

ZYS3p^(-118 to +97)::cgLuc; Construct I in Figure 3A, 3B

```
TctagaGCAGTCGGGTCGTGTCGCCTCGATTCGACACGACTGGCTGTAGC < 50
GCCCCGCCCCGCATGGGGCATGCCCGGCGCCCATATAAAACGCGAGCGGAGT < 100
GCCGAACCCTGCATTCACACAGACCTTCTTCTCTCGCTTACCTTGTGAA < 150
GCACTGATAGCCGGGCATCCGCCTCTCCCTTCCCCTCGGGCTGCGCGCCT < 200
CTCCACCGAACACATCCCTCGctcgaGATGGGCGTGAAGGTGCTGTTTCGC < 250
CCTGATCTGCATCGCCGTCGCCGAGGCGAAGCCGACGGAGAACAACGAGG < 300
ACTTCAACATTGTGCGCCGTGGCGTCCAACTTTGCCACCACCGATCTGGAC < 350
GCCGACCGCGGCAAGCTGCCGGGCAAGAAGCTGCCCTGGAGGTCTCAA < 400
GGAAATGGAGGCGAACGCCCGGAAGGCCGGCTGCACCCGCGGCTGCCTAA < 450
TCTGCCTGTCCCACATCAAGTGCACGCCGAAGATGAAGAAGTTCATTCCC < 500
GGCCGGTGCCACACCTACGAGGGCGACAAGGAGTCCGCGCAGGGCGGCAT < 550
TGCCGAGGCGATCGTGGACATCCCCGAGATTCCGGGCTTCAAGGACCTGG < 600
AGCCGATGGAGCAGTTCATCGCCCAGGTGGACCTGTGCGTGGACTGCACG < 650
ACCGGCTGTCTGAAGGGCCTGGCCAATGTGCAGTGTTCGGACCTGCTCAA < 700
GAAGTGGCTGCCCCAGCGCTGTGCCACCTTCGCCAGCAAGATCCAGGGCC < 750
AGGTGGACAAGATTAAGGGCGCTGGCGGCGATACGTAAGGATCCCCGCTC < 800
CGTGTAATGGAGGCGCTCGTTGATCTGAGCCTTGCCCCCTGACGAACGG < 850
CGGTGGATGGAAGATACTGCTCTCAAGTGTGAAGCGGTAGCTTAGCTCC < 900
CCGTTTCGTGCTGATCAGTCTTTTTCAACACGTAAAAAGCGGAGGAGTTT < 950
TGCAATTTTGTTGTTGTAACGATCCTCCGTTGATTTTGGCCTCTTTCTC < 1000
CATGG < 1005
```

Features :

```
ZYS3 region : [6 : 222]
ZYS3 5'-UTR : [125 : 221]
zygotic motif : [32 : 40]
zygotic motif : [23 : 15]
TATA box : [82 : 87]
cgLuc CDS : [228 : 788]
3-UTR : [784 : 1000]
```

ZYS3p^(-94 to +97) ::cgLuc; Construct II in Figure 3A, 3B

```

TctagaTGGCTGTAGCGCCCGGCCCGCATGGGGCATGCCCGGCGCCCTAT < 50
AAAACGCGAGCGGAGTGCCGAACCCTGCATTACACAGACCTTCTTCCTC < 100
TCGCTTACCTTGTGAAGCACTGATAGCCGGGCATCCGCCTCTCCCTTCCC < 150
CTCGGGCTGCGCGCCTCTCCACCGAACACATCCCTCGctcgaGATGGGCG < 200
TGAAGGTGCTGTTTCGCCCTGATCTGCATCGCCGTCGCCGAGGCCGAAGCCG < 250
ACGGAGAACAACGAGGACTTCAACATTGTCGCCGTGGCGTCCAACCTTGC < 300
CACCACCGATCTGGACGCCGACCGCCGCAAGCTGCCGGGCAAGAAGCTGC < 350
CCCTGGAGGTCTCAAGGAAATGGAGGCCAACGCCCGGAAGGCCGGCTGC < 400
ACCCGCGGCTGCCTAATCTGCCTGTCCACATCAAGTGCACGCCGAAGAT < 450
GAAGAAGTTCATTCCCGGCCGGTGCCACACCTACGAGGGCGACAAGGAGT < 500
CCGCGCAGGGCGGCATTGGCGAGGCGATCGTGGACATCCCCGAGATTCCG < 550
GGCTTCAAGGACCTGGAGCCGATGGAGCAGTTCATCGCCCAGGTGGACCT < 600
GTGCGTGGACTGCACGACCGGCTGTCTGAAGGGCCTGGCCAATGTGCAGT < 650
GTTCCGACCTGCTCAAGAAGTGGCTGCCCCAGCGCTGTGCCACCTTCGCC < 700
AGCAAGATCCAGGGCCAGGTGGACAAGATTAAGGGCGCTGGCGGGCATAAC < 750
GTAAGGATCCCCGCTCCGTGTAAATGGAGGGCGCTCGTTGATCTGAGCCTT < 800
GCCCCCTGACGAACGGCGGTGGATGGAAGATACTGCTCTCAAGTGCTGAA < 850
GCGGTAGCTTAGCTCCCCGTTTCGTGCTGATCAGTCTTTTTCAACACGTA < 900
AAAAGCGGAGGAGTTTTGCAATTTTGTGGTTGTAACGATCCTCCGTTGA < 950
TTTTGGCCTCTTTCTCCATGG < 971

```

Features :

```

ZYS3 region : [6 : 188]
TATA box : [48 : 53]
ZYS3 5'-UTR : [91 : 187]
cgLuc CDS : [194 : 754]
3-UTR : [750 : 966]

```

ZYS3p^(-118 to -95: +1 to +95)::*cgLuc*; Construct III in Figure 3A, 3B

```

TctagaGCAGTCGGGTCGTGTCGCCTCGATTCGACACGACCTTCTTCCTC < 50
TCGCTTACCTTGTGAAGCACTGATAGCCGGGCATCCGCCTCTCCCTTCCC < 100
CTCGGGCTGCGCGCCTCTCCACCGAACACATCCCTCGctcgaGATGGGCG < 150
TGAAGGTGCTGTTTCGCCCTGATCTGCATCGCCGTCGCCGAGGCGAAGCCG < 200
ACGGAGAACAACGAGGACTTCAACATTGTTCGCCGTGGCGTCCAACCTTTC < 250
CACCACCGATCTGGACGCCGACCGCGGCAAGCTGCCGGGCAAGAAGCTGC < 300
CCCTGGAGGTCTCAAGGAAATGGAGGCGAACGCCCGGAAGGCCGGCTGC < 350
ACCCGCGGCTGCCTAATCTGCCTGTCCACATCAAGTGCACGCCGAAGAT < 400
GAAGAAGTTCATTCCCGGCCGGTGCCACACCTACGAGGGCGACAAGGAGT < 450
CCGCGCAGGGCGGCATTGGCGAGGCGATCGTGGACATCCCCGAGATTCCG < 500
GGCTTCAAGGACCTGGAGCCGATGGAGCAGTTCATCGCCCAGGTGGACCT < 550
GTGCGTGGACTGCACGACCGGCTGTCTGAAGGGCCTGGCCAATGTGCAGT < 600
GTTCCGACCTGCTCAAGAAGTGGCTGCCCCAGCGCTGTGCCACCTTCGCC < 650
AGCAAGATCCAGGGCCAGGTGGACAAGATTAAGGGCGCTGGCGGCGATAC < 700
GTAAGGATCCCCGCTCCGTGTAAATGGAGGCGCTCGTTGATCTGAGCCTT < 750
GCCCCCTGACGAACGGCGGTGGATGGAAGATACTGCTCTCAAGTGCTGAA < 800
GCGGTAGCTTAGCTCCCCGTTTCGTGCTGATCAGTCTTTTTCAACACGTA < 850
AAAAGCGGAGGAGTTTTGCAATTTTGTGGTTGTAACGATCCTCCGTTGA < 900
TTTTGGCCTCTTTCTCCATGG < 921

```

Features :

```

ZYS3 region      : [ 6 : 138 ]
ZYS3 5'-UTR     : [ 41 : 137 ]
zygotic motif   : [ 32 : 40 ]
zygotic motif   : [ 18 : 10 ]
zygotic motif   : [ 23 : 15 ]
cgLuc CDS       : [ 144 : 704 ]
3-UTR           : [ 700 : 916 ]

```

ZYS3p^(+1 to +97) ::cgLuc; Construct IV in Figure 3A, 3B

```
TctagaaCTTCTTCCTCTCGCTTACCTTGTGAAGCACTGATAGCCGGGCA < 50
TCGCGCTCTCCCTTCCCCTCGGGCTGCGCGCCTCTCCACCGAACACATCC < 100
CTCGctcgaGATGGGCGTGAAGGTGCTGTTTCGCCCTGATCTGCATCGCCG < 150
TCGCCGAGGCGAAGCCGACGGAGAACAACGAGGACTTCAACATTGTCGCC < 200
GTGGCGTCCAAC TTTGCCACCACCGATCTGGACGCCGACCGCGGCAAGCT < 250
GCCGGGCAAGAAGCTGCCCTGGAGGTCCTCAAGGAAATGGAGGCGAACG < 300
CCCGGAAGGCCGGCTGCACCCGCGGCTGCCTAATCTGCCTGTCCCACATC < 350
AAGTGCACGCCGAAGATGAAGAAGTTCATTCCCGGCCGGTGCCACACCTA < 400
CGAGGGCGACAAGGAGTCCGCGCAGGGCGGCATTGGCGAGGCGATCGTGG < 450
ACATCCCCGAGATTCCGGGCTTCAAGGACCTGGAGCCGATGGAGCAGTTC < 500
ATCGCCCAGGTGGACCTGTGCGTGGACTGCACGACCGGCTGTCTGAAGGG < 550
CCTGGCCAATGTGCAGTGTTCGACCTGCTCAAGAAGTGGCTGCCCCAGC < 600
GCTGTGCCACCTTCGCCAGCAAGATCCAGGGCCAGGTGGACAAGATTAAG < 650
GGCGCTGGCGGCGATAACGTAAGGATCCCCGCTCCGTGTAATGGAGGCGC < 700
TCGTTGATCTGAGCCTTGCCCCCTGACGAACGGCGGTGGATGGAAGATAC < 750
TGCTCTCAAGTGCTGAAGCGGTAGCTTAGCTCCCCGTTTCGTGCTGATCA < 800
GTCTTTTTCAACACGTAAAAAGCGGAGGAGTTTTGCAATTTTGTGGTTG < 850
TAACGATCCTCCGTTGATTTTGGCCTCTTTCTCCATGG < 888
```

Features :

```
ZYS3 5'-UTR : [ 8 : 104 ]
cgLuc CDS : [ 111 : 671 ]
3-UTR : [ 667 : 883 ]
```

Z-ZYS3p^(-94 to +97) ::*cgLuc*; synthetic ZYRE substitution to ZYS3 promoter in Figure 3C, 3D, 3E

```

TctagaGGTGACATGACTGGCTGTAGCGCCCGGCCCGCATGGGGCATGCC < 50
CGGCGCCCTATAAAAACGCGAGCGGAGTGCCGAACCCTGCATTCACACAGA < 100
CCTTCTTCCTCTCGCTTACCTTGTGAAGCACTGATAGCCGGGCATCCGCC < 150
TCTCCCTTCCCTCGGGCTGCGCGCCTCTCCACCGAACACATCCCTCGct < 200
cgaGATGGGGCGTGAAGGTGCTGTTTCGCCCTGATCTGCATCGCCGTGCGCG < 250
AGGCGAAGCCGACGGAGAACAACGAGGACTTCAACATTGTCGCCGTGGCG < 300
TCCAACCTTTGCCACCACCGATCTGGACGCCGACCGCGGCAAGCTGCCGGG < 350
CAAGAAGCTGCCCTGGAGGTCCCTCAAGGAAATGGAGGCGAACGCCCGGA < 400
AGGCCGGCTGCACCCGCGGCTGCCTAATCTGCCTGTCCACATCAAGTGC < 450
ACGCCGAAGATGAAGAAGTTCATTTCCCGGCCGGTGCCACACCTACGAGGG < 500
CGACAAGGAGTCCGCGCAGGGCGGCATTTGGCGAGGCGATCGTGGACATCC < 550
CCGAGATTCGGGGCTTCAAGGACCTGGAGCCGATGGAGCAGTTCATCGCC < 600
CAGGTGGACCTGTGCGTGGACTGCACGACCGGCTGTCTGAAGGGCCTGGC < 650
CAATGTGCAGTGTTCGACCTGCTCAAGAAGTGGCTGCCCCAGCGCTGTG < 700
CCACCTTCGCCAGCAAGATCCAGGGCCAGGTGGACAAGATTAAGGGCGCT < 750
GGCGGCGATACGTAAGGATCCCCGCTCCGTGTAAATGGAGGCGCTCGTTG < 800
ATCTGAGCCTTGCCCCCTGACGAACGGCGGTGGATGGAAGATACTGCTCT < 850
CAAGTGCTGAAGCGGTAGCTTAGCTCCCCGTTTCGTGCTGATCAGTCTTT < 900
TTCAACACGTAAAAAGCGGAGGAGTTTTGCAATTTTGTGGTTGTAACGA < 950
TCCTCCGTTGATTTTGGCCTCTTTCTCCATGG < 982

```

Features :

```

zygotic motif      : [ 9 : 17 ]
ZYS3 region       : [18 : 199 ]
ZYS3 5'-UTR      : [102 : 198 ]
cgLuc CDS         : [205 : 765 ]
3-UTR             : [761 : 977 ]

```

TUB2^{p(-53 to +113)} ::*cgLuc*; tubulin minimal promoter in Figure 3C, 3E

>Tubulin minimal promoter

```
TctagacatatgCTGTTTAAATAGCCAGGCCCCCGATTGCAAAGACATTA < 50
TAGCGAGCTACCAAAGCCATATTCAAACACCTAGATCACTACCACTTCTA < 100
CACAGGCCACTCGAGCTTGTGATCGCACTCCGCTAAGGGGGCGCCTCTTC < 150
CTCTTCGTTTCAGTCACAACCCGCAAACgtcgaGATGGGCGTGAAGGTGC < 200
TGTTCGCCCTGATCTGCATCGCCGTCGCCGAGGCGAAGCCGACGGAGAAC < 250
AACGAGGACTTCAACATTGTTCGCCGTGGCGTCCAACCTTTGCCACCACCGA < 300
TCTGGACGCCGACCGCGGCAAGCTGCCGGGCAAGAAGCTGCCCTGGAGG < 350
TCCTCAAGGAAATGGAGGCGAACGCCCGGAAGGCCGGCTGCACCCGCGGC < 400
TGCCTAATCTGCCTGTCCACATCAAGTGCACGCCGAAGATGAAGAAGTT < 450
CATTCCCGGCCGGTGCCACACCTACGAGGGCGACAAGGAGTCCGCGCAGG < 500
GCGGCATTGGCGAGGCGATCGTGGACATCCCCGAGATTCGGGGCTTCAAG < 550
GACCTGGAGCCGATGGAGCAGTTCATCGCCAGGTGGACCTGTGCGTGGA < 600
CTGCACGACCGGCTGTCTGAAGGGCCTGGCCAATGTGCAGTGTTCGGACC < 650
TGCTCAAGAAGTGGCTGCCCCAGCGCTGTGCCACCTTCGCCAGCAAGATC < 700
CAGGGCCAGGTGGACAAGATTAAGGGCGCTGGCGGCGATACGTAAGGATC < 750
CCCGCTCCGTGTAAATGGAGGCGCTCGTTGATCTGAGCCTTGCCCCCTGA < 800
CGAACGGCGGTGGATGGAAGATACTGCTCTCAAGTGTGAAGCGGTAGCT < 850
TAGCTCCCCGTTTCGTGCTGATCAGTCTTTTTTCAACACGTAAAAAGCGGA < 900
GGAGTTTTGCAATTTTGTGGTTGTAACGATCCTCCGTTGATTTTGGCCT < 950
CTTTCTCCATGG < 962
```

Features :

```
TUB2 region : [6 : 179]
TATA box : [16 : 21]
TUB2 5'UTR : [66 : 178]
cgLUC : [185 : 742]
3-UTR : [741 : 957]
```

ZYS3p^(-118 to -95) ::TUB2p^(-53 to +113)::cgLuc; chimeric promoter made from ZYS3 and TUB2 tubulin minimal promoter in Figure 3C, 3E, 5E

```

TctagaGCAGTCGGGTCGTGTCGCCTCGATTCGACACGACCTGTTTAAAT < 50
AGCCAGGCCCCCGATTGCAAAGACATTATAGCGAGCTACCAAAGCCATAT < 100
TCAAACACCTAGATCACTACCACTTCTACACAGGCCACTCGAGCTTGTGA < 150
TCGCACTCCGCTAAGGGGGCGCCTCTTCCTCTTCGTTTCAGTCACAACCC < 200
GCAAACgtcgaGATGGGCGTGAAGGTGCTGTTCCGCCCTGATCTGCATCGC < 250
CGTCGCCGAGGCGAAGCCGACGGAGAACAACGAGGACTTCAACATTGTCCG < 300
CCGTGGCGTCCAACTTTGGCCACCACCGATCTGGACGCCGACCGCGGCAAG < 350
CTGCCGGGCAAGAAGCTGCCCTGGAGGTCCTCAAGGAAATGGAGGCGAA < 400
CGCCCGGAAGGCCGGCTGCACCCGCGGCTGCCTAATCTGCCTGTCCCACA < 450
TCAAGTGCACGCCGAAGATGAAGAAGTTCATTCCCGGCCGGTGCCACACC < 500
TACGAGGGCGACAAGGAGTCCGCGCAGGGCGGCATTGGCGAGGCGATCGT < 550
GGACATCCCCGAGATTCCGGGCTTCAAGGACCTGGAGCCGATGGAGCAGT < 600
TCATCGCCCAGGTGGACCTGTGCGTGGACTGCACGACCGGCTGTCTGAAG < 650
GGCCTGGCCAATGTGCAGTGTTCGACCTGCTCAAGAAGTGGCTGCCCCA < 700
GCGCTGTGCCACCTTCGCCAGCAAGATCCAGGGCCAGGTGGACAAGATTA < 750
AGGGCGCTGGCGGCGATACGTAAGGATCCCCGCTCCGTGTAATGGAGGC < 800
GCTCGTTGATCTGAGCCTTGCCCCCTGACGAACGGCGGTGGATGGAAGAT < 850
ACTGCTCTCAAGTGTGAAGCGGTAGCTTAGCTCCCCGTTTCGTGCTGAT < 900
CAGTCTTTTTCAACACGTAAAAAGCGGAGGAGTTTTGCAATTTTGTGGT < 950
TGTAACGATCCTCCGTTGATTTTGGCCTCTTCTCCATGG < 990

```

Features :

```

ZYS3 region      : [ 6 : 40 ]
zygotc motif    : [ 18 : 10 ]
zygotc motif    : [ 23 : 15 ]
zygotc motif    : [ 32 : 40 ]
TUB2 region     : [ 41 : 207 ]
TUB2 5'UTR     : [ 94 : 206 ]
TATA box       : [ 44 : 49 ]
cgLuc CDS      : [ 213 : 773 ]
3-UTR         : [ 769 : 985 ]

```

DMT4^(-498 to +479) ::cgLuc; Error! Reference source not found.

```
TctagaGTGAGCTAGAAGCGGGATAAAACCACTCGCCAAGTTTTGGGTCA < 50
CTCACAGGCACTCGCCAAGTAAACGTGGTGA CTTTCTCCCGGCTCTGAGA < 100
CAAAC TTGGTGTGTGGTTTAAATCCCGCTTCTAAAGTGGGCGCACGGCATG < 150
CCAACACCGCCCCCTCAGCAACTACCGTCTGCAGTCTGCCCGCGCTACACC < 200
GTAAATTTTGGGGCGCGATAACGTGTTCGGTTTGGGCGGGAAAGGCGGCAGG < 250
AAAGGCAGGCGGGAAGGGGGGCATCAGTTGATGGGACTGTATGGGACTCTT < 300
GATGGGACCGGATGGGACTTGCAATGCATTGGGCGCTGACTAACCGCACA < 350
TCATCTGGCAATTTGTTTCCACAGTTTGTTCGATAGAAGCGTTTCTGCG < 400
CTGCTACGGGTGGCTTGCTGATCATATGTTGACATTTGCGGTAAC TCGTT < 450
GGCAGTCTCACGCTGCTTCTCGCGACTCTAGCGTAGTCTGATCAGTAACC < 500
ACCTTATAGTATCCCCGCACCAGAAGTCACAGCGCATCGAGCGCCAGCAG < 550
CTCAGGCGCGGGCTCGATGGCAACGATTGCGCGGCCTTTCGACTGTCCGC < 600
GGTTGCCAGTCCGGCACAAATGGCCTAGCCGCCACTGCATGCGCGCCAGCG < 650
CGTATGAAGCCTGGTGTTCGGAAGTGCCTCGGGCGTTTCGGGCGCAGGCCGG < 700
AGCGTTCGGTCCCTGCGCCGCGATCGCCATCCCGCCCGCGCCAGCTCGGC < 750
GGAAGCCCGCGCCGCCGCACCCAGCAGCGGATGGCTCGGTAGCGCCACAG < 800
CATT CGAAGGTAGGTGTGGACTACAGCTATGCGAGCTCGCGTGGCGCGAA < 850
CGGGGATGACGTTGATGGCAACCGGCGTGCCTCGTGACGTGACCGGTGA < 900
GCTCCAGCGTGGGGCCATCACAAGTGAAGCGCCCTCCCGCTCCGCCCC < 950
TGCACAGGCAACGCCTGCAGCGAAGGCAAGCctcgaGATGGGCGTGAAGG < 1000
TGCTGTTCGCCCTGATCTGCATCGCCGTCGCCGAGGCGAAGCCGACGGAG < 1050
AACAAACGAGGACTTCAACATTGTCGCCGTGGCGTCCAAC TTTGCCACCAC < 1100
CGATCTGGACGCCGACCGCGGCAAGCTGCCGGGCAAGAAGCTGCCCCCTGG < 1150
AGGTCCTCAAGGAAATGGAGGCGAACGCCCGGAAGGCCGGCTGCACCCGC < 1200
GGCTGCCTAATCTGCCTGTCCCACATCAAGTGCACGCCGAAGATGAAGAA < 1250
GTTCAATTCCCGGCCGGTGCCACACCTACGAGGGCGACAAGGAGTCCGCGC < 1300
AGGGCGGCATTGGCGAGGCGATCGTGGACATCCCCGAGATTCCGGGCTTC < 1350
AAGGACCTGGAGCCGATGGAGCAGTTCATCGCCAGGTGGACCTGTGCGT < 1400
GGACTGCACGACCGGCTGTCTGAAGGGCCTGGCCAATGTGCAGTGTTCGG < 1450
ACCTGCTCAAGAAGTGGCTGCCCCAGCGCTGTGCCACCTTCGCCAGCAAG < 1500
ATCCAGGGCCAGGTGGACAAGATTAAGGGCGCTGGCGGCGATACGTAAGG < 1550
ATCCCCGCTCCGTGTA AATGGAGGCGCTCGTTGATCTGAGCCTTGCCCCC < 1600
TGACGAACGGCGGTGGATGGAAGATACTGCTCTCAAGTGCTGAAGCGGTA < 1650
GCTTAGCTCCCCGTTTCGTGCTGATCAGTCTTTTTTCAACACGTAAAAAGC < 1700
GGAGGAGTTTTGCAATTTTGTGGTTGTAACGATCCTCCGTTGATTTTGG < 1750
CCTCTTTCTCCATGG < 1765
```

Features :

```
DMT4 region : [ 6 : 982 ]
DMT4 5'-UTR : [ 503 : 653 ]
DMT4 1st exon CDS : [ 654 : 809 ]
ZYRE-like motif : [ 886 : 894 ]
DMT4 2nd exon CDS : [ 958 : 981 ]
cgLuc : [ 982 : 1543 ]
RBCS2 3-UTR : [ 1544 : 1760 ]
```


ϕ -DMT4^(-498 to +479) ::cgLuc; Error! Reference source not found.

```
TctagaGTGAGCTAGAAGCGGGATAAAAACCACTCGCCAAGTTTTGGGTCA < 50
CTCACAGGCACTCGCCAAGTAAACGTGGTACTTTCTCCCGGCTCTGAGA < 100
CAAACCTTGGTGTGTGGTTTAAATCCCCTTCTAAAGTGGGCGCACGGCATG < 150
CCAACACCGCCCCCTCAGCAACTACCGTCTGCAGTCTGCCCGCGCTACACC < 200
GTAAATTTTGGGGCGCGATACGTGTCGGTTTGGGCGGGAAGGCGGCAGG < 250
AAAGGCAGGCGGGAAGGGGGGCATCAGTTGATGGGACTGTATGGGACTCTT < 300
GATGGGACCGGATGGGACTTGCAATGCATTGGGCGCTGACTAACCGCACA < 350
TCATCTGGCAATTTGTTTCCACAGTTTGTTCGATAGAAGCGTTTCTGCG < 400
CTGCTACGGGTGGCTTGCTGATCATATGTTGACATTTGCGGTAACCTGTT < 450
GGCAGTCTCACGCTGCTTCTCGGACTCTAGCGTAGTCTGATCAGTAACC < 500
ACCTTATAGTATCCCCGCACCAGAAGTCACAGCGCATCGAGCGCCAGCAG < 550
CTCAGGCGCGGGCTCGATGGCAACGATTGCGCGGCCTTTCGACTGTCCGC < 600
GGTTGCCAGTCCGGCACAATGGCCTAGCCGCCACTGCATGCGCGCCAGCG < 650
CGTATGAAGCCTGGTGTTCGGAAGTGCCTCGGGCGTTTCGGGCGCAGGCCG < 700
AGCGTCGGTCCCTGCGCCGCGATCGCCATCCCGCCGCGCCAGCTCGGC < 750
GGAAGCCCGCGCCGCCGCACCCAGCAGCGGATGGCTCGGTAGCGCCACAG < 800
CATTCGAAGGTAGGTGTGGACTACAGCTATGCGAGCTCGCGTGGCGCGAA < 850
CGGGGATGACGTTGATGGCAACCGGCGTGCCTCGTAACGTTACCGGTGA < 900
GCTCCCAGCGTGGGGCCATCACAAGTGAAGCGCCCTCCCGCTCCGCCCC < 950
TGCACAGGCAACGCCTGCAGCGAAGGCAAGCctcgaGATGGGCGTGAAGG < 1000
TGCTGTTTCGCCCTGATCTGCATCGCCGTCGCCGAGGCCAAGCCGACGGAG < 1050
AACAAACGAGGACTTCAACATTGTTCGCCGTGGCGTCCAACTTTGCCACCAC < 1100
CGATCTGGACGCCGACCGCGGCAAGCTGCCGGGCAAGAAGCTGCCCTGG < 1150
AGGTCCTCAAGGAAATGGAGGCGAACGCCCGGAAGGCCGGCTGCACCCGC < 1200
GGCTGCCTAATCTGCCTGTCCCACATCAAGTGCACGCCGAAGATGAAGAA < 1250
GTTTCATTCCCAGCGGTTGCCACACCTACGAGGGCGACAAGGAGTCCGCGC < 1300
AGGGCGGCATTGGCGAGGCGATCGTGGACATCCCCGAGATTCCGGGCTTC < 1350
AAGGACCTGGAGCCGATGGAGCAGTTCATCGCCAGGTGGACCTGTGCGT < 1400
GGACTGCACGACCGGCTGTCTGAAGGGCCTGGCCAATGTGCAGTGTTCGG < 1450
ACCTGCTCAAGAAGTGGCTGCCCCAGCGCTGTGCCACCTTCGCCAGCAAG < 1500
ATCCAGGGCCAGGTGGACAAGATTAAGGGCGCTGGCGGCGATACGTAAGG < 1550
ATCCCCGCTCCGTGTAAATGGAGGCGCTCGTTGATCTGAGCCTTGCCCC < 1600
TGACGAACGGCGGTGGATGGAAGATACTGCTCTCAAGTGTGAAGCGGTA < 1650
GCTTAGCTCCCCGTTTCGTGCTGATCAGTCTTTTTCAACACGTAAAAAGC < 1700
GGAGGAGTTTTGCAATTTTGTGGTTGTAACGATCCTCCGTTGATTTTGG < 1750
CCTCTTTCTCCATGG < 1765
```

Features :

```
DMT4 region : [6 : 982]
DMT4 5'-UTR : [503 : 653]
DMT4 1st exon CDS : [654 : 809]
Mutated ZYRE-like motif : [886 : 894]
DMT4 2nd exon CDS : [958 : 981]
cgLuc : [982 : 1543]
RBCS2 3-UTR : [1544 : 1760]
```

Figure S1. Sequences of transgenes used in the luciferase expression experiments.