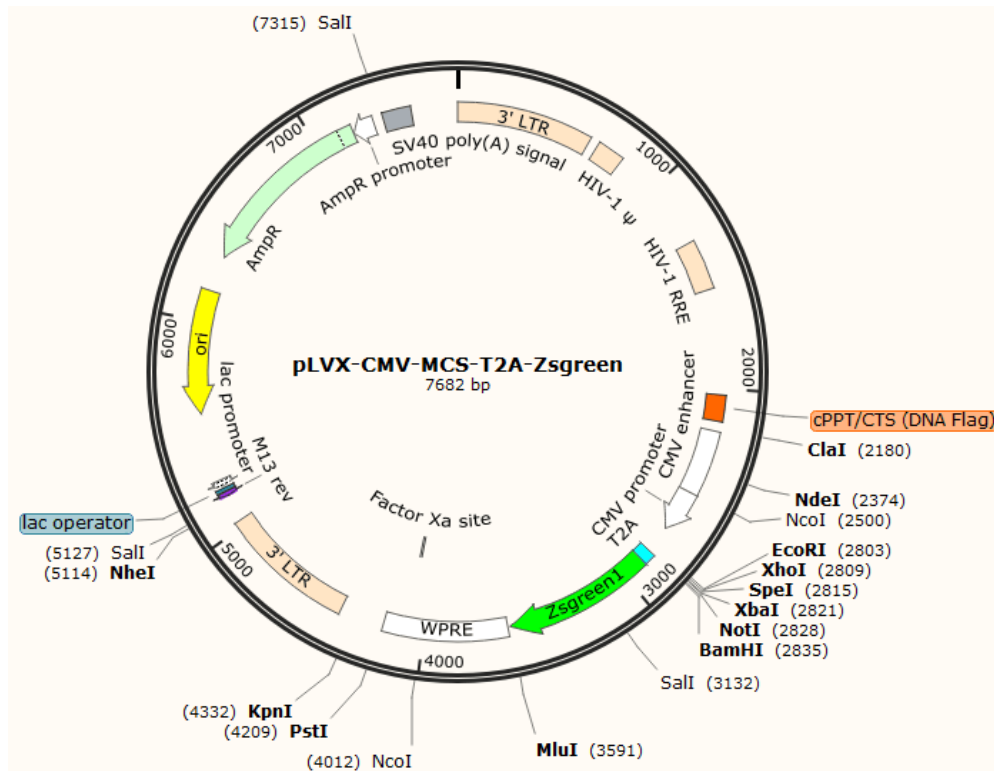


## Supplemental data

**Figure S1. pLVX-CMV-MCS-T2A-Zsgreen vector map.**



**Figure S2. mitoNEET overexpression vector sequencing and matching result.**

```

CCGATGGGGGGGCATATAGCAGAGCTCGTTTACTGACCGTCAGATCGCCTGGAGACGCCATCCACGCTG
TTTTGACCTCCATAGAAGACACCGACTTTACTAGAGGATCTATTTCCGGTGAATTCGCCACCATGAGTCTC
TGACTTCCAGTTCCAGCGTACGAGTTGAATGGATCGCAGCAGTTACCATTGCTGCTGGGACAGCTGCAA
TTGGTTATCTAGCTTACAAAAAGATTTTATGTTAAAGATCATCGAAATAAAGCTATGATAAACCTTCACA
TCCAGAAAGACAACCCCAAGATAGTACATGCTTTTGCATGGAGGATTTGGGAGATAAAGCTGTGTACT
GCCGTTGTTGGAGGTCCAAAAAGTTCCATTCTGTGATGGGGCTCACACAAAACATAACGAAGAGACTG
GAGACAATGTGGGCCCTCTGATCATCAAGAAAAAAGAACTGACTACAAGGATGACGATGACAAGGATT
ACAAAGACGACGATGATAAGGACTATAAGGATGATGACGACAAAAGGATCCGAGGGCAGAGGAAGTCTTC
TAACATGCGGTGACGTGGAGGAGAATCCCGGCCCTATGGCCAGTCCAAGCACGGCCTGACCAAGGAGA
TGACCATGAAGTACCGCATGGAGGGCTGCGTGGACGGCCACAAGTTTCGTGATCACCGGCGAGGGCATCG
GCTACCCCTTCAAGGGCAAGCAGGCCATCAACCTGTGCGTGGTGGAGGGCGGCCCTTGCCCTTCGCCG
AGGACATCTTGTCCGCCCTTCATGTACGGCAACCGGTGTTACCGAGTACCCCAAGGACATCGTCG
ACTACTTCAAGAACTCTTGCCCCGCCGGCTACACCTGGGACCGCTCCTTCTGTTTCGAGGACGGCGCCG
TGTGCATCTGCAACGCCGACATCA
    
```

mitoNEET overexpression vector sequencing result. (objective sequence highlighted in yellow and 3\* flag sequence highlighted in purple).

```

CISD1+3flag? -----
W24023_W1849 1 ccgatggggggccatatagcagagctcgttttagtgaccgtcagatcgctggagacgccatcccacgtgt

CISD1+3flag? 1 -----atgagctctg
W24023_W1849 71 ttgacctccatagaagacaccgactttactagaggatctatttccgggtaattcgccaccatgagctctg

CISD1+3flag? 10 acttccagttccagcgtacgagttgaatggatcgcagcagttaccattgctgctgggacagctgcaattg
W24023_W1849 141 acttccagttccagcgtacgagttgaatggatcgcagcagttaccattgctgctgggacagctgcaattg

CISD1+3flag? 80 gtatctagcttacaaaagattttatgttaagatcatcgaaataaagctatgataaaccttcacatcca
W24023_W1849 211 gtatctagcttacaaaagattttatgttaagatcatcgaaataaagctatgataaaccttcacatcca

CISD1+3flag? 150 gaaagacaaccccccaagatagtagcttttgacatggaggatttgggagataaaagctgtgtactgccgt
W24023_W1849 281 gaaagacaaccccccaagatagtagcttttgacatggaggatttgggagataaaagctgtgtactgccgt

CISD1+3flag? 220 tgttgagggtccaaaaagtcccatctctgtgatggggctcacacaaaacataaacgaagagactggagaca
W24023_W1849 351 tgttgagggtccaaaaagtcccatctctgtgatggggctcacacaaaacataaacgaagagactggagaca

CISD1+3flag? 290 atgtgggccctctgatcatcaagaaaaaagaactgactacaaggatgacgatgacaaggattacaaaga
W24023_W1849 421 atgtgggccctctgatcatcaagaaaaaagaactgactacaaggatgacgatgacaaggattacaaaga

CISD1+3flag? 360 cgacgatgataaggactataaggatgatgacgacaaa-----
W24023_W1849 491 cgacgatgataaggactataaggatgatgacgacaaaaggatccgagggcagaggaagtcttctaacatgc

CISD1+3flag? -----
W24023_W1849 561 ggtgacgtggaggagaatcccggccctatggcccagtccaagcacggcctgaccaaggagatgaccatga

CISD1+3flag? -----
W24023_W1849 631 agtaccgcatggagggtgcgtggacggccacaagttcgtgatcaccggcgagggcatcggtaccctt

```

mitoNEET overexpression vector matching result. (green region showed objective sequence of mitoNEET overexpression vector matched mitoNEET fragment).

**Table S1. Primers designed for mitoNEET and 3\*flag.**

h-CISD1-Eco/Bam-F	ggatctatttccgggtaattc gcacc ATGAGTCTGACTTCCAGT
h-CISD1-r	TCGTCATCCTTG TAGTCAGTTTCTTTTTTCTTGATGAT
3flag ( FNDC5 ) -f	GACTACAAGGATGACGATGA
3flag(FNDC5)-Eco/Bam-R	acttctctgccctcgatcc TTTGTCGTCATCATCCT