**Primer3 Output**

PRIMER PICKING RESULTS FOR PEX10\_unqiue

Template masking not selected

No mispriming library specified

Using 1-based sequence positions

OLIGO [start](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_start)  [len](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_len)  [tm](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_tm)  [gc%](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_gc)  [any\_th](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_any)  [3'\_th](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_three) [hairpin](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_hairpin) [seq](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_seq)

LEFT PRIMER 7 20 58.59 55.00 12.15 0.00 0.00 GCTGAGCTCCTGTAGATGGA

RIGHT PRIMER 190 20 60.04 60.00 0.00 0.00 0.00 CAGGGCAGGTGAAGGAGAAG

SEQUENCE SIZE: 201

INCLUDED REGION SIZE: 201

PRODUCT SIZE: 184, PAIR ANY\_TH COMPL: 0.00, PAIR 3'\_TH COMPL: 0.00

1 CCCACAGCTGAGCTCCTGTAGATGGAACCAGAGGTGAGGCAAGGAACTGGAGGCCCTCCC

>>>>>>>>>>>>>>>>>>>>

61 CACTGAGGTCAGCGGGGCGCAGACGCCCCCTTGTCGTGCCCTGCCTTCCTCCTGCAATCC

121 TGCAGGACTCTCCAGGGCCAAGTGCTGCCCTTGGGGCCAAAAAACAGGGCCTTCTCCTTC

<<<<<<<<<<

181 ACCTGCCCTGCAGCCATTCAG

<<<<<<<<<<

KEYS (in order of precedence):

>>>>>> left primer

<<<<<< right primer

ADDITIONAL OLIGOS

[start](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_start)  [len](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_len)  [tm](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_tm)  [gc%](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_gc)  [any\_th](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_any)  [3'\_th](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_three) [hairpin](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_hairpin) [seq](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_seq)

1 LEFT PRIMER 28 19 58.93 57.89 0.00 0.00 0.00 CCAGAGGTGAGGCAAGGAA

RIGHT PRIMER 121 19 59.39 57.89 0.00 0.00 0.00 AGGATTGCAGGAGGAAGGC

PRODUCT SIZE: 94, PAIR ANY\_TH COMPL: 0.00, PAIR 3'\_TH COMPL: 0.00

2 LEFT PRIMER 103 19 59.39 57.89 0.00 0.00 0.00 GCCTTCCTCCTGCAATCCT

RIGHT PRIMER 185 19 59.70 63.16 0.00 0.00 0.00 CAGGTGAAGGAGAAGGCCC

PRODUCT SIZE: 83, PAIR ANY\_TH COMPL: 21.72, PAIR 3'\_TH COMPL: 20.54

3 LEFT PRIMER 14 21 58.25 52.38 0.00 0.00 0.00 TCCTGTAGATGGAACCAGAGG

RIGHT PRIMER 144 19 59.70 63.16 0.00 0.00 0.00 CACTTGGCCCTGGAGAGTC

PRODUCT SIZE: 131, PAIR ANY\_TH COMPL: 0.00, PAIR 3'\_TH COMPL: 0.00

4 LEFT PRIMER 91 18 60.28 61.11 0.00 0.00 0.00 TTGTCGTGCCCTGCCTTC

RIGHT PRIMER 191 18 60.05 66.67 0.00 0.00 0.00 GCAGGGCAGGTGAAGGAG

PRODUCT SIZE: 101, PAIR ANY\_TH COMPL: 33.37, PAIR 3'\_TH COMPL: 28.03

Statistics

con too in in not no tm tm high high high high

sid many tar excl ok bad GC too too any\_th 3'\_th hair- poly end

ered Ns get reg reg GC% clamp low high compl compl pin X stab ok

Left 741 0 0 0 0 189 0 66 280 0 1 122 8 0 75

Right 656 0 0 0 0 176 0 20 312 0 1 26 27 0 94

Pair Stats:

considered 1593, unacceptable product size 1588, primer in pair overlaps a primer in a better pair 2529, ok 5

libprimer3 release 2.4.0

(primer3\_results.cgi release 4.1.0)

PRIMER PICKING RESULTS FOR PEX10\_shared

Template masking not selected

No mispriming library specified

Using 1-based sequence positions

OLIGO [start](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_start)  [len](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_len)  [tm](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_tm)  [gc%](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_gc)  [any\_th](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_any)  [3'\_th](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_three) [hairpin](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_hairpin) [seq](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_seq)

LEFT PRIMER 24 20 58.51 50.00 0.00 0.00 0.00 TACGTCAGCATCATCCAGGT

RIGHT PRIMER 125 18 59.41 66.67 0.00 0.00 0.00 CAGCAGGTAGGGCAGGAC

SEQUENCE SIZE: 329

INCLUDED REGION SIZE: 329

PRODUCT SIZE: 102, PAIR ANY\_TH COMPL: 0.00, PAIR 3'\_TH COMPL: 0.00

1 GCTACCAGACCCTGGGGGAGGAGTACGTCAGCATCATCCAGGTGGACCCATCGCGGATAC

>>>>>>>>>>>>>>>>>>>>

61 ATGTGCCCTCCTCGCTGCGCCGTGGCGTGCTGGTGACACTGCATGCCGTCCTGCCCTACC

<<<<<<<<<<<<<

121 TGCTGGACAAGGCCCTGCTCCCCCTGGAGCAGGAGCTGCAGGCTGACCCCGACAGTGGGC

<<<<<

181 GACCCTTGCAGGGGAGCCTGGGGCCAGGTGGGCGTGGCTGCTCAGGGGCGCGGCGCTGGA

241 TGCGTCACCACACGGCCACCCTGACTGAGCAGCAGAGGAGGGCGCTGCTGCGGGCGGTCT

301 TCGTCCTCAGACAGGGCCTCGCCTGCCTC

KEYS (in order of precedence):

>>>>>> left primer

<<<<<< right primer

ADDITIONAL OLIGOS

[start](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_start)  [len](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_len)  [tm](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_tm)  [gc%](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_gc)  [any\_th](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_any)  [3'\_th](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_three) [hairpin](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_hairpin) [seq](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_seq)

1 LEFT PRIMER 20 20 57.86 55.00 0.00 0.00 0.00 GGAGTACGTCAGCATCATCC

RIGHT PRIMER 106 18 59.44 61.11 14.21 10.27 0.00 GCATGCAGTGTCACCAGC

PRODUCT SIZE: 87, PAIR ANY\_TH COMPL: 0.00, PAIR 3'\_TH COMPL: 2.09

2 LEFT PRIMER 55 20 59.97 60.00 9.11 0.00 0.00 GGATACATGTGCCCTCCTCG

RIGHT PRIMER 140 18 60.05 66.67 17.25 0.00 0.00 GAGCAGGGCCTTGTCCAG

PRODUCT SIZE: 86, PAIR ANY\_TH COMPL: 11.58, PAIR 3'\_TH COMPL: 25.41

3 LEFT PRIMER 49 19 59.14 57.89 9.11 9.03 0.00 CATCGCGGATACATGTGCC

RIGHT PRIMER 137 18 60.36 66.67 1.32 0.00 0.00 CAGGGCCTTGTCCAGCAG

PRODUCT SIZE: 89, PAIR ANY\_TH COMPL: 6.78, PAIR 3'\_TH COMPL: 6.78

4 LEFT PRIMER 93 18 59.14 61.11 16.68 18.49 0.00 GTGACACTGCATGCCGTC

RIGHT PRIMER 272 18 60.05 66.67 0.00 0.00 0.00 CTGCTCAGTCAGGGTGGC

PRODUCT SIZE: 180, PAIR ANY\_TH COMPL: 0.00, PAIR 3'\_TH COMPL: 0.00

Statistics

con too in in not no tm tm high high high high

sid many tar excl ok bad GC too too any\_th 3'\_th hair- poly end

ered Ns get reg reg GC% clamp low high compl compl pin X stab ok

Left 1445 0 0 0 0 619 0 36 582 0 0 42 29 0 137

Right 1505 0 0 0 0 757 0 10 602 0 0 51 9 0 76

Pair Stats:

considered 2992, unacceptable product size 2986, primer in pair overlaps a primer in a better pair 835, ok 6

libprimer3 release 2.4.0

(primer3\_results.cgi release 4.1.0)

PRIMER PICKING RESULTS FOR METTL9\_shared

Template masking not selected

No mispriming library specified

Using 1-based sequence positions

OLIGO [start](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_start)  [len](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_len)  [tm](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_tm)  [gc%](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_gc)  [any\_th](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_any)  [3'\_th](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_three) [hairpin](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_hairpin) [seq](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_seq)

LEFT PRIMER 16 20 59.08 50.00 0.00 0.00 0.00 TGAATGGCAGAATACGGGGT

RIGHT PRIMER 172 20 59.00 55.00 0.00 0.00 0.00 GGGATGAAAGGGGAGGACAA

SEQUENCE SIZE: 185

INCLUDED REGION SIZE: 185

PRODUCT SIZE: 157, PAIR ANY\_TH COMPL: 0.00, PAIR 3'\_TH COMPL: 0.00

1 AGTCCTTGGTATAAATGAATGGCAGAATACGGGGTTCCAGTATGATGTCATCAGCTGCCT

>>>>>>>>>>>>>>>>>>>>

61 GAACTTGCTGGACCGCTGTGATCAGCCCCTGACTTTGTTAAAAGATATCAGAAGTGTCTT

121 GGAGCCAACTAGAGGCAGGGTCATCCTTGCCCTTGTCCTCCCCTTTCATCCCTATGTGGA

<<<<<<<<<<<<<<<<<<<<

181 AAACG

KEYS (in order of precedence):

>>>>>> left primer

<<<<<< right primer

ADDITIONAL OLIGOS

[start](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_start)  [len](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_len)  [tm](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_tm)  [gc%](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_gc)  [any\_th](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_any)  [3'\_th](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_three) [hairpin](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_hairpin) [seq](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_seq)

1 LEFT PRIMER 22 20 59.75 55.00 0.00 0.00 0.00 GCAGAATACGGGGTTCCAGT

RIGHT PRIMER 169 20 59.00 55.00 0.00 0.00 0.00 ATGAAAGGGGAGGACAAGGG

PRODUCT SIZE: 148, PAIR ANY\_TH COMPL: 0.00, PAIR 3'\_TH COMPL: 0.00

2 LEFT PRIMER 19 20 59.82 55.00 0.00 0.00 0.00 ATGGCAGAATACGGGGTTCC

RIGHT PRIMER 144 20 58.79 55.00 0.00 0.00 0.00 ATGACCCTGCCTCTAGTTGG

PRODUCT SIZE: 126, PAIR ANY\_TH COMPL: 10.84, PAIR 3'\_TH COMPL: 0.00

3 LEFT PRIMER 55 19 58.75 57.89 0.00 0.00 0.00 CTGCCTGAACTTGCTGGAC

RIGHT PRIMER 160 20 59.38 55.00 0.00 0.00 0.00 GAGGACAAGGGCAAGGATGA

PRODUCT SIZE: 106, PAIR ANY\_TH COMPL: 7.77, PAIR 3'\_TH COMPL: 0.00

4 LEFT PRIMER 60 18 59.17 55.56 9.24 0.00 0.00 TGAACTTGCTGGACCGCT

RIGHT PRIMER 146 19 57.77 57.89 0.00 0.00 0.00 GGATGACCCTGCCTCTAGT

PRODUCT SIZE: 87, PAIR ANY\_TH COMPL: 0.00, PAIR 3'\_TH COMPL: 0.00

Statistics

con too in in not no tm tm high high high high

sid many tar excl ok bad GC too too any\_th 3'\_th hair- poly end

ered Ns get reg reg GC% clamp low high compl compl pin X stab ok

Left 666 0 0 0 0 71 0 250 122 0 0 95 0 0 128

Right 666 0 0 0 0 62 0 175 188 0 0 31 0 0 210

Pair Stats:

considered 2661, unacceptable product size 2656, primer in pair overlaps a primer in a better pair 2625, ok 5

libprimer3 release 2.4.0

(primer3\_results.cgi release 4.1.0)

PRIMER PICKING RESULTS FOR METTL9\_unique

Template masking not selected

No mispriming library specified

Using 1-based sequence positions

OLIGO [start](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_start)  [len](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_len)  [tm](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_tm)  [gc%](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_gc)  [any\_th](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_any)  [3'\_th](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_three) [hairpin](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_hairpin) [seq](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_seq)

LEFT PRIMER 6 22 59.25 50.00 0.00 0.00 0.00 GGCAACTTAATCTGGTCACTGG

RIGHT PRIMER 184 20 59.39 55.00 3.32 0.00 0.00 CTCTGCTGGCCTCTCTTTCA

SEQUENCE SIZE: 199

INCLUDED REGION SIZE: 199

PRODUCT SIZE: 179, PAIR ANY\_TH COMPL: 0.00, PAIR 3'\_TH COMPL: 0.00

1 GGAAAGGCAACTTAATCTGGTCACTGGAGTGTTAAATTCTGTTGCTTACTTTGCTATTTG

>>>>>>>>>>>>>>>>>>>>>>

61 GGTTTGTTTGGTGATTTTGAGTTAAGGCATTGGATTATGTGACTGTTTTCTTGTCTAAAA

121 ACAAGGATGCTGCTAGCTGTTTGCCTTCTGATGTTGAATCTCAGTGAAAGAGAGGCCAGC

<<<<<<<<<<<<<<<<

181 AGAGCTTTCTAAATCTCGG

<<<<

KEYS (in order of precedence):

>>>>>> left primer

<<<<<< right primer

ADDITIONAL OLIGOS

[start](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_start)  [len](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_len)  [tm](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_tm)  [gc%](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_gc)  [any\_th](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_any)  [3'\_th](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_three) [hairpin](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_hairpin) [seq](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_seq)

1 LEFT PRIMER 52 22 57.93 40.91 0.00 0.00 0.00 TGCTATTTGGGTTTGTTTGGTG

RIGHT PRIMER 180 20 59.68 55.00 3.32 0.00 0.00 GCTGGCCTCTCTTTCACTGA

PRODUCT SIZE: 129, PAIR ANY\_TH COMPL: 0.00, PAIR 3'\_TH COMPL: 0.00

2 LEFT PRIMER 85 22 57.76 40.91 0.00 0.00 0.00 AGGCATTGGATTATGTGACTGT

RIGHT PRIMER 185 18 59.01 61.11 3.32 0.00 0.00 GCTCTGCTGGCCTCTCTT

PRODUCT SIZE: 101, PAIR ANY\_TH COMPL: 0.00, PAIR 3'\_TH COMPL: 0.00

3 LEFT PRIMER 59 23 58.24 39.13 0.00 0.00 0.00 TGGGTTTGTTTGGTGATTTTGAG

RIGHT PRIMER 163 22 57.71 40.91 0.00 0.00 0.00 TGAGATTCAACATCAGAAGGCA

PRODUCT SIZE: 105, PAIR ANY\_TH COMPL: 0.00, PAIR 3'\_TH COMPL: 0.00

4 LEFT PRIMER 8 23 58.10 43.48 0.00 0.00 0.00 CAACTTAATCTGGTCACTGGAGT

RIGHT PRIMER 106 22 57.76 40.91 0.00 0.00 0.00 ACAGTCACATAATCCAATGCCT

PRODUCT SIZE: 99, PAIR ANY\_TH COMPL: 0.00, PAIR 3'\_TH COMPL: 0.00

Statistics

con too in in not no tm tm high high high high

sid many tar excl ok bad GC too too any\_th 3'\_th hair- poly end

ered Ns get reg reg GC% clamp low high compl compl pin X stab ok

Left 693 0 0 0 0 66 0 523 7 0 0 28 18 0 51

Right 694 0 0 0 0 46 0 428 39 0 0 79 17 0 85

Pair Stats:

considered 1006, unacceptable product size 1001, primer in pair overlaps a primer in a better pair 1368, ok 5

libprimer3 release 2.4.0

(primer3\_results.cgi release 4.1.0)

PRIMER PICKING RESULTS FOR PEX10 exon 5

Template masking not selected

No mispriming library specified

Using 1-based sequence positions

OLIGO [start](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_start)  [len](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_len)  [tm](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_tm)  [gc%](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_gc)  [any\_th](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_any)  [3'\_th](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_three) [hairpin](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_hairpin) [seq](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_seq)

LEFT PRIMER 7 20 59.39 55.00 0.00 0.00 0.00 CTTGGAGGAGAGAGCCGTTT

RIGHT PRIMER 111 19 59.24 57.89 0.00 0.00 0.00 CACTCCCAGCAGAACAGGT

SEQUENCE SIZE: 136

INCLUDED REGION SIZE: 136

PRODUCT SIZE: 105, PAIR ANY\_TH COMPL: 0.00, PAIR 3'\_TH COMPL: 0.00

1 GGCCTCCTTGGAGGAGAGAGCCGTTTCCAGAAACCCCCTGTGCACCCTGTGCCTGGAGGA

>>>>>>>>>>>>>>>>>>>>

61 GCGCAGGCACCCAACAGCCACGCCCTGCGGCCACCTGTTCTGCTGGGAGTGCATCACCGC

<<<<<<<<<<<<<<<<<<<

121 GTGGTGCAGCAGCAAG

KEYS (in order of precedence):

>>>>>> left primer

<<<<<< right primer

ADDITIONAL OLIGOS

[start](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_start)  [len](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_len)  [tm](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_tm)  [gc%](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_gc)  [any\_th](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_any)  [3'\_th](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_three) [hairpin](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_hairpin) [seq](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_seq)

1 LEFT PRIMER 13 20 59.39 55.00 0.00 0.00 0.00 GGAGAGAGCCGTTTCCAGAA

RIGHT PRIMER 102 18 61.05 66.67 19.98 12.58 0.00 CAGAACAGGTGGCCGCAG

PRODUCT SIZE: 90, PAIR ANY\_TH COMPL: 0.00, PAIR 3'\_TH COMPL: 0.00

Statistics

con too in in not no tm tm high high high high

sid many tar excl ok bad GC too too any\_th 3'\_th hair- poly end

ered Ns get reg reg GC% clamp low high compl compl pin X stab ok

Left 298 0 0 0 0 80 0 12 126 0 0 32 18 0 30

Right 372 0 0 0 0 117 0 1 215 0 0 21 0 0 18

Pair Stats:

considered 20, unacceptable product size 18, primer in pair overlaps a primer in a better pair 167, ok 2

libprimer3 release 2.4.0

PEX10 Exon 6

Template masking not selected

No mispriming library specified

Using 1-based sequence positions

OLIGO [start](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_start)  [len](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_len)  [tm](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_tm)  [gc%](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_gc)  [any\_th](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_any)  [3'\_th](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_three) [hairpin](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_hairpin) [seq](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_seq)

LEFT PRIMER 178 20 58.73 55.00 0.00 0.00 0.00 TGGTAGGACTCAGCCACTTC

RIGHT PRIMER 256 20 58.70 55.00 0.00 0.00 0.00 TATGGTTTGGGGAAGGGAGG

SEQUENCE SIZE: 540

INCLUDED REGION SIZE: 540

PRODUCT SIZE: 79, PAIR ANY\_TH COMPL: 0.00, PAIR 3'\_TH COMPL: 0.00

1 GCCAAGATTTAGTCTCAGGATTAACCTTGCTTGCACAGAAGTTAGAACACTCTCAGTTTT

61 TTGTCATGTAAGATACTAACCTAGCCACCCTGGGAGAGAACAGAAAGCTGTCCCTGGCTG

121 CGCTTTCTCAGCCCTGGGAGGGGCGCCTGAACCCAGAACATTTCCCTAACCCCAACCTGG

>>>

181 TAGGACTCAGCCACTTCTTCAGGAATTTCACTTATTTGGACGGGATTTTAGGTTTCCCTC

>>>>>>>>>>>>>>>>> <<<<

241 CCTTCCCCAAACCATACAGTTGAGAAGTAATTCAGAAGTAGGCCAGAAGACACTTTATTC

<<<<<<<<<<<<<<<<

301 GTTTATATTGTGAGAAAACAGCCCCATCAGGCTTGTGTTAAGGCAATGGACTGAATGAGT

361 GCGTGCTGGGTGGGGTGGGGCACGGAGGCTGGCGGGTTGCTTCAGCCAGTGCAGTGAGAA

421 CAGCAGCCCCACGGCCCCATGGGAGGCGGCGCTGCTCTCCCCGAGGGCGGCTGGGCAGAG

481 CACATCCCCCAGGACTTGATGACCACACGGGGCAGAGAGAAACCAACCAAGGCCAGCACC

KEYS (in order of precedence):

>>>>>> left primer

<<<<<< right primer

ADDITIONAL OLIGOS

[start](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_start)  [len](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_len)  [tm](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_tm)  [gc%](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_gc)  [any\_th](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_any)  [3'\_th](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_three) [hairpin](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_hairpin) [seq](https://primer3.ut.ee/cgi-bin/primer3/primer3/primer3web_help.cgi#p3w_primer_seq)

1 LEFT PRIMER 237 20 58.70 55.00 0.00 0.00 0.00 CCTCCCTTCCCCAAACCATA

RIGHT PRIMER 331 20 58.53 55.00 0.00 0.00 0.00 CCTGATGGGGCTGTTTTCTC

PRODUCT SIZE: 95, PAIR ANY\_TH COMPL: 0.00, PAIR 3'\_TH COMPL: 0.00

2 LEFT PRIMER 312 20 58.53 55.00 0.00 0.00 0.00 GAGAAAACAGCCCCATCAGG

RIGHT PRIMER 507 20 59.31 55.00 0.00 0.00 0.00 TGTGGTCATCAAGTCCTGGG

PRODUCT SIZE: 196, PAIR ANY\_TH COMPL: 0.00, PAIR 3'\_TH COMPL: 0.00

3 LEFT PRIMER 24 20 58.23 45.00 0.00 0.00 0.00 ACCTTGCTTGCACAGAAGTT

RIGHT PRIMER 197 20 58.73 55.00 0.00 0.00 0.00 GAAGTGGCTGAGTCCTACCA

PRODUCT SIZE: 174, PAIR ANY\_TH COMPL: 0.00, PAIR 3'\_TH COMPL: 0.00

4 LEFT PRIMER 351 19 59.21 57.89 0.00 0.00 0.00 CTGAATGAGTGCGTGCTGG

RIGHT PRIMER 536 20 59.04 55.00 3.32 0.00 0.00 CTGGCCTTGGTTGGTTTCTC

PRODUCT SIZE: 186, PAIR ANY\_TH COMPL: 0.00, PAIR 3'\_TH COMPL: 0.00

Statistics

con too in in not no tm tm high high high high

sid many tar excl ok bad GC too too any\_th 3'\_th hair- poly end

ered Ns get reg reg GC% clamp low high compl compl pin X stab ok

Left 2737 0 0 0 0 685 0 905 489 0 0 19 15 0 624

Right 2719 0 0 0 0 683 0 747 599 0 0 9 19 0 662

Pair Stats:

considered 287, unacceptable product size 281, primer in pair overlaps a primer in a better pair 113, ok 6

libprimer3 release 2.4.0

(primer3\_results.cgi release 4.1.0)