCCGGCGc 154213

+ ZFN-unknown-SP-7-617
 154260 aGGCGGCGCGGGGAGGCGGCCGCGg 154286
 154260 tCCGCGGCGCCCCCTCGCGGGCGc 154286

+ ZFN-unknown-SP-7-618
 154289 cCGCAGCCCGTGGCGCGCGGGGGGga 154315
 154289 gGCGTCGGGCACCGCGCGCCCCCct 154315

+ ZFN-unknown-SP-5-550
 154433 tGGCGTCTTCGGGGGGCGGGGAGc 154457
 154433 aCCGCAGAACCCCCGGCCCTCg 154457

+ ZFN-unknown-SP-7-619

154493 aGTCCCGTCCTGCCGCGCGGGGGCG 154519
 154493 tCAGGGGCAGACGGCGCGCCCCGCGc 154519

⊕ ZFN-unknown-SP-6-681
 154500 gTCCTGCCCGCGGGGGGGGCCCGg 154525
 154500 cAGGACGGGCGCGCCCCCGCGCGc 154525

⊕ ZFN-unknown-SP-7-620
 154556 aGGCAGCCCCGCGCGCGGCGGGGGAg 154582
 154556 tCCGTCGGGCGCGCGCGCCCCCTc 154582

⊕ ZFN-unknown-SP-5-551
 154561 gCCCCGCGCGCGCGGGGGAGGGg 154585
 154561 cGGGGCGGGCGCGCCCCCTCCCc 154585

⊕ ZFN-unknown-SP-6-682
 154561 gCCCCGCGCGCGCGGGGGAGGGGc 154586
 154561 cGGGGCGGGCGCGCCCCCTCCCCg 154586

⊕ ZFN-unknown-SP-6-683
 154583 gGGCGGCGCCCGCGGGGGACGGGCCg 154608
 154583 cCCGCCGGGCGCGCCCCCTCGCCGGc 154608

⊕ ZFN-unknown-SP-6-684
 154586 cGGCGCCCGCGGGGAGGGCCCGct 154611
 154586 gCCGCCGGGCGCCCCCTCGCGGCCGa 154611

⊕ ZFN-unknown-SP-6-685
 154647 gCCCTGCCGCCCCCGGCCGCCGCCg 154672
 154647 cGGGACGGGCGCGGGCGCGCGc 154672

⊕ ZFN-unknown-SP-5-552
 154651 tGCCGCCCGCCCGCCGCCGCCCCc 154675
 154651 aCGGCCGGGCGCGCGCGCGGg 154675