ATGTCTTCAATTCGCCGGAGAAAACAAAGCGAAGCCTCTAAAGCTACGAATTCAGAGAAAACCAATTACGACGACGAAGACATTAAGAAG
M S S I R R R K Q S E A S K A T N S E K T N Y D D E D I K K
AAGAAAATCGATGAAGAAGAGGACAACAACAAGAAGAAGAAGCAAAAGACGTGGTCGTGCGTGGACTCGTGTTGTTGGCTGATTGGCTGC
K K I D E E E D N N K K K K Q K T W S C V D S C C W L I G C
ATATGCGTTACCTGGTGGCTGTTGCTGTTTATGTACAACGCAATGCCGGCGTCGTTTAATCAGTACGTGACGGAGGCGATAACAGGGCCG
I C V T W W L L L F M Y N A M P A S F N Q Y V T E A I T G P
GTGCCGGATCCGCCGGGAGTGAAGCTGAGGAAGGAGGGGCTGAGAGCGAGGCATCCGGTGGTGTTCGTGCCCGGAATCGTTACGGGCGGG
V P D P P G V K L R K E G L R A R H P V V F V P G I V T G G
CTGGAGCTGTGGGAAGGGAAGCAGTGTGCTGATGGTCTGTTCAGGAAGCGGTTGTGGGGTGGCACTTTTGGTGAGGTCTACAAGAGACCT
L E L W E G K Q C A D G L F R K R L W G G T F G E V Y K R P
CTATGCTGGGTGGAGCACATGTCGCTGGACAATGAAACTGGATTGGATCCTTCGGGTATAAGGGTCAGACCTGTCTCTGGACTTGTGGCT
L C W V E H M S L D N E T G L D P S G I R V R P V S G L V A
GCTGATTACTTTGCTCCAGGTTACTTTGTGTGGGCCGTTCTGATTGCTAACTTGGCACACATTGGATATGAAGAGAAAAACATGTATATG
A D Y F A P G Y F V W A V L I A N L A H I G Y E E K N M Y M
GCTGCTTATGATTGGAGAATCTCGTTCCAAAACACTGAGGTAAGGGACCAAACACTCAGCCGCATCAAAAGTAATATAGAATTGATGGTA
A A Y D W R I S F Q N T E V R D Q T L S R I K S N I E L M V
GCTACCAATGGCGGAAAAAAGGCAGTTATTATTCCACATTCTATGGGCGTTTTGTACTTTCTACATTTTATGAAGTGGGTGGAGGCACCA
A T N G G K K A V I I P H S M G V L Y F L H F M K W V E A P
GCACCCATGGGGGGTGGTGGTGGACCTGATTGGTGTTCTAAGCATATAAAGGCAGTGATGAACATTGGTGGACCCTTTTTTGGTGTTCCA
A P M G G G G G G P D W C S K H I K A V M N I G G P F F G V P
AAAGCTGTAGGCGGTCTTTTCTCTGCTGAAGCAAAAGATATTGCAGTTGCCAGGGCCATTGCACCGGGTTTTCTGGATAATGATTTATTT
K A V G G L F S A E A K D I A V A R A I A P G F L D N D L F
CGCCTTCAGACACTGCAGCATGTAATGAGGATGACACGTTCATGGGATTCAACCATGTCAATGATACCAAAAGGAGGGGATACTATATGG
R L Q T L Q H V M R M T R S W D S T M S M I P K G G D T I W
GGTGGTCTTGATTGGTCACCTGAGGAAAGTTGTTCTCCTAGAAACAGAAAACAAAGAAACAATGATACCCTGGCGAATGAAGATGAGACT
G G L D W S P E E S C S P R N R K Q R N N D T L A N E D E T
GGAAATGGATTTTCTCAAACAAAGCACGTAAATTATGGAAGGATTATATCATTCGGGAAAGATGTGGCTGAGGCACCTTCATCTGAGATT
G N G F S Q T K H V N Y G R I I S F G K D V A E A P S S E I
GAGAGGATAGATTTTAGGGATGCTGTTAAGGGTTACAATGTTGCAAATACTACCTGTCGAGATGTGTGGACAGAATACCATGATATGGGG
E R I D F R D A V K G Y N V A N T T C R D V W T E Y H D M G
ATTGGAGGAATTAAGGCTGTTGCAGAATATAAAACTTACACTGCTGGATCAGTTATAGATCTGCTTCAATTCGTTGCCCCAAAAATGATG
I G G I K A V A E Y K T Y T A G S V I D L L Q F V A P K M M
GCACGTGGTAGTGCTCATTTCTCTTATGGAATTGCTGACAATTTGGATGACCCAAAATACCAACACTATAAGTACTGGTCAAACCCCTTG
A R G S A H F S Y G I A D N L D D P K Y Q H Y K Y W S N P L
GAAACAAAGTTACCAAATGCTCAGGATATGGAAATCTTTTCAATGTACGGAGTTGGAATACCAACTGAGCGAGCCTATGTTTACAAGTTA
E T K L P N A Q D M E I F S M Y G V G I P T E R A Y V Y K L
TCCCCTTTAACTGAATGCTATATTCCATTTCAAATCGATACTTCAGCTGAAGACAAAGATGACGGTGGCTGTCTGAAGGATGGAGTCTAT
S P L T E C Y I P F Q I D T S A E D K D D G G C L K D G V Y
TCTGTTGACGGGGATGAGACCGTACCTGTTTTAAGTGCAGGCTTTATGTGTGCTAAAGGTTGGCGCGGGAAAACCAGATTTAATCCCTCA
S V D G D E T V P V L S A G F M C A K G W R G K T R F N P S
GGAATCCGGACATATATCAGAGAATACGATCATTCTCCTCCATCTAATCTGCTGGAGGGCCGGGGCACTCAGAGTGGTGCTCATGTCGAT
G I R T Y I R E Y D H S P P S N L L E G R G T Q S G A H V D
ATAATGGGAAATTTTGCACTAATCGAGGATGTCATTAGGGTGGCAGCTGGGGCTTCAGGAGAAGACTTAGGAGGAGATCAAGTTTATTCC
I M G N F A L I E D V I R V A A G A S G E D L G G D Q V Y S
AGCATCTTTAAGTGGTCTGATAAGATCAACTTGCAACTGTAA
S I F K W S D K I N L Q L *

Figure S1. The sequence of nucleotide and translated amino acid in *XsPDAT1* gene of *X. sorbifolium*.

Note：The sequence in the box is the primers.

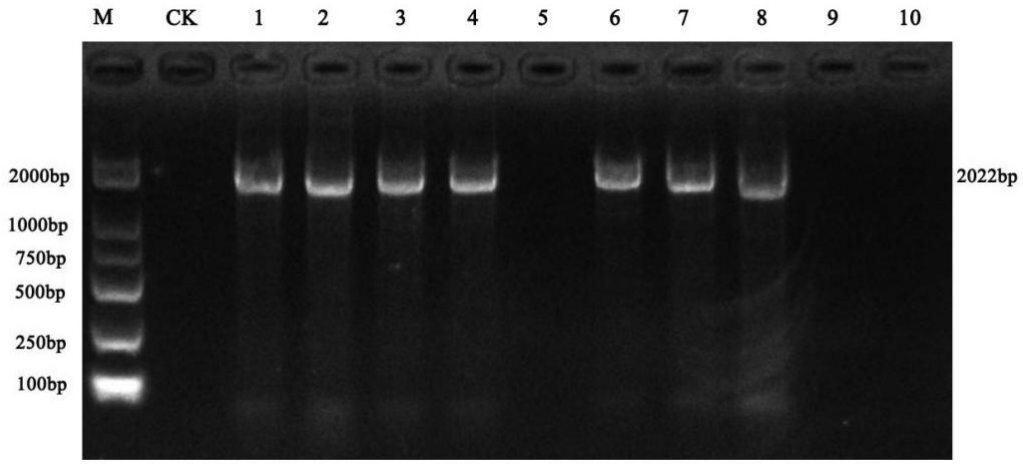


Figure S2. PCR identification of transgenic *A. thaliana* lines.

M：DL2000 DNA Marker; CK Wild type *A. thaliana*; 1-10: Transgenic *A. thaliana*

Table S1. Primer sequences.

Primer name	Primer sequence (5 '- 3')
XsPDAT1-F	ATGTCTTCAATTCGCCGGAG
XsPDAT1-R	TTACAGTTGCAAGTTGATCTTATC
XsPDAT1-e-F	GATTAAAAACATACCCC**GGTACC**ATGTCTTCAATTCGCCGGAGAAAACA
XsPDAT1-e-F	CAAATGTTTGAACGATC**GGATCC**TTACAGTTGCAAGTTGATCTTATCAG
XsPDAT1-q-F	GCTGGACAATGAAACTGG
XsPDAT1-q-R	AAGTAACCTGGAGCAAAG
XsActin-F	TTAAATCCCAAGGCCAACAG
XsActin-R	ACAGCCTGGATAGCGACA
AtActin2-F	GGTATCGCTGACCGTATGAG
AtActin2-R	GCTGAGGGAAGCAAGAATG