

国家水生生物种质资源库国家斑马鱼资源中心
China Zebrafish Resource Center (CZRC)
National Aquatic Biological Resource Center (NABRC)

LOCUS CZP59\pCS2+z_tdrd7a 7342 bp DNA circular 11-DEC-2023
SOURCE

ORGANISM

COMMENT This file is created by Vector NTI
http://www.invitrogen.com/
COMMENT ORIGDB|GenBank
COMMENT VNTDATE|-14054445|
COMMENT VNTDBDATE|-15222121|
COMMENT LSOWNER|
COMMENT VNTNAME|CZP59 pCS2+z_tdrd7a|
COMMENT VNTAUTHORNAME|Xiaosi Wang|
COMMENT VNTAUTHOREML|wangxiaosi90@outlook.com|
COMMENT VNTAUTHORNAME|Wei Changyong|
COMMENT VNTAUTHOREML|changyongwei@mail.google.com|

FEATURES Location/Qualifiers
CDS 6357..7214
/vntifkey="4"
/label=ampR
promoter 530..1516
/vntifkey="29"
/label=CMV\IE94\enhancer/promoter
/note="Unknown feature type:frag simian CMV IE94
enhancer/promoter"
rep_origin 1..461
/vntifkey="33"
/label=F1\Ori
/note="Unknown feature type:frag f1 ori"
primer_bind complement(5189..5204)
/vntifkey="28"
/label=M13-
/note="Unknown feature type:frag M13 reverse primer binding
site"
promoter complement(5156..5172)
/vntifkey="30"
/label=T3\promoter
/note="Unknown feature type:frag T3 promoter (reverse
orientation)"
5' UTR 1580..1594
/vntifkey="52"
/label=B-globin\5'\mRNA\sequence
/note="Unknown feature type:frag B-globin 5' mRNA sequence"





```

promoter      1551..1567
               /vntifkey="30"
               /label=SP6\promoter
               /note="Unknown feature type:frag SP6 promoter"
mRNA          1517..1517
               /vntifkey="54"
               /label=cap\site\for\sCMV\IE94\promoter
               /note="basel = cap site for sCMV IE94 promoter"
polyA_signal  4907..5102
               /vntifkey="25"
               /label=SV40\polyA
promoter      complement(4884..4902)
               /vntifkey="30"
               /label=T7\promoter
misc_feature  1608..4847
               /vntifkey="21"
               /label=z_tdrd7a

BASE COUNT   1890 a      1816 c      1797 g      1839 t
ORIGIN
1  ctaaattgta agcgttaata ttttgtaa attcgcgta aattttgtt aaatcagctc
61  attttttaac caataggccg aaatcggcaa aatcccttat aatcaaaag aatagaccga
121 gatagggttg agtgttgttc cagtttgaa caagagtcca ctattaaaga acgtggactc
181 caacgtcaaa gggcgaaaaa ccgtctatca gggcgatggc cactacgtg aaccatcacc
241 ctaatcaagt tttttggggt cgagggtgcc taaagcacta aatcggaacc cttaaaggag
301 cccccgatt agagcttgac ggggaaagcc ggcgaacgtg gcgagaaagg aagggaaaga
361 agcgaaagga gcgggcgcta gggcgctggc aagtgtagcg gtcacgtgc gcgtaaccac
421 cacaccgcc gcgcttaatg cgccgctaca gggcgctcc cattgccat tcaggctgoc
481 caactgttgg gaaggcgat cggtgcgggc ctcttcgcta ttacgccagt cgacatagc
541 caattcaata tggcgtatat ggactcatgc caattcaata tggtgatct ggacctgtgc
601 caattcaata tggcgtatat ggactcgtgc caattcaata tggtgatct ggacccagc
661 caattcaata tggcggactt ggcacatgc caattcaata tggcggactt ggcactgtgc
721 caactgggga ggggtctact tggcacggtg ccaagttga ggaggggtct tggccctgtg
781 ccaagtccgc catattgaat tggcatggtg ccaataatgg cggccatatt ggctatatgc
841 caggatcaat atataggcaa tatccaatat ggcctatgc caatatggct attggccagg
901 ttcaatacta tgtattggcc ctatgccata tagtattcca tatatgggtt ttctattga
961 cgtagatagc cctcccatt ggcgggtccc atataccata tatggggctt cctaataccg
1021 cccatagcca ctccccatt gacgtcaatg gtctctatat atggtctttc ctattgacgt
1081 catatgggag gtctattga cgtatatggc gcctcccaca ttgacgtcaa ttacggtaaa
1141 tggccccctt ggctcaatgc ccattgacgt caataggacc accaccatt gacgtcaatg
1201 ggatggctca ttgccattc atatecgttc tcacgcccc tattgacgtc aatgacggta
1261 aatgccccac ttggcagtac atcaatatct attaatagta acttggcaag tacattacta

```

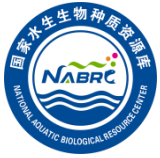




国家水生生物种质资源库国家斑马鱼资源中心
China Zebrafish Resource Center (CZRC)
National Aquatic Biological Resource Center (NABRC)

1321 ttggaaggac gccagggtac attggcagta ctcccattga cgtcaatggc ggtaaattggc
1381 ccgcgatggc tgccaagtac atccccattg acgtcaatgg ggaggggcaa tgacgcaaat
1441 gggcgttcca ttgacgtaaa tgggcggtag gcgtgcctaa tgggaggtct atataagcaa
1501 tgctcgttta gggaaccgcc attctgcctg gggacgtcgg agcaagcttg atttagtgta
1561 cactatagaa tacaagctac ttgttctttt tgcaggatcc catcgatatg agtgacgtgg
1621 agttgggtta gaagatgctg cgagctgttc ttcagagcag taagcacggt gtggccatgg
1681 cccgcctgca gggagattac cgggctctga caggagagat gattcccttc cggaagttg
1741 gacatgacac tcttgagagt tttctgcgca gcattcccgg cgttgtcggc ctcgaacgct
1801 ccattgctgg agaggtgatg tgttttgctg gcgtgtgtga ggagacagca cacatcgcac
1861 agctggctgc ccggcagaag aatgtgaaga agaccggctg ctctaaatta ttaaacttcc
1921 aatgagaac gagaacttcc catctatfff cgcataacgt caaacctcgc ttgtctctga
1981 ggcaaccgag caacatgact catcccggtc gaggctctgt gacgagtttt tactctaccc
2041 agcgggaagct ttacagtacc gacctgccct cctccagagc tccagcttgg cagatgaaca
2101 ggaaatcacc agtgcctgag aagacttcag ttgtaccag caaaatcaat acaaatataa
2161 agactccact caaaaagacc agtgggacac cagcacagca gaagcctgtg aaccgagcag
2221 atgttgagtt ggttcagggt cgaatcaaac agcttttgca gaagtactcc agtggagtct
2281 ggctgtctaa aatccctcag ctctacaaga gcattgttca ggaagagctt cacataatc
2341 aggaagtaga gaagtggaca cacatttgca ctgttgagaa gccaggcagc aacaatatag
2401 tggaccgtct ggtgtatcct gtcttggaac cagtccaaa agcaagccct gtgccagtta
2461 aatcacatg caagcagtct cctaacactg ccttgtaaa acagccaaca cttactcaga
2521 aaactactcg cactttcaga actcttgcta ttaacatccc ccagtcaacc cccaaacccc
2581 agacaccctt gagtccaaca tcacctact ccacatgat ggattttact ctctctgaaa
2641 caccctaac tcagtcctc tcacctatca cccctccctc cactccacca gctcaccage
2701 ctctgactac agagctcaag cagaagttgc ggcagctgct caataaatac agccagggcc
2761 tgtgggctca tggacttctc cagcttttcc aggaggcatt tggctgtgca tttccacaat
2821 atgtcttggg gatctgtct ctgttggcag atacatgtat ggttgaatac ccgatgccag
2881 acaatcgaag gagagccata ctctacacac tgccatgcca ggtgcagacg cagccccgtt
2941 ctgcccacc accattggtc ctacctgca ccagcaacc gcattttct cactgatta
3001 tccaaccgc agactttcac tcggttttg tgatcgagat caacagcacc aacaacgttg
3061 tagtcagggt tgcgggggaa ggctactcta aatctcttga ggtgatggaa gaggagatgc
3121 aaaacttcta taacaatatt ggagcaggac tttgtcttct ttcacccaaa atttgacaac
3181 tcgtggcagt agctagtagc gatggtgcta tgcctgagagc tcaagtcac cagctctcag
3241 aggacaaagt taaggtttac tttttgac acggcttctt tgatctggtc agcaggaaga
3301 cagttttcca gctgagggat cagttcatga ctcttccctt ccaggcaacc acatgtcagc
3361 ttgcaggtct ggaaccattt agcactgatc cagttgttct gaagactctg cagtcattag
3421 ctgtcggctg atcgtgctg gctgagattg tggagcgaga agatacgcca cttgttgtgc
3481 tgtatgacac ttcagaaaac gatgatgtca atgtgaccgc tatgtgcctg aaggccctgc
3541 aggataagtc catggagaat cctctacagg tgaacagtgt atatacaaac gtgtgcgtca
3601 caaacgtgtg ctctgatggc agtgtttact gtcagttgcc ttctcgaggc caggccaaac
3661 tcaaagacat catggacaag attgaggcac atttcatctc tcagttaaca tgggagctgt
3721 tggtgtccag accattctgc gggaaagtgt gtctagccaa atacaaggc aatgggcaa

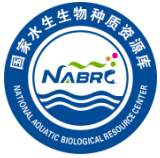




国家水生生物种质资源库国家斑马鱼资源中心
China Zebrafish Resource Center (CZRC)
National Aquatic Biological Resource Center (NABRC)

3781 gagcagagat cattaacctt catggcagtc acgtgtaga catcttgttt ttggatctgg
3841 ggcttctctg ttctctggag gttagtgagc tcagagagat cccgccgac ttcctcaaag
3901 agctcatcac cataccacct cagcgtataa agtgtctcct ggaggatctg aatgtggaca
3961 gggctgtttg gcctcctgaa gctgtcctgt ggttgagaga gactgtgcac aacaaagctc
4021 ccagttgcat gaagatagtg aagcttgatg agaccaggac tgtgcacatt tacctcttct
4081 gtggcaatga ggctcaggac attcatgaca gtgtaaaccg ccagctcgcc tcatgtcctt
4141 tctggaagca agacgtctac gccacaaga taaacaaggc ttctgaactg ttcttacctg
4201 atgcaggaga accttccggt ccatctcctg ctccatctaa tgcctcaca ctgccccctc
4261 agttgaactt accactgggt gggcagaata tggatgtgtt tgtgtctgtc gcatgccacc
4321 ccggacactt tgtgctgcaa ccatggcagg atctgtacaa gctggtggtg ctgatgggag
4381 agatggttct gttttacaac aaacaggaag tcaccccagt cgatatccag aagaataacg
4441 tctatgctgc caagattgac aacaactggc atcgtgtttt ggttaagggg ctctgacca
4501 atggcttggg gtctgtgtat gaactggatt atgggaagta cgaattgatc aactataccc
4561 agctccagcc gctcatcgag gatttcaggc agctgccgtt tcagggcatt tctgtctcagc
4621 tggctgatgt caagaaagag gtctgggtgtg aggaagcatc catggtgttt cgaaacatg
4681 tggagaaaaa gcctctgggt gccagatcg agtctgttga ggagggcgag tggccctggg
4741 agcgcaaaat ctcggtctac ctagtggaca ccacacagga gaacaaggac atctggatcc
4801 acaacattat gaaggagttt ttgatgaga tcagcagaga tgcttgaatc gattcgaatt
4861 caaggcctct cgagcctcta gaccctatag tgagtcgtat tacgtagatc cagacatgat
4921 aagatacatt gatgagtttg gacaaaccac aactagaatg cagtgaaaaa aatgctttat
4981 ttgtgaaatt tgtgatgcta ttgctttatt tgaaccatt ataagctgca ataaacaagt
5041 taacaacaac aattgcattc attttatgtt tcaggttcag ggggagggtg gggaggtttt
5101 ttaattcgcg gccgcggcgc caatgcattg ggcccggtag ccagcttttg ttcccttag
5161 tgagggttaa ttgcgcgctt ggcgtaatca tggatcatagc tgtttcctgt gtgaaattgt
5221 tatccgctca caattccaca caacatacga gccggaagca taaagtgtaa agcctggggt
5281 gcctaatgag tgagctaact cacattaatt gcgttgcgct cactgcccgc tttccagtcg
5341 ggaaacctgt cgtgccagct gcattaatga atcggccaac gcgcggggag aggcggttg
5401 cgtattgggc gctcttccgc ttccctcctc actgactcgc tgcgctcggg cgttcggctg
5461 cggcgagcgg tatcagctca ctcaaaggcg gtaatacggg tatccacaga atcaggggat
5521 aacgcaggaa agaacatgtg agcaaaaggc cagcaaaagg ccaggaaccg taaaaaggcc
5581 gcgttgctgg cgtttttcca taggctccgc cccctgacg agcatcaca aatcgacgc
5641 tcaagtcaga ggtggcgaaa cccgacagga ctataaagat accaggcgtt tccccctgga
5701 agctccctcg tgcgctctcc tgttccgacc ctgccgctta ccggatacct gtcgccttt
5761 ctcccttcgg gaagcgtggc gctttctcat agctcacgct gtaggtatct cagttcgggt
5821 taggtcgttc gctccaagct gggctgtgtg cacgaacccc ccgttcagcc cgaccgtgc
5881 gccttatccg gtaactatcg tcttgagtc aaccggtaa gacacgactt atcgccactg
5941 gcagcagcca ctggtaacag gattagcaga gcgaggtatg taggcggtgc tacagagttc
6001 ttgaagtggg ggccctaacta cggtacact agaaggacag tatttggtat ctgcgctctg
6061 ctgaagccag ttaccttcgg aaaaagagtt gtagctctt gatccgcaa acaaccacc
6121 gctggtagcg gtggtttttt tgtttgcaag cagcagatta cgcgcagaaa aaaaggatct
6181 caagaagatc ctttgatctt ttctacgggg tctgacgctc agtggaacga aaactcagct





6241 taaggattt tggatcatgag attatcaaaa aggatcttca cctagatcct tttaaattaa
6301 aatgaagtt ttaaatcaat ctaaagtata tatgagtaaa cttggtctga cagttaccaa
6361 tgcttaatca gtgaggcacc tatctcagcg atctgtctat ttcgttcac ctagttgcc
6421 tgactccccg tcgtgtgat aactacgata cgggagggct taccatctgg cccagtgct
6481 gcaatgatac cgcgagacc acgctcaccg gctccagatt tatcagcaat aaaccagcca
6541 gccggaaggg ccgagcgcag aagtggctct gcaactttat ccgctccat ccagtctatt
6601 aattgttgcc gggaagctag agtaagtagt tcgccagtta atagtttgcg caacgttggt
6661 gccattgcta caggcatcgt ggtgtcacgc tcgtcgtttg gtatggcttc attcagctcc
6721 ggttcccaac gatcaaggcg agttacatga tccccatgt tgtcaaaaa agcggttagc
6781 tccttcggtc ctccgatcgt tgtcagaagt aagtggccg cagtgttacc actcatggtt
6841 atggcagcac tgcataatc tcttactgtc atgccatccg taagatgctt ttctgtgact
6901 ggtgagtact caaccaagtc attctgagaa tagtgtatgc ggcgaccgag ttgctcttgc
6961 ccggcgtcaa tacgggataa taccgcgcca catagcagaa ctttaaaagt gctcatcatt
7021 ggaaaacgtt cttcggggcg aaaactctca aggatcttac cgtgttgag atccagttcg
7081 atgtaacca ctcgtgcacc caactgatct tcagcatctt ttactttcac cagcgtttct
7141 gggtagcaaa aaacaggaag gcaaaatgcc gcaaaaaagg gaataagggc gacacggaaa
7201 tgttgaatac tcatactctt ctttttcaa tattattgaa gcatttatca gggttattgt
7261 ctcatgagcg gatacatatt tgaatgtatt tagaaaaata acaaatagg ggttccgcgc
7321 acatttccc gaaaagtgcc ac

//

