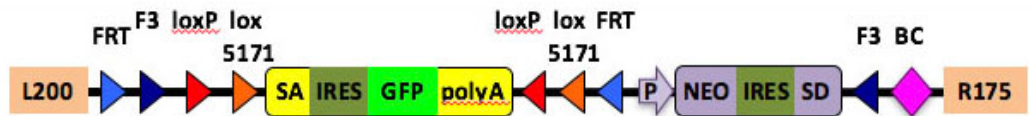


Tol2-pA

based on and Mayasari NI, Mukougawa K, Shigeoka T, Kawakami K, Kawaichi M, Ishida Y, Nucleic Acids Res. 2012 Jul;40(13)e:97
 PLS note: Tol2pA clones are GFP positive



```

1  cagaggtgta aagtacttga gtaattttac ttgattactg tacttaagta ttatTTTTgG ggatttttac tttacttgag tacaattaa aatcaact
   >>.....L200.....>
101 tttactttta ctttaattaca tttttttaga aaaaaaagta ctttttactc cttacaattt tatttacagt caaaaagtac ttatTTTTgG gagatcactt
   >.....L200.....>>
201 gggcccggct cgatctccgc ggccgcatga tcgattgccg aagttcctat tctctagaaa gtataggaac ttcggcatcg gcatcaattc atcatcggat
   >>.....frt.....>>

      < Tol2_INT_rev
      GC GTTATAGTTA GGTAACGGGC C
301 atttgcacgc caatatcaat ccattgcccg gatggccgga tgatcgcgatg cggatgccat gcgatggatc ggaaatcgca tccattccgg ccgaagttcc
   >>.F3..>
401 tattcttcaa atagtatagg aacttcggcg aattcgggaat cattggcaat gccatccatc ggatttgatg ccatgcaatt cgggataact tcgtatagca
   >.....F3.....>> >>....loxP.....>
501 tacattatac gaagttatcc gaaagctgtc cccaatcctc ccaccacgac ccgccgcact gcagataccg caccgtattg gcaagtagcc cgtaaacgcg
   >.....loxP.....>>
601 gcgaatcgca gccagcatag ccagggtccag ccgctcgccg gggcgctggc gtttggccag gcggtcgcgat tgtctgtcct ccggaagggc ccgataact
   >>.....15171 >>...>
701 tcgtatagta cacattatac gaagttatcc gggatctgct gtatctctaa gatggctggc acgtaaagag ggtctcaata aatagcctt gaattaatga
   >.....15171.....>> >>.....SA.....>
801 aaacagtggg ttctgaatca tggcctccaa agagcatttg ctttttcccc tctcaccctt ctgaaggtgc ccaggctgcc ctggcaggat gcctctttct
   >.....SA.....>
901 ctgtgggggtg gcattctctg ctctctctct aatactcttt ctttttcttc cctcctctcc cccaactgca ggatgccttt gtggaactgt aaggccccag
   >.....SA.....>
1001 catgcccgcct ctgtttgatt tctcctggct gtctctgaag actctgctca gtttggccct ggtgggagct tgcatcacc tgggtgccta tctgggccac
   >.....SA.....>
1101 aagtgaagtc aacatgcctg ccccaaacaa atatgcaaaa ggttcaactaa agcagtagaa ataatatgca tcccctctcc ctccccccc cctaacgta
   >.....SA.....>> >>.....IRES.....>
    
```

1201 ctggccgaag ccgcttgaa taaggccggt gtgcgtttgt ctatatgtta tttccacca tattgccgtc ttttggaat gtgagggccc gaaacctgg
>.....IRES.....>

1301 ccctgtcttc ttgacgagca ttcctagggg tctttcccct ctgcgcaaag gaatgcaagg tctgttgaat gtcgtgaagg aagcagttcc tctggaagct
>.....IRES.....>

1401 tcttgaagac aaacaacgtc tgtagcgacc ctttgcagge agcggaacce cccacctggc gacaggtgcc tctgcggcca aaagccacgt gtataagata
>.....IRES.....>

1501 cacctgcaaa ggcggcacia cccagtgcc acgttgtgag ttggatagtt gtggaagag tcaaatggct ctctcaagc gtattcaaca aggggctgaa
>.....IRES.....>

1601 ggatgccag aaggtacccc attgtatggg atctgatctg gggcctcggg gcacatgctt tacatgtgtt tagtcgaggt taaaaaacg tctaggcccc
>.....IRES.....>

1701 ccgaaccacg gggacgtggt tttcctttga aaaacacgat gataatatgg ccacaacct ggtgagcaag ggcgaggagc tgttcaccgg ggtggtgcc
>.....IRES.....>>
>>.....EGFP.....>

1801 atcctggtcg agctggacgg cgacgtaaac ggccacaagt tcagcgtgtc cggcgagggc gagggcgatg ccacctacgg caagctgacc ctgaagttca
>.....EGFP.....>

1901 tctgcaccac cggcaagctg cccgtgccct ggcccaccct cgtgaccacc ctgacctagc gcgtgcagtg cttcagccgc taccgacc acatgaagca
>.....EGFP.....>

2001 gcacgacttc ttcaagtccg ccatgcccga aggctacgtc caggagcgca ccatcttctt caaggacgac ggcaactaca agaccgcgc cgaggtgaag
>.....EGFP.....>

2101 ttcgagggcg acaccctggt gaaccgcacg gagctgaagg gcacgactt caaggaggac ggcaacatcc tggggcacia gctggagtac aactacaaca
>.....EGFP.....>

2201 gccacaacgt ctatatcatg gccgacaagc agaagaacgg catcaaggtg aacttcaaga tccgccacia catcgaggac ggcagcgtgc agctcgccga
>.....EGFP.....>

2301 ccaactaccag cagaacaccc ccatcggcga cggccccgtg ctgctgcccg acaaccacta cctgagcacc cagtccgcc tgagcaaaga cccaacgag
>.....EGFP.....>

2401 aagcgcgatc acatggtcct gctggagttc gtgaccgccg ccgggatcac tctcggcatg gacgagctgt acaagtaaag cgccagcaca gtggtcgcgc
>.....EGFP.....>> pA >>

2501 ctgactgtg ctttctagtt gccagccatc tgttgtttgc ccctccccg tgccttctt gaccctggaa ggtgccactc ccaactgtcct ttctaataa
>.....pA.....>

2601 aatgaggaaa ttgcatcgca ttgtctgagt aggtgtcatt ctattctggg ggggtgggtg gggcaggaca gcaaggggga ggattgggaa gacaatagca
>.....pA.....>

2701 ggcattgctgg ggatgCGgtg ggctctatgg ctcttgagggc ggaaagctag actcgactgt gccttctagt tgccagccat ctgttgtttg cccctcccc
>.....pA.....>> >>.....pA.....>

2801 gtgccttctt tgaccctgga aggtgccact cccactgtcc tttcctaata aatgaggaa attgcatcgc attgtctgag taggtgtcat tctattctgg
>.....pA.....>

2901 ggggtgggggt ggggcaggac agcaaggggg aggattggga agacaatagc aggcattgctg gggatgCGgt gggctctatg gcttctgagg cggaaagctt
>.....pA.....>

3001 cagcgatggc ttctagctgc cgggtggca tccctgtgac ccctccccag tgcctcttct ggccctggaa gttgccactc cagtgccac cagccttgtc
>>> pA
>>.....pA.....>

3101 ctaataaaat taagttgcat cattttgtct gactaggtgt ctttctataa tattatgggg tggagggggg tggatggag caaggggcaa gttgggaaga
>.....pA.....>

3201 caacctgtag ggctgCGgg gtctattggg aaccaagctg gactgCGgtg gcacaatctt ggctcactgc aatctccgcc tctggggttc aagcattct
>.....pA.....>

3301 cctgcctcag ctttctagct tcagcgatgg ctctagctg cccgggtggc atccctgtga cccctcccc gtgcctcttc tggccctgga agttgccact
>.....pA.....>> >>.....pA.....>

3401 ccagtcccc caagccttgt ctaataaaa ttaagttgca tcattttgtc tgactaggtg tccttctata atattatggg gtggaggggg gtggatgga
>.....pA.....>

3501 gcaaggggca agttgggaag acaacctgta gggcctgCGg ggtctattgg gaaccaagct ggagtgCGgt ggcaaatct tggctcactg caatctccgc
>.....pA.....>

3601 ctctggggtt caagcattc tctgcctca gcctccccgag tcgagCGgt aacttcgtat aatgtatgct atacgaagt atccgcgcca ggtcgcagat
>.....pA.....>> <<.....loxP.....<<

3701 cgtcgggatg gagccggggg tggtgactg ggtctggacc atcccggagg taagttgag cagggcgctc cggcagccgg cgggCGgtg gtcgtaatcc

3801 aggataaaga cgtgcatgga acggaggcgt ttggccaaga cgtccaaggc ccacggataa ctctgtataa tgtgtactat acgaagttat ccgatcgata
<<.....l5171.....<<

3901 tccatcccaa atatgCGatg gatggatCGg atgccgaagt tcctatactt tctagagaat aggaacttCG gcattgCGgc cgcaaataga tccatccaat
<<.....frt.....<<

4001 gaagcttggg ctgaacatcg agcGCCagg ctccgtaaag ctactagagc acaggCGgtg cccaacgctc ctgggCGctc tccactaata acggctactt
>>.....RPB1 promoter.....>

4101 ccaattgatt ggacgcgcca tcttgCGtgc cttatgcata ttacagCGgtg aactgaatat tcatgaacga ggccCGtccc gtccctcctt ccttcccc
>.....RPB1 promoter.....>

4201 accccCGgaa cccgctccgg aggaccgaa gggccccgCC ttattaccg atgCGtagga caaacattt tcccgatggt tgtgggggga tactaatgag
>.....RPB1 promoter.....>

4301 agacttttagc tgaaaaatga gctgaactc cgaagctgag taaaaatggc ctaactttat cctccgttct gtaagtcctc ggtttgagtg cacgggaaac
>.....RPB1 promoter.....>

4401 ccgaaaggag gacgacagga ccaggaacat tctcctcctc ctgtcgcgctc agaaagaaca cccaaccagg gagccggagc cctagcgtca acaactccgc
>.....RPB1 promoter.....>

4501 cgcgcgcgct ccgtgtaggc cggtgcgggc ggccccgtag cgcaagggag ggcgggaaag gaaggggagg gacacaaggg cgaatctata aagggcgta
>.....RPB1 promoter.....>

4601 ctcagccagt tctcctcctca gaagcgccga gagcgcgacc gggacgggtg gagaagaagg tggctcccgg aagggggaga gacaaactgc cgtaacctc
>.....RPB1 promoter.....>

4701 gccgttcagg atccgtgcag ccaatatggg atcggccatt gaacaagatg gattgcacgc aggttctccg gccgcttggg tggagaggct attcggctat
>.....>> RPB1 promoter >>.....Neo.....>

4801 gactggggcac aacagacaat cggctgctct gatgccgccc tgttccggct gtcagcgcag gggcgcccgg ttctttttgt caagaccgac ctgtccggtg
>.....Neo.....>

4901 ccctgaatga actgcaggac gaggcagcgc ggctatcgtg gctggccacg acgggcgttc cttgcgcagc tgtgctcgac gttgtcactg aagcgggaag
>.....Neo.....>

5001 ggactggctg ctattgggag aagtgccggg gcaggatctc ctgtcatctc accttgctcc tgccgagaaa gtatccatca tggctgatgc aatgccggcg
>.....Neo.....>

5101 ctgcatacgc ttgatccggc tacctgccca ttcgaccacc aagcgaaca tcgcatcgag cgagcacgta ctcggatgga agccggctctt gtcgatcagg
>.....Neo.....>

5201 atgatctgga cgaagagcat caggggctcg cgccagccga actgttcgcc aggtcaagg cgcgcatgcc cgacggcgat gatctcgtcg tgacctatgg
>.....Neo.....>

5301 cgatgcctgc ttgccgaata tcatggtgga aatggcccgc ttttctggat tcatcgactg tggccggctg ggtgtggcgg accgctatca ggacatagcg
>.....Neo.....>

5401 ttggctaccc gtgatattgc tgaagagctt ggcggcgaat gggctgaccg cttcctcgtg ctttacggta tcgccgctcc cgattcgcag cgcacgcct
>.....Neo.....>

5501 tctatgcct tcttgacgag ttcttctgac cacgcgtccc ctctccctcc ccccccta acgttactgg ccgaagccgc ttggaataag gccgggtgac
>.....Neo.....>>>.....IRES.....>

5601 gtttgtctat atgttatttt ccacatatt gccgtctttt ggcaatgtga gggcccggaa acctggccct gtcttcttga cgagcattcc taggggtctt
>.....IRES.....>

5701 tcccctctcg ccaaaggaat gcaaggtctg ttgaatgtcg tgaaggaagc agttcctctg gaagcttctt gaagacaaac aacgtctgta gcgaccctt
>.....IRES.....>

5801 gcaggcagcg gaacccccca cctggcgaca ggtgcctctg cggccaaaag ccacgtgtat aagatacacc tgcaaaggcg gcacaacccc agtgccacgt
>.....IRES.....>

```

5901 tgtgagttgg atagttgtgg aaagagtcaa atggctctcc tcaagcgtat tcaacaaggg gctgaaggat gccagaagg tacccattg tatgggatct
>.....IRES.....>
6001 gatctggggc ctcggtgcac atgctttaca tgtgtttagt cgaggtaaa aaaacgtcta ggcccccgga accacgggga cgtggttttc cttgaaaaa
>.....IRES.....>
6101 cacgatgata atatgccac aaccctcgac gccatgtgc catgcacat ggttgtcgac gccatggcca atcgcacat ggattccatc cgatgcgaat
>.....IRES.....>>
6201 cgcacccatg gatgcgcaa tcggattcca tgcgatgcca tttccgatgc gggatccgaa attccagaca agtttgttgt tggatatgcc ctcgactaca
>>.....SD.....>
6301 acgagtactt caggaatttg caggtaagta atgctttttt ttttctcgct ctcatttttc aaaaaccac ataaaaattg aggaaagga agaattgttt
>.....SD.....>
6401 tctccttcca gcacctgta atttgaccg actgatgggt cccattagtc acataaagct gtagtcaagt acagacgtcg aattcgccga agttcctata
>.....SD.....>> <<...F3.....<
                                     barcodePCR-F >          NlaIII TaqI
                                     GGTGGA TCTGAGCTAC TCATCAACGG T----+----
6501 ctatttgaag aataggaact tcggcctcga gaccggttga tctgagctac tcatcaacgg tcatgtcga- ----- --BARCODE-- -----
<.....F3.....<<
                                     < barcodePCR-R
                                     TCGT CTCGGTCTTG GTCTTCCTTG AAC
                                     T2_INT_fwd >
                                     GAGCCAGAAC CAGAAGGAAC TTG
                                     DS >
                                     CTT CTCGTGTGCA GACTTGAGGT CAGTG          PacI          GAGCCAGAAC CAGAAGGAAC TTGAC
6601 -agatcggaa gagcacacgt ctgaactcca gtcacgggtca ccttaattaa acgatgagca gagccagaac cagaaggaac ttgaccatct ttcttgcttt
>>.R175..>
6701 tacttttact tccttaatac tcaagtacaa ttttaatgga gtactttttt acttttactc aagtaagatt ctagccagat acttttactt ttaattgagt
>.....R175.....>
6801 aaaattttcc ctaagtactt gtactttcac ttgagtaaaa tttttgagta ctttttacac ctctg
>.....R175.....>>

```

1	cagaggtgta	aagtacttga	gtaatTTTTac	ttgattactg	tactttaagta	ttatTTTTtg	ggatTTTTtac	tttacttgag	tacaattaa	aatcaatact
101	tttactTTTTa	cttaattaca	TTTTTTtaga	aaaaaaagta	ctTTTTactc	cttacaatTT	tattttacagt	caaaaagtac	ttatTTTTtg	gagatcactt
201	gggcccggct	cgatctccgc	ggccgcatga	tcgattgccg	aagttcctat	tctctagaaa	gtataggaac	ttcggcatcg	gcatcaattc	atcatcggat
301	atTTgcatcg	caatatcaat	ccattgcccg	gatggccgga	tgatcgatgg	cggatgccat	gcgatggatc	ggaaatcgca	tccattccgg	ccgaagttcc
401	tattcttcaa	atagtatagg	aacttcggcg	aattcgggaat	cattggcaat	gccatccatc	ggatTTgatg	ccatgcaatt	ccggataact	tcgtatagca
501	tacattatac	gaagttatcc	gaaagctgtc	cccaatcctc	ccaccacgac	ccgccgcact	gcagataccg	caccgtattg	gcaagtagcc	cgtaaacgcg
601	gcgaatcgca	gccagcatag	ccaggTccag	ccgctcgccg	gggcgctggc	gTTTggccag	gcggTcgatg	tgtctgtcct	ccggaagggc	ccggataact
701	tcgtatagta	cacattatac	gaagttatcc	gggatctgct	gtatctctaa	gatggctggc	acgtaaagag	ggTctcaata	aatatgcctt	gaattaatga
801	aaacagtggT	ttctgaatca	tggcctccaa	agagcattTg	cTTTTtcccc	tctcaccctt	ctgaaggtgc	ccaggctgcc	ctggcaggat	gcctctttct
901	ctgtggggTg	gcattctctg	ctctctctct	aatactcttt	ctTTTTcttc	cctcctctcc	cccactgca	ggatgccttt	gtggaactgt	aagcccag
1001	ctgcggcct	ctgTTtgatt	tctcctggct	gtctctgaag	actctgctca	gTTTggcct	ggTggagct	tgcatcacc	tgggtgccta	ttggggccac
1101	aagtgaagtc	aacatgcctg	ccccaaacaa	atatgcaaaa	ggtTcactaa	agcagtagaa	ataatatgca	tcccctctcc	ctccccccc	cctaacgtta
1201	ctggccgaag	ccgctTgga	taaggccggt	gtgctTTTgt	ctatatgtta	TTTTccacca	tattgccgtc	TTTTggcaat	gtgagggccc	ggaaacctgg
1301	ccctgtcttc	ttgacgagca	ttcctagggg	tctttcccct	ctcgccaaag	gaatgcaagg	tctgtTgaat	gtcgtgaagg	aagcagttcc	tctggaagct
1401	tcttgaagac	aaacaacgTc	tgtagcagcc	ctttgcaggc	agcggaaacc	cccacctggc	gacaggtgcc	tctgcggcca	aaagccacgt	gtataagata
1501	cacctgcaaa	ggcggcacaa	ccccagtgcc	acgtTgtgag	ttggatagtt	gtggaaagag	tcaaatggct	ctcctcaagc	gtattcaaca	aggggctgaa
1601	ggatgcccag	aaggtacccc	attgtatggg	atctgatctg	gggcctcggT	gcacatgctt	tacatgtgtt	tagtcgaggt	taaaaaaacg	tctaggcccc
1701	ccgaaccacg	gggacgtggT	tttcctttga	aaaacacgat	gataaatatg	ccacaaccat	ggTgagcaag	ggcgaggagc	tgttcaccgg	ggTggTgcc
1801	atcctggTcg	agctggacgg	cgacgTaaac	ggccacaagt	tcagcgtgtc	cggcgagggc	gagggcgatg	ccacctacgg	caagctgacc	ctgaagttca
1901	tctgcaccac	cggcaagctg	cccgtgccct	ggcccaccct	cgtgaccacc	ctgacctacg	gcgtgcagtg	cttcagccgc	taccccgacc	acatgaagca
2001	gcacgacttc	ttcaagtccg	ccatgcccga	aggctacgtc	caggagcgca	ccatcttctt	caaggacgac	ggcaactaca	agaccgcgc	cgaggtgaag
2101	ttcgagggcg	acaccctggT	gaaccgcacT	gagctgaagg	gcacTgactt	caaggaggac	ggcaacatcc	tggggcacia	gctggagtac	aactacaaca
2201	gccacaacgt	ctatatcatg	gccgacaagc	agaagaacgg	catcaaggtg	aactTcaaga	tccgccacia	catcgaggac	ggcagcgtgc	agctgcgccga
2301	ccactaccag	cagaacaccc	ccatcggcga	cggccccgTg	ctgctgccc	acaaccacta	cctgagcacc	cagtccgcc	tgagcaaga	ccccacgag
2401	aagcgcgacT	acatggtcct	gctggagTtc	gtgaccgcgc	ccgggatcac	tctcggcatg	gacgagctgt	acaagTaaag	cgccagcaca	gtggTcgagc
2501	ctcgactgtg	ctctctagtt	gccagccatc	tgtTgtTtgc	ccctccccgc	tgccttccct	gacctTgaa	ggTgccactc	ccactgtcct	ttcctaataa
2601	aatgaggaaa	ttgcatcgca	ttgtctgagT	aggTgtcatt	ctattctggg	gggtggggTg	gggcaggaca	gcaaggggga	ggattgggaa	gacaatagca
2701	ggcatgctgg	ggatgcggtg	ggctctatgg	cttctgaggc	ggaaagctag	actcgaactgt	gccttctagt	tgccagccat	ctgtTgtTtTg	cccccccc
2801	gtgccttccT	tgaccctgga	aggTgccact	cccactgtcc	tttcctaata	aaatgaggaa	attgcatcgc	attgtctgag	taggtgtcat	tctattctgg
2901	ggggTggggT	ggggcaggac	agcaaggggg	aggattggga	agacaatagc	aggcatgctg	gggatgcggt	gggctctatg	gcttctgagg	cggaaagctt
3001	cagcgatggc	ttctagctgc	ccgggtggca	tccctgtgac	ccctccccag	tgcctcttct	ggccctggaa	gTtgccactc	cagtgccac	cagcctTgtc
3101	ctaataaaat	taagTtgcac	cattttgtct	gactaggtgt	ccttctataa	tattatgggg	tggagggggg	tggTatggag	caaggggcaa	gTtgggaaga
3201	caacctgtag	ggcctgcggg	gtctattggg	aaccaagctg	gagTgcagtg	gcacaatctt	ggctcactgc	aatctccgcc	tcctgggttc	aagcgattct
3301	cctgcctcag	ccttctagct	tcagcgatgg	cttctagctg	ccgggtggc	atccctgtga	cccctcccca	gtgcctcttc	tggccctgga	agTtgcact
3401	ccagtgccca	ccagcctTgt	cctaataaaa	ttaagTtTca	tcattttgtc	tgactaggtg	tccttctata	atattatggg	gtggaggggg	gtggTatgga
3501	gcaaggggca	agTtgggaag	acaacctgta	gggcctgcgg	ggTctattTg	gaaccaagct	ggagTgcagt	ggcacaatct	tggctcactg	caatctccgc
3601	ctcctgggtt	caagcgaTtc	tcctgcctca	gcctcccag	tcgagcggat	aactTcgtat	aatgtatgct	atacgaagTt	atccgcgcca	ggTcgcagat
3701	ctcggTatg	gagccggggg	tggTgacgtg	ggTctggacc	atccccgagg	taagTtgcag	cagggcgctcc	cggcagccgg	cgggcgattg	gtcgtaatcc
3801	aggataaaga	cgtgcattgga	acgggagcgt	ttggccaaga	cgtccaaggc	ccacggataa	cttcgtataa	tgtgtactat	acgaagTtat	ccgatcgata
3901	tccatcccaa	atatgcgatg	gatggatcgg	atgccgaagT	tcctataact	tctagagaat	aggaacttcg	gcattgcggc	cgcaaataga	tccatccaat
4001	gaagctTggg	ctgaacatcg	agcgcagggg	ctccgTaaag	ctactagagc	acaggcggTg	ccccaacgTc	ctggggcctc	tccactaata	acggctactt
4101	ccaattgatt	ggacgcgcca	tcttgcctgc	cttatgcata	ttcagcggTg	aactgaatat	tcatgaacga	ggcccgtccc	gtcccctccc	ccttcccccc
4201	acccccggaa	cccgtctccg	aggaccggaa	gggccccgcc	ttcattaccg	atgcgtagga	caaaccattt	tcccgatgtg	tgtgggggga	tactaatgag
4301	agactTtagc	tgaaaaatga	gcctgaactc	cgaagctgag	taaaaaatggc	ctaactTtat	cctccgttct	gtaagTcctc	ggTttgagTg	cacgggaaac
4401	ccgaaaggag	gacgacagga	ccaggaacat	tctcctcctc	ctgtcgcgTc	agaaagaaca	cccaccaggg	gagccggagc	cctagcgtca	acaactccgc
4501	cgcgcgcgct	ccgtgtaggc	cggTgcgggg	ggccccgtag	cgcaagggag	ggcgggaaag	gaagggcgcg	gacacaaggg	cgaatctata	aagggcgTca
4601	ctcagccagT	tctctcctca	gaagcgccga	gagcgcgacc	gggacggTtTg	gagaagaagg	tggctccccg	aaggggggaga	gacaaactgc	cgtaacctct

4701 gccgttcagg atccgtgcag ccaatatggg atcggccatt gaacaagatg gattgcacgc aggttctccg gccgcttggg tggagaggct attcggctat
4801 gactgggcac aacagacaat cggctgctct gatgccgccg tgttccggct gtcagcgcag gggcgcccgg ttctttttgt caagaccgac ctgtccggtg
4901 ccctgaatga actgcaggac gaggcagcgc ggctatcgtg gctggccacg acgggcgttc cttgcgcagc tgtgctcgac gttgtcactg aagcgggaag
5001 ggactggctg ctattgggcg aagtgccggg gcaggatctc ctgtcatctc accttgctcc tgccgagaaa gtatccatca tggctgatgc aatgcggcgg
5101 ctgcatacgc ttgatccggc tacctgcccc ttcgaccacc aagcgaaaaca tcgcatcgag cgagcacgta ctcggatgga agccggctctt gtcgatcagg
5201 atgatctgga cgaagagcat caggggctcg cgccagccga actgttcgcc aggtcaagg cgcgcatgcc cgacggcgat gatctcgtcg tgacctatgg
5301 cgatgcctgc ttgccgaata tcatggtgga aaatggccgc ttttctggat tcatcgactg tggccggctg ggtgtggcgg accgctatca ggacatagcg
5401 ttggctaccc gtgatattgc tgaagagctt ggcggcgaat gggctgaccg ctctcctcgtg ctttacggta tcgccgctcc cgattcgcag cgcctcgcct
5501 tctatcgcct tcttgacgag ttcttctgac cacgcgtccc ctctccctcc ccccccccta acgttactgg ccgaagccgc ttggaataag gccgggtgtgc
5601 gtttgtctat atgttatfff ccaccatatt gccgtctfff ggcaatgtga gggcccggaa acctggccct gtcttcttga cgagcattcc taggggtctt
5701 tccccctcgc ccaaaggaat gcaaggtctg ttgaatgtcg tgaaggaagc agttcctctg gaagcttctt gaagacaaac aacgtctgta gcgacccttt
5801 gcaggcagcg gaacccccca cctggcgaca ggtgcctctg cggccaaaag ccacgtgtat aagatacacc tgcaaaggcg gcacaacccc agtgccacgt
5901 tgtgagttgg atagttgtgg aaagagtcaa atggctctcc tcaagcgtat tcaacaaggg gctgaaggat gcccagaagg taccctattg tatgggatct
6001 gatctggggc ctcggtgcac atgctttaca tgtgtttagt cgaggttaaa aaaacgtcta ggccccccga accacgggga cgtggttttc ctttgaaaa
6101 cacgatgata atatcgccac aaccctcgac gcccatgtgc catgcacat ggttgtcgac gccatggcca atcgcatcat ggattccatc cgatgcgaat
6201 cgcattccat gatgcgcaa tcggattcca tgcgatgcca tttccgatgc gggatccgaa attccagaca agtttgttgt tggatatgcc ctcgactaca
6301 acgagtactt caggaatffg caggtaagta atgctfffft ttttctcgtc ctcatfffft aaaaaccac ataaaaattg aggaaagga agaattgttt
6401 tctccttcca gcacctcgta atttgacctg actgatggtt cccattagtc acataaagct gtagtcaagt acagacgtcg aattcgccga agttcctata
6501 ctatffgaa aataggaact tcggcctcga gaccggttga tctgagctac tcatcaacgg tcatgtcgas wswswsws wswswsws wswswsws
6601 wagatcgaa gagcacacgt ctgaactcca gtcacggtca ctttaattaa acgatgagca gagccagaac cagaaggaac ttgacctctt ttcttgcttt
6701 tactfffft tccttaatac tcaagtacaa tfftaatgga gtactfffft actfffftctc aagtaagatt ctagccagat actfffftctt ttaattgagt
6801 aaaatfffft ctaagtactt gtactfftcac ttgagtaaaa tfffftgagta cttfffftacac ctctg