- **Zinc Finger Site Type:** Array
- **Zinc Finger Engineering Method:** CoDA
- **Sequence Name:** Gene ID: 2532, HUMAN DARC Showing 2.49kb region from base 159173803 to 159176290.

**Sequence Length:** 2,490

**Nucleotide Sequence:**

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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.

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Selected Module Count: 3
Ignore Asp Overlap: True

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117 aCTTCACCTTa 107
ZF DNA Sequence

Bos taurus (cow) Build 3.1
Blast GAAGTGGAA

ZFA-unknown-2
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124 tCTCCGTACGt 134

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ZF DNA Sequence

Bos taurus (cow) Build 3.1
Blast GAGGCATGC

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Bos taurus (cow) Build 3.1
Blast GTGGCTAGG

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Bos taurus (cow) Build 3.1

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Bos taurus (cow) Build 3.1

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**ZF DNA Sequence**

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**ZF DNA Sequence**

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ZF DNA Sequence

Bos taurus (cow) Build 3.1

Blast GGGGTGGCT

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ZF DNA Sequence

Bos taurus (cow) Build 3.1

Blast TGGGTGGC

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215 cCAACCCACCc 205

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ZF DNA Sequence

Bos taurus (cow) Build 3.1

Blast GTTGGGTG

ZFA-unknown-13
222 gTGGAGGTt 212
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F3 | QPHGLAH | TGT | - | CoDA

ZF DNA Sequence

Bos taurus (cow) Build 3.1

Blast TGTGTCTAG

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ZF DNA Sequence

Bos taurus (cow) Build 3.1

Blast TGGGGTGTG

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ZF DNA Sequence

Bos taurus (cow) Build 3.1

Blast GTCTGGGTG
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**ZF DNA Sequence**

**Bos taurus (cow) Build 3.1**

**Blast GCGGGT GTC**

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**ZF DNA Sequence**

**Bos taurus (cow) Build 3.1**

**Blast GCGGGG TG1T**

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**ZF DNA Sequence**

**Bos taurus (cow) Build 3.1**

**Blast GTGAGGGGc**
**ZF DNA Sequence**

**Bos taurus (cow) Build 3.1**

**ZF DNA Sequence**

**Bos taurus (cow) Build 3.1**

**ZF DNA Sequence**

**Bos taurus (cow) Build 3.1**
### ZF DNA Sequence

**Bos taurus (cow) Build 3.1**

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**Bos taurus (cow) Build 3.1**

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**ZF DNA Sequence**

**Bos taurus (cow) Build 3.1**

Blast GTGGTGTC

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#### Bos taurus (cow) Build 3.1

**Blast** GGGGTTGGT

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### ZF DNA Sequence

#### Bos taurus (cow) Build 3.1

**Blast** GGGGTTGGT

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### ZF DNA Sequence

#### Bos taurus (cow) Build 3.1

**Blast** GGGGTTGGT

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**Bos taurus (cow) Build 3.1**

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### ZF DNA Sequence

**Bos taurus (cow) Build 3.1**

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Bos taurus (cow) Build 3.1

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ZF DNA Sequence

Bos taurus (cow) Build 3.1

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Bos taurus (cow) Build 3.1

Blast GGAGTGAA

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ZF DNA Sequence

Bos taurus (cow) Build 3.1

Blast GGTGCTGGG

ZFA-unknown-38
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513 cCCTCCACGAc 503

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ZF DNA Sequence

Bos taurus (cow) Build 3.1

Blast GGAGGTGCT

ZFA-unknown-39
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527 aCTCCGTCTCt 517

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ZF DNA Sequence

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ZF DNA Sequence

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ZF DNA Sequence

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| F3  | EKSHLTR | GGC | – | CoDA |

ZF DNA Sequence

| F1  | RRHBTTR | GGT | – | CoDA |
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ZF DNA Sequence

| F1  | RRHBTTR | GGT | – | CoDA |
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ZF DNA Sequence

| F1  | RRHBTTR | GGT | – | CoDA |
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### ZF DNA Sequence

**Bos taurus (cow) Build 3.1**

#### Blast GGGGCTGGG

**ZFA-unknown-43**
- 548 aGAGGGGCT 538
- 548 tCTCCCCGa 538

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#### ZF DNA Sequence

**Bos taurus (cow) Build 3.1**

#### Blast GAGGGGGGC

**ZFA-unknown-44**
- 619 aGTGAAAGGg 609
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#### ZF DNA Sequence

**Bos taurus (cow) Build 3.1**

#### Blast GTGAAAGG

**ZFA-unknown-45**
- 622 cGAAAGTGGAa 612
ZF DNA Sequence

Bos taurus (cow) Build 3.1

Blast GAAGTGGAA

ZF DNA Sequence

Bos taurus (cow) Build 3.1

Blast GTGGAAAGG

ZF DNA Sequence

Bos taurus (cow) Build 3.1

Blast GAAGTGGAA
ZFA-unknown-48
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708 tCCACCCCTGg 698

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ZF DNA Sequence

Bos taurus (cow) Build 3.1

Blast GGTGGGAC

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748 aCTCCACCTa 738

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ZF DNA Sequence

Bos taurus (cow) Build 3.1

Blast GAGGTTGGA

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ZF DNA Sequence

Bos taurus (cow) Build 3.1

Blast GAGGCTTGT
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792 aACACGTCCGt 802

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**ZF DNA Sequence**

**Bos taurus (cow) Build 3.1**

**Blast** TGTGCAGGC

**ZFA-unknown-52**

799 gGCAGTGGGCg 809
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**ZF DNA Sequence**

**Bos taurus (cow) Build 3.1**

**Blast** GCAGTGGGC

**ZFA-unknown-53**

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**ZF DNA Sequence**

**Bos taurus (cow) Build 3.1**
### ZF DNA Sequence

**Bos taurus (cow) Build 3.1**

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810  aCCCCATTCCg 820

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**ZFA-unknown-55**

847  cTGGGCGAGGg 837
847  gACCGGTCCCCg 837

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**ZFA-unknown-56**

893  aGGCCGCTGAc 903
893  tCCGCGACTGt 903

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Bos taurus (cow) Build 3.1
Blast GGCGCTGAC

**ZF-unknown-57**
913 cTGGGACGGCt 903
913 gACCCCTGGCa 903

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ZF DNA Sequence

Bos taurus (cow) Build 3.1
Blast TGGGACGGC

**ZF-unknown-58**
915 gGCTGGGACGg 905
915 cCGACCCCTGCC 905

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ZF DNA Sequence

Bos taurus (cow) Build 3.1
Blast GCTGGGACG

**ZF-unknown-59**
967 cTGTGCAGACa 957
967 gACACGTCTGt 957

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Bos taurus (cow) Build 3.1
Blast TGTGCAGAC

ZFA-unknown-60
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1013 tCCCCGTATCc 1003

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Bos taurus (cow) Build 3.1
Blast GGGGCATAG

ZFA-unknown-61
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1023 aCGACAACGg 1033

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Bos taurus (cow) Build 3.1
Blast GCTGTTGc

ZFA-unknown-62
1036 aGGGcAAACa 1026
1036 tCCCCGTTTgt 1026

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ZF DNA Sequence

Bos taurus (cow) Build 3.1

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1067 aCTCCTCCTt 1057

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Bos taurus (cow) Build 3.1
Blast GCAGGAAGG

ZF DNA Sequence
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ZF DNA Sequence

Bos taurus (cow) Build 3.1
Blast GAAGAGGAA

ZF DNA Sequence
1127 gGAAGGAGGAGa 1117
1127 cCTTCTCTCTct 1117

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ZF DNA Sequence

Bos taurus (cow) Build 3.1
Blast GAAGGAGGAG

ZF DNA Sequence
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1130 tATCTCTCCTc 1120

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ZF DNA Sequence

**Bos taurus (cow) Build 3.1**

**Blast TAGGAAGGA**

**ZFA-unknown-69**

1143 cTAGGAGGCTa 1133
1143 gATCCTCGAt 1133

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**Bos taurus (cow) Build 3.1**

**Blast TAGGAGGCT**

**ZFA-unknown-70**

1151 aGAGGAGGCTa 1141
1151 tCTCCCTCGAt 1141

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**Bos taurus (cow) Build 3.1**

**Blast GAGGGAGCT**

**ZFA-unknown-71**

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ZF DNA Sequence

Bos taurus (cow) Build 3.1

Blast GGAGCAGTG

2FA-unknown-72
1232 tGGAGGACAg 1222
1232 aCCTCCTCGTc 1222

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ZF DNA Sequence

Bos taurus (cow) Build 3.1

Blast GAGGGAGCA

2FA-unknown-73
1235 gGCTGGAGGAq 1225
1235 cCGACCTCCTc 1225

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Bos taurus (cow) Build 3.1

Blast GCTGGAGGA

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1238 aCCCGACCTc 1228
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**ZF DNA Sequence**

Bos taurus (cow) Build 3.1

Blast GGGGCTGGA

ZFA-unknown-75
1241 aGCTGGGGCTg 1231
1241 tCGACCCCGAc 1231

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**ZF DNA Sequence**

Bos taurus (cow) Build 3.1

Blast GCTGGGGCT

ZFA-unknown-76
1244 gGCAgCTGgg 1234
1244 cCGTCGACCCc 1234

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**ZF DNA Sequence**

Bos taurus (cow) Build 3.1

Blast GCAGCTGGG

ZFA-unknown-77
1256 tGGGGAAGCCa 1246
1256 aCCCTTCGGt 1246

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ZF DNA Sequence

Bos taurus (cow) Build 3.1

Blast GGGGAAGCC

ZFA-unknown-78
1273 cGGAGCAGGAa 1263
1273 gCCTCCTCCTt 1263

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ZF DNA Sequence

Bos taurus (cow) Build 3.1

Blast GGAGCAGGA

ZFA-unknown-79
1276 aGCCGGAGCa 1266
1276 tCGGCCCTGTCt 1266

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ZF DNA Sequence

Bos taurus (cow) Build 3.1

Blast GCCGGAGCA
ZF DNA Sequence

Bos taurus (cow) Build 3.1

Blast GATGCAGTG

ZF DNA Sequence

Bos taurus (cow) Build 3.1

Blast GCAGGAGTC

ZF DNA Sequence

Bos taurus (cow) Build 3.1

Blast TGGGAGAAC
ZF DNA Sequence

Bos taurus (cow) Build 3.1

Blast GTGGGAGAA

ZF DNA Sequence

Bos taurus (cow) Build 3.1

Blast TCGGGTGGG

ZF DNA Sequence

Bos taurus (cow) Build 3.1
ZF DNA Sequence

Bos taurus (cow) Build 3.1

ZF DNA Sequence

Bos taurus (cow) Build 3.1

ZF DNA Sequence

Bos taurus (cow) Build 3.1
ZF DNA Sequence

ZF DNA Sequence

ZF DNA Sequence
### ZF DNA Sequence

**Bos taurus (cow) Build 3.1**

- **Blast** TGGGTATGT

#### ZFA-unknown-95

1447 aGGCGGAGCTc 1457
1447 tCCGCCCTGAg 1457

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**Bos taurus (cow) Build 3.1**

- **Blast** GGGGGAGCT

#### ZFA-unknown-96

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**Bos taurus (cow) Build 3.1**

- **Blast** GGGGGAGAG

#### ZFA-unknown-97

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1466 aCTCCCCCTCt 1456

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Bos taurus (cow) Build 3.1

Blast GAGGGGGAG

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ZF DNA Sequence

Bos taurus (cow) Build 3.1

Blast GTTGAGGG

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ZF DNA Sequence

Bos taurus (cow) Build 3.1

Blast GAAGATGTA

ZFA-unknown-100
1517 aTAGGAAGAAa 1507
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**Bos taurus (cow) Build 3.1**

**Blast** TAGGAAGAA

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| F3 | RSDHLSL | TGG | – | CoDA |

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- **ZFA-unknown-101**
  - 1539 cTGGGAAGGA 1529
  - 1539 gACCTTCTCt 1529

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**ZF DNA Sequence**

- **ZFA-unknown-102**
  - 1538 aGATGGAGAC 1548
  - 1538 tCTACCTCTGa 1548

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**ZF DNA Sequence**

- **ZFA-unknown-103**
  - 1562 gGAAGCAGCTg 1572
  - 1562 cCTCGTGCAGc 1572

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  Blast GGGGCAGCT
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- ZF DNA Sequence
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  1623 tGAAGAAGGGc 1613
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ZF DNA Sequence

**Bos taurus (cow) Build 3.1**

**Blast GAGAAGGG**

**ZFA-unknown-110**

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ZF DNA Sequence

**Bos taurus (cow) Build 3.1**

**Blast GATGAAGAA**

**ZFA-unknown-111**

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ZF DNA Sequence

**Bos taurus (cow) Build 3.1**

**Blast GAGGATGAA**
ZF DNA Sequence

Bos taurus (cow) Build 3.1

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ZF DNA Sequence

Bos taurus (cow) Build 3.1

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1695 tCGCTCTCTGt 1685

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**ZF DNA Sequence**

Bos taurus (cow) Build 3.1

Blast TGGGCAGTG

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**ZF DNA Sequence**

Bos taurus (cow) Build 3.1

Blast GAAGAGGGC

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**ZF DNA Sequence**

Bos taurus (cow) Build 3.1
### ZF DNA Sequence

**Bos taurus (cow) Build 3.1**

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**Bos taurus (cow) Build 3.1**

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**ZFA-unknown-121**

1809  cTGTGTAGCCc 1819
1809  gACACATCGGg 1819

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ZF DNA Sequence

**ZFA-unknown-122**

1861  tGCTGCTAGGg 1871
1861  aCGACGATCCC 1871

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**ZFA-unknown-123**

1866  cTAGGGTGCCa 1876
1866  gATCCCACGg 1876

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Bos taurus (cow) Build 3.1

**Blast TAGGGTGCC**

**ZF-unknown-124**
1898 gGTTGCAGGCc 1908
1898 cCCACGTCCGg 1908

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ZF DNA Sequence

Bos taurus (cow) Build 3.1

**Blast GGTGCAGGC**

**ZF-unknown-125**
1926 gGTTGAGGCCt 1916
1926 cCCACTCCGGa 1916

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ZF DNA Sequence

Bos taurus (cow) Build 3.1

**Blast GGTGAGGCC**

**ZF-unknown-126**
1946 tTGGGGAGTGG 1956
1946 aACCCCTCACC 1956

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ZF DNA Sequence

Bos taurus (cow) Build 3.1

Blast TGGGGAAGTG

ZFA-unknown-127
1949 gGGAGTTGCTg 1959
1949 ccCTCACCAGAc 1959

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Bos taurus (cow) Build 3.1

Blast GGAGTTGCT

ZFA-unknown-128
1952 aGTGGCCTGCCc 1962
1952 tCCCGACGGg 1962

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ZF DNA Sequence

Bos taurus (cow) Build 3.1

Blast GTGGACTGCC

ZFA-unknown-129
1983 gGGTGACAGGCg 1973
1983 CCCACTGTCCg 1973

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### ZF DNA Sequence

**Bos taurus (cow) Build 3.1**

**Blast GGTGACAGG**

#### ZFA-unknown-130
- 2016 **gGTTGCAGAG** 2006
- 2016 **cCCACGTCTCa** 2006

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**ZF DNA Sequence**

**Bos taurus (cow) Build 3.1**

**Blast GGTGCAGAG**

#### ZFA-unknown-131
- 2032 **aGCTGAAGGC** 2042
- 2032 **tCGACTTCCGa** 2042

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**ZF DNA Sequence**

**Bos taurus (cow) Build 3.1**

**Blast GCTGAAGGC**

#### ZFA-unknown-132
- 2054 **tGTGGCCTGCa** 2044
- 2054 **aCACCAGGAGt** 2044

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Bos taurus (cow) Build 3.1

Blast GTGGCCTGC

ZFA-unknown-133
2057 gTGTGTC6cct 2047
2057 cACACACCGGa 2047

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Bos taurus (cow) Build 3.1

Blast TGTGTGGCC

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2060 tGTAGCCCTGtc 2070
2060 aCATCGACAg 2070

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Bos taurus (cow) Build 3.1

Blast GTAGCCCTG

ZFA-unknown-135
2094 tTGGGTITGTt 2104
2094 aACCCAACCaA 2104

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2113 aGGGCTGAAg 2123
2113 tCCCGACTTc 2123

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2116 gGCTGAAGAA 2126
2116 cCGACTTCTTc 2126

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2119 aCTTCTTCCGt 2129
ZF DNA Sequence

Bos taurus (cow) Build 3.1

**Blast** GAAAGG

- **ZF-unknown-139**
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  - 2194 tACCCACCAa 2204

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ZF DNA Sequence

Bos taurus (cow) Build 3.1

**Blast** TGGGGTGGT

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ZF DNA Sequence

Bos taurus (cow) Build 3.1

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ZF DNA Sequence

Bos taurus (cow) Build 3.1

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ZF DNA Sequence

Bos taurus (cow) Build 3.1

2236 tGTTGCTGTTg 2246
2236 aCAACGAC A Ac 2246

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ZF DNA Sequence

Bos taurus (cow) Build 3.1

2236 aCAACGAC A Ac 2246

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ZF DNA Sequence

Bos taurus (cow) Build 3.1

Blast GCTGTTGTC

ZF DNA Sequence

Bos taurus (cow) Build 3.1

Blast GTTGACAAC

ZF DNA Sequence

Bos taurus (cow) Build 3.1

Blast GCAGCAGGT
**ZFA-unknown-147**

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**ZF DNA Sequence**

Bos taurus (cow) Build 3.1

Blast GCTGCTGAA

**ZFA-unknown-148**

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**ZF DNA Sequence**

Bos taurus (cow) Build 3.1

Blast GCAGAAGCC

**ZFA-unknown-149**

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**ZF DNA Sequence**

Bos taurus (cow) Build 3.1
ZF DNA Sequence

Bos taurus (cow) Build 3.1

ZF DNA Sequence

Bos taurus (cow) Build 3.1

ZF DNA Sequence

Bos taurus (cow) Build 3.1
**ZFA-unknown-153**
2343 gGGCGAGGAGc 2333
2343 cCCGCTCTCgc 2333

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**ZF DNA Sequence**

**ZFA-unknown-154**
2352 gGCAGAATAg 2342
2352 cCGTCTTATCc 2342

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**ZF DNA Sequence**

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**ZF DNA Sequence**
### ZF DNA Sequence

**Bos taurus (cow) Build 3.1**

**Blast GTGGCAAGA**

**ZFA-unknown-156**

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**ZF DNA Sequence**

**Bos taurus (cow) Build 3.1**

**Blast GCGGGTGCC**

**ZFA-unknown-157**

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**ZF DNA Sequence**

**Bos taurus (cow) Build 3.1**

**Blast GGTGCGGC**

**ZFA-unknown-158**

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**Bos taurus (cow) Build 3.1**

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**ZFA-unknown-159**
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**ZFA-unknown-160**
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ZF DNA Sequence

**Bos taurus (cow) Build 3.1**

**Blast**

**ZFA-unknown-162**
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ZF DNA Sequence

**Bos taurus (cow) Build 3.1**

**Blast**

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- 2459 cCAACTGTCCa 2449

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