

Annotated representative reads

Note: All nested PCR primers are highlighted in yellow.

>40f50102-7ced-4302-b9b3-eaa885fef08a → circ-BOK-1 in MDAH-2774 (priming from Exon 4)

TGGCTGGCCACATCTTCTCTGCAGGCATCACGTGGGGCAAGGTGGTGTCCCCTGTATGCGGTGGCCGCGGGGCTGGCCG
TGGACTGTGTGAGGCAGGCCAGCCTGCCATGGTCCACGCCCTCGTGGACTGCCTGGGGAGTTTCGTGCGCAAGACCCTG
GCAACCTGGCTGCGGAGACGCGGCGGATGGACTGATGTCTCAAGTGTGTGGTCAGCACAGACCCTGGCCTCCCGCTCC
CACTGGCTGGTGGCTGCACTCTGCGGCTTCGGCCTTCCTGAAGGCTGCCTTCTTCGTGCTGCTGCCAGAGATGAGCTGC
CCACCTGGCAGTGGCCGACGCTGGCCTCTGGGCCCAACGCAGGAAGGCCCTCAGCACCCGAACACATCTTCCTCCTCC
CCACCGAGCCTGGTGCCTCTAACCTCGGAGACCCCTAAGCCCCACCGTCTCCAAGGCGATGAGCTGGAGATGATCCGG
CCCAGCGTCTACCGCAACGTGGC

>e57925de-d209-4fb2-b854-e51efd1e79d1 → circ-BOK-2 in Ishikawa (priming from Exon 4)

TGGCTGGCCACATCTTCTCTTTCAGACTGATGTCTCAAGTGTGTGGTCAGCACAGACCCTGGCCTCCGCTCCCACTG
GCTGGTGGCTGCACTCTGCAGCTTCGTGCGCTTCCTGAAGGCTGCCTTCTTCGTGCTGCTGCCAGAGAGATGATCCGGC
CCAGCGTCTACCGCAACGTGGC

>b0aefb15-0a92-46e5-a22f-813cae5ffadc → circ-BOK-3 in LNCaP (priming from Exon 5)

GCAAGACCCTGGCAACCTGGCTGCGGAGACGCGGCGGATGGACTGATGTCTCAAGTGTGTGGTCAGCACAGACCCTGG
CCTCCGCTCCCACTGGCTGGTGGCTGCACTCCGCGGCTTCGGCCGCTTCCTGAAGGCTGCCTTCTTCGTGCTGCTGCCA
GAGAGATGAGCTGCCACCTGGCAGTGGCCGACGCTGGCCCTCTGGGCCCAACGCAGGAGGCCCTCAGCACCCGAACA
CATCTTCTCTGCAGGCATCACGTGGGGCAAGGTGGTGTCCCCTGTATGC

>fddfbaea-2d68-4b0d-9418-edaec2e4adf7 → circ-BOK-4 in Ishikawa (priming from Exon 4)

TGGCTGGCCACATCTTCTCTGCAGACTGATGTCTCAAGTGTGTGGTCAGCACAGACCCTGGCCTCCGCTCCCACTGGC
TGGTGGCTGCACTCTGCAGCTTCGGCCGCTTCCTGAAGGCTGCCTTCTTCGTGCTGCTGCCGCGTGGCGATGAGCTGGA
GATGATCCGGCCAACGCGTCTACCGCAACGTGGC

>72967aa0-9547-40c0-86c9-b4d4ac38e8e2 → circ-BOK-5 in MDAH-2774 (priming from Exon 6)

GAGATGAGCTGCCCACCTGGCAGTGGCCAGCCTGGCCCTCTGGGCCCAACGCAGGAGGCCCTCAGCACCCGAACACATC
TTCCTCCTCCCCACCCGAGCCTGGAGCCTCTAACCTCGGAGACCCCTAAGCCCCGTTCTCCGAGGCCCCCATTATG
GAAACTGCGCCACCGGGCTGAGGTAGCCAAAACCTCAGTATTCGTTGGTGCTGTGAGGACATCTGGGGGTGCTCGGTT
CTGGGGTCAACACGGTCCACTGGCTGCCCCACCGTCTCCAAGGCGATGAGCTGGAGATGATCCGGCCCAGCGTCTACC
GCAACGTGGCGCGTCAGCTGCACATCTCCCTGCAGTCTGAGCCTGTGGTGACCGATGGGCCGTTCTTGCCGTGGCTGG
CCACATCTTCTCTGCAGGCATCACGTGGGGCAAGGTGGTGTCCCCTGCGGTGGCCGCGGGGCTGGCCGTGGACTGTGTG
AGGCAGGCCAGCCTGCCATGGTCCACGCCCTCGTGGACTGCCTGGGGGAGTTTCGTGCGCAAGACCCTGCCGCCTGGCT
GCGGAGACGCGGCAGATGGACTGATGTCCTCAAGTGTGTGGTCAGC

>ae1e242f-2394-4e1c-96aa-e4f4b8f45fd3 → circ-BOK-6 in ES-2 (priming from Exon 6)

GAGATGAGCTGCCCACCTGGCAGTGGCCGACGCTGGCCCTCTGGGCCCAACGCAGGAGGCCCTCAGCACCCGAACACA
TCTTCTCCTCCCCACCCGAGCCTGGAGACTCTAACCTCGGAGACCCCTAAGCCCCGTTCTCCGAGACCAGGC
CCTGGAAGGGGTGAGTGGGGAGGGGCTTTCCTGAGCCTGGAGCTGGGCTTTGGGGCAGCCTGCGACCCCTCCCCGCTTGT
GTCCCTTCTCCTGTGATCTCTGTGTTTTCCCTTTTCTTTCTGGGGCCAGGAAGTCAGGGTCAACTCCAGGCCTCAGAT
GCAGGGGCCAGAACACCTGCTCTTGCTGACCCACACAGGCGATGAGCTGGAGATGATCCGGCCCAGCGTCTACCGCAA
CGTGGCGCGTCAGCTGCACATCTCCCTGCAGTCTGAGCCTGTGGTGACCGATGCGTTCTTGCCGTGGCTGGCCACATC
TTCTCTGCAGGCATCACGTGGGGCAAGGTGGTGTCCCCTGTATGCGGTGGCCGCGGGAGCTGGCCGTGGACTGTGTGAGG

CAAGCCCAGCCTGCCATGGTCACGTCCTCGTGGACTGCCTGGGGAGTTCTGTGCGCAAGACCCTGGCAGCCTGGCTGCGG
AGACGGCGGATGGACTGATAAATGTCCTCAAGTGTGTGGTCAGC

>5910e378-b0e4-4b28-b8be-58baa5bc431f → circ-BOK-7 in ES-2 (priming from Exon 5)

GCAAGACCCTGGCAACCTGGCTGCGGAGACGCGGCGGATGGACTGATGTCCCTCAAGTGTGTGGTCAGCACAGACCCTGG
CCTCCGCTCCCACTGGCTGGTGGCTGCACTCTGCAGCTTCGGCCGCTTCCTGAAGGCTGCCTTCTTCGTGCTGCTGAGC
CTGTGGTGACCGATGCGTTCCCTGGCCGTGGCTGGCCACATCTTCTCTGCAGGCATCACGTGGGGCAAGGTGGTGTCCCT
GTATGC

>49b2f77f-988a-4045-af97-0b7c17e0cc40 → circ-BOK-8 in LNCaP (priming from Exon 4)

TGGCTGGCCACATCTTCTCTGCAGGCATCACGTGGGGCAAGGTGGTGTCCCTGTATGCGGTGGCCGCGGGGCTGCTGCG
CCTGGGCGATGAGCTGGAGATGATCGGCCCAGCSTCTACCGCAACGTGGC

>06b36cf2-0bf7-47fd-b447-5fc15140a3ec → circ-BOK-8 in MDAH-2774 (priming from Exon 4)

TGGCTGGCCACATCTTCTCTGCAGGCATCACGTGGGGCAAGGTGGTGTCCCTGTATGCGGTGGCCGCGGGGCTGCTGCG
GCCTGGGCGATGAGCTGGGAGATGATCCGGCCCAGCSTCTACCGCAACGTGGC

>064a6d7b-9bea-46f5-9f5e-f55172efb4cc → circ-BOK-9 in Ishikawa (priming from Exon 4)

TGGCTGGCCACATCTTCTCTCTGCAGGTATGCCAGCCTGCCCGTCCCATGGGACCTCGGGGAGGGATCCAGGGTCTGT
GGCTCAGGACAGCGGCAACCAGCCAGGTGGGAGCGTGGCGGTGCGGGTGGCCCAGGACAGCAGCTCAGCCTCTGCATC
TGAGGTGGTCCCTGAGCCATGCTGAAGGCCTGAGCCGGGCTCTCGGGCTGTCCCCTGCTCTCACCCCAATGCTTTCTCT
GCCCAGCCCCTCCCACTCGGGCTCCTGCTCTCACCCAGTGCTTTCTCTGCTGACCCCTCCCGCCAGGGTCTGGCCG
TCACCTGGTCCCTCCTGCTCTGGGCAGCTCGGCTGCCTGTCGGCTGTGAGTCACCAGCAGGCACGACCCACGCTCTCG
CAGGATTCCCGCCCCACCGGCTTGGCCGGCTAGGCTTAGGGGCTGGCTCGTCAGAGGGGCAGGACTGGGGGCGCCTTCA
ATACTTCCTTGGTCTTCTGGTCCCTAGGGGCCAAGGTTGGGGGATGGCCAGGGAGGTGAGATGGGGTCGAAATTAGGT
GGGAATCAGACAAGTGAGGAGCAGGCTGGAATTCAGCATAGTCAGGTGGGGTCAGGTGCAGGGTGTGCTTGCCCAAGCC
AGTCGTGTCCAGGAAGCTGGGACGTGGGCTCTTCTCACCTGCTCTTGTGACCACACAGCGCATGAGCTGGAGTGAGTC
CGACGCGSTCTACCGCAACGTGGC

>4eabdaf0-1f90-4da1-96c6-23c466d44f10 → circ-BOK-10 in LNCaP (priming from Exon 6)

GAGATGAGCTGCCACCTGGCAGTGGCCGCAGCCGGCCTCTGGGCCCAACGCAGGAGGCCCTCAGCACCCGAACATCTT
CCTCCTCCCCACCCGAGCCTGGAGCACTCTAACCCTCGGAGACACAAGCCCCACGTTCTCCGCAGACCCAGGCCCTCCG
GAAGGGACTGATGTCCTCCAAGTGTGTGGTCAGC

>e16bb921-25bd-4670-b7c6-2ed50d7509be → circ-BOK-10 in OVCAR-3 (priming from Exon 6)

GAGATGAGCTGCCACCTGGCAGTGGCCGCAGCCTGGCCCTCTGGGCCCAACGCAGGAGGCCCTCAGCACCCGGCTGCA
TCTTCCTCCTCCCCACCCGAGCCTGGACACTCTAACCCTCGGAGACCCCCCTAAGCCCCGTTCTCCACCAGACCCAGGC
CCTCCGGAAGGGACTGATGTCCTCCAAGTGTGTGGTCAGC

>0e49396b-21a7-440d-96cc-c6ada579a481 → circ-BOK-11 in MDAH-2774 (priming from Exon 5)

GCAAGACCCTGGCAACCTGGCTGCGGAGACGCGGCGGATGGACTGATGTCCCTCAAGTGTGTGGTCAGCACAGACCCTGG
CCTCCGCTCCCACTGGCTGGTGGCTGCACATCTCCCTGCAGTCTGAGCCTGTGGTGACCGATGCGTTCCCTGGCCGTGGC
TGGCCACATCTTCTCTGCAGGCATCACGTGGGGCAAGGTGGTGTCCCTGTATGC

>3e70100c-1f67-4988-af52-0cbcb027d1c3 → circ-BOK-12 in Ishikawa (priming from Exon 5)

GCAAGACCCTGGCAACCTGGCTGCGGAGACGCGGCGGATGGGTGAGCGCCTGAGTGCCCGTGTGGGTGAGAGAGGCTGC
TCCCATCTCAGTTCAGCCTCAGCAGGTTAGGGGTCTGGGAGGCAGTTTCTCTGCAGGCCTCAGCTTCTTTATGTGTAAA

ATGTGGACGCCAGGCCTGTTGGCCAGGAACAGGCAGCCCAGGGTGCCACCCGTGAGGTCACTGGCTGCTCACTCCATCT
GCTGCTGCCCTCAGTTCCTCGCCTACCCACGTTGTCCCTGCGGCCTCCTGCACAGACGTGGGCTGGGCAGGTGTGCA
GTGGAGGCCGAGAACTGCCTGCCAAGAACTGCCTGACAGGCATCCTGTCAGGGAGCAGTCCCCGCAGGACGGTCCC
TGGTCATTAGCTGGACGGCAAGCAGGACAGCGGCTCAGAGGAGCCCAGCCCCTTCTTAAGTGCTCCCGTGGGCCGGG
ATTCAAGTCCTGATCTTGACCATCTCTCTCCCTGCAGGCATCACGTGGGGCAAGGTGGTGTCCCTGTATGC

>8b99225a-1324-4766-8216-b537e5c6f3d6 → circ-BOK-13 in PC-3 (priming from Exon 5)

GCAAGACCCTGGCAACCTACCGGCTGCGGAGACGCGGCAGGATGGACTGATGTCCTCAGGTGTGTGGTCAGCACAGACC
CTGGCCTCCGCGCTCCCACTGGCTGGTGGCTGCCTCTGCAGCTCGGCGCTACCGAGCTGCATTCTTCCGTGCTGCTGC
AGAGAGATGAGCTGGAGATGATCCGGCCAGCGTCTACCGCAACGTGGCGCGTCAGCTGCACATCTCCCTGCAGTCCTG
AGCCTGTGGTGACCGATGCGTTCCTGGCCGTGGCTGGCCACATCTTCTCTGCAGGCATCACGTGGGGCAAGGTGGTGTG
CCTGCATGC

>2d9ee028-290f-4f2e-a0b0-85034fe52be8 → circ-BOK-13 in OVCAR-3 (priming from Exon 5)

GCAAGACCCTGGCAACCTGGCTGCGGAGACGCGGCGGATGGACTGATGTCCTCAAGTGTGTGGTCAGCACAGACCCTGGC
CTCCGCTCCCGCTGGCTGTGGCTGCACTCTGCAGCTGTGACCGCTTCTGAAGGCTACCTTCTTGTGCTGCTGCCAGAG
AGATGAGCTGGAGATGATCCGGCCAGCGTCTACCGCAACGTGGCGTCAGCTGCACATCTCCCTGCAGTCTGAGCCTGT
GGTGACCGATGCGTTCCTGACCGTGGCTGGCCACATCTTCTCTGCAGGCATCACGTGGAGCAAGGTGGTGTCCCTGTATG
C

>e3b87b06-ed07-484b-9e12-18e24f2635db → circ-BOK-14 in OVCAR-3 (priming from Exon 4)

TGGCTGGCCACATCTTCTCCTGCAGGCATCACGTGGGGCAAGGTGGTGTCTGGCAATACGGTGGCCGCGGGGCTGGCC
GTGGACTGTGTGAGGCAGGCCAACCTGCCATAGTCCACGCCCTCGTGGACTGCCTGGGGGATTCTGTGCGCGAGACCCGC
AGCAGCCTGGCTGCGGTGTGCGCGGTGCTGCTGCGCCTGGGCGATGAGCTGGAGATGATCCGGCCAGCGTCTACCGCA
ACGTGGC

>c4d99b17-1141-4a39-8bf3-8b1df1b2f971 → circ-BOK-14 in OVCAR-3 (priming from Exon 5)

GCAAGACCCTGGCGGCCTGGCTGCGGTGTGCCCCGTGCTGCTGCGCCTGGGCGATGAGCTGGAGATGATCCAGCCCGGC
TCTACCTGACATGGCGCGTCAGCTGCACATCTCCCTGCAGTCTGAGCCTGTGGTGACCGATGCGTTCCTGGCCGTGGCT
GGCCACATCTTCTCTGCAGGCATCACGTGGGGCAAGGTGGTGTCCCTGTATGC

>369a3a97-5652-4b27-a437-4730d2d51642 → circ-BOK-15 in MDAH-2774 (priming from Exon 6)

GAGATGAGCTGCCACCTGGCAGTGGCCGCGAGCCTGGCCCTCTGGGCCCAACGCAGGAGGCCCTCAGCACAGAAACCCC
AAGACTTCAAGTCCACCTCCTGCTGTCTTCTCACATGGAGTCTGGCATGGGGCTGGGCACTGTGTGCCAGTGGGCGA
CGACACTTTGAGCAACGCCGAGACCACAGGTCCAGGCTGCAGGGAAAGCCTTCATGCTGTTAGCAGTGAAGGGAATAAG
AGAATTGGACGTTCACTTCACTTCCAGAAGGAACCTTCAGAGTCCAGGAGTCAAAGTAGGCTTCCAGAGGAAACGCAGTC
CCTGCTGTTGTTCCAGGCAGAGTCTGAATGAAGCTGGGTTTGCCCCTTCTGGTAGCCAGGCTCAAGGCCCCACAGGA
GGATGGCTTGACATACCTGTAGCCCCCTGGGGGGCAGCAGGCAGGTGGCCGAGGGAGCTGGCACCCCTGGTCTGGATGTC
TGGAGCCCCAGCGAGGGCCATGAAGGCCTCTCTCCTGCTCGGCAGGGGCCCTCACGGCCGGCCTGCCTGGCTGCCATCT
GTCCACACCTCCCGTGCCTCTGGCCCTTCACTGTCTAGGAATGTGCGGCATGGTCTGGTCTTGTGCTGGAGCCTTCAG
TCCAGGCCACAGACCTCCTTCCCGAACAGTCTCCTGCATTCCCTTCATGCAATTTTGCTGATATTCTGGTGCACAGTGC
TAGGGAGCCTGGCAGTGTGGGGGCCCTTGGCGGTGCTGGCTCTGCTTCTAACGGTCTCCCTCTTCCCTCCCAGACT
GATGTCCTCAAGTGTGTGGTCAGC

>b74408fb-e4bb-4b0f-8b7c-62e1fa9eb36f → circ-BOK-16 in ES-2 (priming from Exon 4)

TGGCTGGCCACATCTTCTCTGCAGGTATGCAGCCCTGCCCGTCCCATGGGACCTCAGGGAGGGATCCGGGGTCTGTGGCTCAGGCTCACAGGACCCACGAGCTGGCCCCAAGCCAGTCGTGTCCAGGAAGCTGGGACGTGGGCTGCCTCTCACCTGCTCTTGTGACCACACAGGCGATGAGCTGGAGATGATCCGGCCACAGGTCTACCGCAACGTGGC

>42b8ab7c-c9e5-4683-a083-82c95781e135 → circ-BOK-17 in DU 145 (priming from Exon 5)

GCAAGACCCTGGCAACCTGGCTGCGGAGACGCGGTGCTGCTGCGCCTGGATTCTTGCTGTTACTGGCCGAGATCCCGCCCGCTGCCCTCTGGATTCCAGGCCTCCGAGGCCCCCATTTGGAACTGCGCCACCGGGCTGGGTAGCCAAAACCTCAGTATTCTGTTGGTGCTGTGAGGACATCTGGGGGTGCTCGGTTCTGGGGTCACACACGGTCCACTGGCTGCCCCACCGTCTCCAAGGCGATGAGCTGGAGATGATCCGGCCCAGCGTCTACCGCAACGTGGCGCGTCAGCTGCACATCTCCCTGCAGTCTGAGCCTGTGGTGACCGATGCGTTCCCTGGCCGTGGCTGTACATCTTCTCTGCAGGCATCACGTGGGGCAAGGTGGTGTCCCTGTATGC

>3536c624-2557-4192-8006-3894e7532c42 (shown as reverse complement) → circ-BOK-18 in PC-3 (priming from Exon 5)

GCAAGACCCTGGCAACCTGGCTGCGGAGACGCGGCGGATGGACTGATGTCCTCAAGTGTGTGGTCAGCATGGCTGGCCATCTTCTCTGCAGGCATCACGTGGGGCAAGGTGGTGTCCCTGTATGC

>0e35b3ea-d741-4412-a035-dcdfbca3d251 (shown as reverse complement) → circ-BOK-19 in MDAH-2774 (priming from Exon 5)

GCAAGACCCTGGCAACCTGGCTGGGTGGAGACGCGGCGGATGGACTGATGTCCTCAAGTGTGTGGTCAGTACAGACCCTGGCCTCCGCTCCCACTGGCTGGTGGCTGCACTGCAGCTTCGGCCGTTTCTGAAGGCTGCCTTCTTCGTGCTGCTGCCAGAGAGAAGGATGCCACCTGGCAGTGGCCGCAGCCTTCGTCTCTGGGCCAACGCAGGAGGCCCTCAGCACCCGAACACATCTTCCTCCTCCCCACCCGAGCCTGGAGCACTCTAACCCTCGAATCCCCCTAAGCCCCGTTCCTCCGCAGACCCAGGCCCTCCGGAAGGGGCATCACGTGGAGCAAGGTGGTGTCCCTGTATGC

>8d5a049f-eafe-4357-9e0b-b02717755a1a (shown as reverse complement) → circ-BOK-19 in MDAH-2774 (priming from Exon 6)

GAGATGAGCTGCCACCTGGCAGTGGCCGCAGCCCGGCCCTCTGGGCCAACGCGGGAGGCCCTCAGCACCCGAACACATCTTCCTCCTCCCCACCCGAGCCTGAGCACTCTAACCCTCGGAGACCCCTAAGCCCCGTTCCTCCGCAGACCCAGGCCCTCCGAAGGGGCATCACGGGAGGGGCAGGTGTCCCTGTATGCGGTGGCCGCGGGGCTGGCCGTGGACTGTGAGGCAGGCCAGCCTGCCATGGTCCACGCCCTCGTGGACTGGCTCGGGAGTTCCAGGCAAGACCCCGCAACCTGGCTGCGGGAGACGCGGCGGATGGACTGATGTCCTCAAGTGTGTGGTCAGC

>ce685726-dd19-4da4-b50b-387c1567c017 → circ-BOK-20 in Ishikawa (priming from Exon 5)

GCAAGACCCTGGCAACCTGGCTGCGGAGACGCGGCGGATGGACTGATGTCCTCAAGTGTGTGGTCAGCACAGACCCTGCCCTCCGCTCCCACTGGCTGGTGGCTGCACTCTGCAGGCATCACGTGGGGCAAGGTGGTGTCCCTGTATGC

>ba319470-8dd1-4a22-a7d3-ce13d4538656 → circ-BOK-20 in OVCAR-3 (priming from Exon 5)

GCAAGACCCTGGCAACCTGGCTGCGGAGACGCGGCGGATGGACTGATGTCCTCAAGTGTGTGGTCAGCACAGACCCTGCCCTCCGCTCCCACTGGCTGGTGGCTGCACTCTGCAGGCATCACGTGGGGCAAGGTGGTGTCCCTGTATGC

>392a6918-65c1-4f0a-a355-5201b5b51b89 → circ-BOK-21 in LNCaP (priming from Exon 6)

GAGATGAGCTGCCACCTGGCAGTGTACAACCTGGCCTCTGGGCCAGCGCAGAGGCCCTCAGCACCCGAACACATCTTCCTCCTCCACCCGAGCCTGGAGCACTCTAACCCTCGGAGACGCGGCGGATGGACTGATGTCCTCAAGGAGTGTGTGGTCAGC

>0039de89-8f13-4469-9a87-f5fc65cbf6c5 → circ-BOK-21 in MDAH-2774 (priming from Exon 6)
GAGATGAGCTGCCCACCTGGCAGTGGCCGCAGCCTGGCCCTCTGGGCCCCAACGCAGGGAGGCCCTCAGCACCGAACAC
ATCTTCCTCCCTCCCCACCCGAGCCTGGGTACTCTAACCTCGGAGACGCGGCGGATGGACTGATGTCCTCAAGTGTGT
GGTCAGC

>24c16eab-bec6-4c80-be36-4b6f026c04a5 → circ-BOK-22 in PC-3 (priming from Exon 4)
TGGCTGGCCACATCTTCTCTTGCAGGCATCACGTGGGAGCGGGTGCCAGGCTACTGTATGCGGTGGCCGCGGGGCTGGC
CGTGGACTGTGTGAGGCAGGCCAGCCTGCCATGGTCACGCCCTCGTGGACTGCCTGGCTGAGGAGGTGTGCGCGGTGCT
GCTGCGCCTGGGCGATGAGCTGGAGATGATCCGGCCAGCGTCTACCGCAACGTGGC

>693b2039-411d-4723-bec3-0209ed9a6b04 → circ-BOK-23 in PC-3 (priming from Exon 6)
GAGATGAGCTGCCCACCTGGCAGTGGCCGCAGCCTGGCCCTCTGGGCCCCAACGCAGGGAAGGCCCTCAGCGCCCGAACT
CCCCAGTCCACTTTTCGTGGACTGCCTGGGGGAGTTCTCTTGCAAGACCCTGGCAACCTGGCTGCGGAACGCGGCGGAT
GGACTGATGTCCTCAGATGTGTGGTCAGC