Table S1The primers used in the present study.

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| Primer name | Primer sequence | Purpose |
| StNF-YA1-F | TCCTCAACTTTCGGGCCGCATT |  |
| StNF-YA1-R | AGGTCGGCGCAAAGCATGGA |
| StNF-YA2-F | TTCTGCGGCGAAGAGAGTCACG |
| StNF-YA2-R | TCGCAAAACGCCCTCCAGAAGC |
| StNF-YA3-F | CATGATGGTCGGCAGCTGGA |
| StNF-YA3-R | TTCCCCTGGGCAACGGCATT |
| StNF-YA5-F | GCGGGTGTTCCTTTGCCATCA |
| StNF-YA5-R | TCAATGCATGCAAATGGCGTGA |
| StNF-YA6-F | TGGTTTCTCCTCGCGTGCCACT |
| StNF-YA6-R | TGACGATGCCGGGACTCATGGA |
| StNF-YA7-F | GGGGTTCTGGAGGGCGCTTTTT |
| StNF-YA7-R | TGCCACCTGCCTGTCGCTTA |
| StNF-YA8-F | TGGTCAATCCCTGGGCCGGATTA |
| StNF-YA8-R | TGGCGCGAGAGGTGCAAGAATG |
| StNF-YA9-F | GCCAGTTGAAGTGAAAGAGGAGCCAAT |
| StNF-YA9-R | TGTCGGTGACGCGATTCGTGA |
| StNF-YA10-F | CCCTGGGTTGATGCGGGAAA |
| StNF-YA10-R | TGGCTGGAGCAGCTGGCTGAAA |
| StNF-YB6-F | TGCTTTGCGCCATGGACAGG |
| StNF-YB6-R | ATCCCCCTGATAGGGCGTGATGCT |
| StNF-YB14-F | TGGCATGATGATGATGGGGAATCA |
| StNF-YB14-R | CCCAACATCAGGAAATCGCGAACC |
| StNF-YB19-F | CGCAGGGTTGTGAAGGAAAAGC |
| StNF-YB19-R | GCAGTTGCGGAGAGGTAATGGATGA |
| StNF-YB20-F | TCAGGAGGTCACAACAACGCGAACA |
| StNF-YB20-R | TCAGGAGGTCACAACAACGCGAACA |
| StNF-YB22-F | TTGCCCCCAGATGTCCGTGTTG |
| StNF-YB22-R | TCCCCAAAGCCAAGAACCTCCA |
| StNF-YC1-F | GGCATGCCACCACAATCTGCTCA |
| StNF-YC1-R | GGTTGTTGCTGCTGGGGCCAAA | qRT-PCR |
| StNF-YC2-F | TGGCCATTCTGATGCTGCTGGTG |
| StNF-YC2-R | ATCAGCACGGCTTACCCGACCA |
| StNF-YC5-F | GGCATGGTGGGTTCCACAGCAA |
| StNF-YC5-R | TCAGCAGCCTGCCAAACGGACT |
| StNF-YC8-F | TCCCCAGAAGTCGTCGCTCCTGCTA |
| StNF-YC8-R | TGGTGCTGGTGCTGGTGTTGCT |
| StNF-YC9-F3 | TGCCGAGGGCCTCCCATACAAT |
| StNF-YC9-R3 | GGACGGGGATGCTGGCCATAAA |
| StNF-YC9-F1 | ATGGATCAGCAAGGAAATGGAC | Clone of StNF-YC9 gene |
| StNF-YC9-R1 | TTAAGAATCTGATGGAGGTTGCTGTTG |
| EF1ɑ-F  EF1ɑ-R | ATTGATGCCCCTGGTCACAG  CATGTTCACGGGTCTGACCA | qRT-PCR potato reference gene |
| StNF-YC9-F1 | ATGGATCAGCAAGGAAATGGAC | Clone of StNF-YC9 gene |
| StNF-YC9-R1 | TTAAGAATCTGATGGAGGTTGCTGTTG |
| StNF-YC9-F2 | CGCGGATCCATGGATCAGCAAGGAA | Vector construction of pCAMBIA1300-35S-EGFP- StNF-YC9 |
| StNF-YC9-R2 | GACGTCGACAGAATCTGATGGAGGT |
| StNF-YC9-F4 | CGCGGATCCATGGATCAGCAAGGAA | Vector construction of pCAMBIA1300-35S- StNF-YC9 |
| StNF-YC9-R4 | TGGCTGCAGTTAAGAATCTGATGGA |
| HPT-F | ATTTGTGTACGCCCGACAGT | Identification of putative transgenic potato |
| HPT-R | GATGTAGGAGGGCGTGGATA |