

附表 1 引物序列

Table S1 Primer sequences

用途 Use	引物名称 Primer name	引物序列 Primer sequence/5'-3'
基因克隆 Gene cloning	CDS-RcXYNC-F	ATGTTTAAAGAAGCTTGACCAATC
	CDS-RcXYNC-R	TCAAGTATCAATCTGAACTTGAACACTTGC
亚细胞定位 Subcellular localization	1300-RcXYNC-F	TCGACTCTAGCTAGAATGTTTAAAGAAGCTTGACCA
	1300-RcXYNC-R	TACCGGATCCACTAGTAGTATCAATCTGAACTTGAACACTT
	qRT-RcXYNC-F	CTCTGCTTTCGCTACAACACTAC
表达模式 Relative expression level	qRT-RcXYNC-R	GTCCAAATGCTTCCAACCTTC
	UBC-F	GCCAGAGATTGCCCATATGTA
	UBC-R	TCACAGAGTCCTAGCAGCACA
启动子克隆 Promoter sequence cloning	PRO-RcXYNC-F	CACTGTGGATATGTCAGAGAGGAC
	PRO-RcXYNC-R	GTCGTGTAGTTGTAGGCAGAAGCAGAG
瞬时过表达 Transient overexpression	PVX-RcXYNC-F	CACCAGCTAGCATCGATATGTTTAAAGAAGCTTGACCA
	PVX-RcXYNC-R	CTTATCGGCGGTGCGACTCAAGTATCAATCTGAACTTGAACA
基因沉默 VIGS	V-RcXYNC-F	TAAGGTTACCGAATTCGAAGCTTGCACCAATCTATTGC
	V-RcXYNC-R	GCTCGGTACCGATCCCATCACCACCAGTATGCTTTTCG
酵母双杂交 Yeast two-hybrid	BD-RcXYNC-F	CATGGAGGCCGAATTCATGTTTAAAGAAGCTTGACCA
	BD-RcXYNC-R	GCAGGTCGACGGATCCTCAAGTATCAATCTGAACTTGAACA

附表 2 目的基因 CDS 序列克隆所用引物

Table S2 Primers for the CDS sequence cloning of targeted genes

引物名称 Primer name	引物序列 Primer sequence/5'-3'
X01-F	CCACCACAAATCGACGACATGGC
X01-R	CATATTCTACCTTCCATAAGGGTGGTAACGAC
X02-F	CATAGCCTAAACAACACCCTCATCTC
X02-R	ATCATTCCAGGTTTCTCTTCACTTTC
X03-F	CATTAGAGAAGGAGAGGCAAGTGTGATCTCG
X03-R	GGCAAATCCTAATACTTCCAACCTTCTTCTC
X04-F	CGACATTGGACTCCGACGTGCCGATGATC
X04-R	GAACCAGATGAAAGATTCTAGTGACCATAC
X05-F	ATGGCTTCGCCTTTCCTTCTTTC
X05-R	GAATGGACGTATGACTCACCACCGGTCTATG
X06-F	GCAGACCAGGAGTTGAATCAATTAATG
X06-R	GAAGCTATGGTTCATGTCAGATGGTTACATGG
X07-F	GACGGAGCAAACAGACTGGGGATGG
X07-R	GCTTAGGCTAGAACTGGCGTTATCTC
X08-F	CATCTTGCCGCGTCACCAATCCTATG
X08-R	CAAGGACCCTAGTCAAATGCATCATCATC
X09-F	CTTCACTTACAAAGCCACTAGAGC
X09-R	CTAGAAGAACTCTGCGAGGCATGTC
X10-F	CACCACAGAGAAGTGAATCACAAGTG
X10-R	CACAGGAATAATTCTAATCAAGCTGAGC
X11-F	CCGAGAGGGTTGTTGAAGGCGTAAT
X11-R	CCAATGCAGGCAGAGTCACTTAAGCAC
X12-F	GCTTCACTCATCGAACAATGGCGTTC
X12-R	CTAAACAGATGAAACCAAACTC
X13-F	CCAGTTTGCCGAATTTGGTCCTAAAGG
X13-R	CACAAATCTAGGAATAGTCAACCGTTACG
X14-F	CGAAGCAGTAATGGCCTCCTCATGTTCTC
X14-R	GGATGAAACAAATGACTAATGCAATG
X15-F	GTGACGCCGAGCATTGGCTACATGG
X15-R	CTTCAAGTAGTAATGATGGAGGAAGATAG
X16-F	GTTCAATACCAAGTTTCATGCTGAGC
X16-R	CAGACTTGAGTTCCTGCAGCTCAGAAACC
X17-F	CAGAAAATGGCGGTGCGCTCATGAG
X17-R	CGAGATTAGCAACAATCAACAAAGAGG

引物名称 Primer name	引物序列 Primer sequence/5'-3'
X18-F	CTTGACTCCAGGCTGAGGTGTACTCG
X18-R	TATCCCCTAGACCTGCTCGGCTGGCTTC
X19-F	GCACGTTAGCCATGGCCGCCGCTACATC
X19-R	ACTTAACAACAGCACACATGCTCAAGAG
X20-F	CTGGGTTGAGAGTTGAGTGAGAGAACAC
X20-R	GAGGAAGAAGCTAGCAGCTAAGCTAGAC
X21-F	ACCTGTAAAGTGTCAATTCTGAAGGCTCCA
X21-R	CTCCGACGAGAACCTAGCGTTCCAG
X22-F	AGCCGCCGCCATGCAGATCTTCGTGAAAACC
X22-R	GCAATAAACCACTAATCTCTAATCACC
X23-F	TAAGTTTCAGAGTGACTGAGATCG
X23-R	CATAAAGTACACAAGTCCTACCCAT
X24-F	TTACTATGGCTGCTTCCATGGCTCTCTC
X24-R	TCACTTCCGGGGACAAAGTTGGTG
X25-F	ATGGCTGCTTCCACAATGGCCCTCTC
X25-R	CAAGTCTCTTAAAAGCCTCATTCACTTCC
X26-F	ATGTCTCTCACTATTTCCACAAACCTC
X26-R	TTACACGTCCTTGGCAATGAGTTCACC
X27-F	ACTGACAGGTGACATTTACAATCAGTCAAG
X27-R	GGTTTAGAGCTTGTCTCAAAGTCAGAAAGCG
X28-F	CTCCTCAGAGCTAGAACAAGTTGATC
X28-R	CCTCAAGCTCGATTTACGATCCAG
X29-F	ATGGCTACTTTGGCGAACCCGAACGAG
X29-R	CACAAGAGACTAAAAGACTAACGCGCAAC
X30-F	GAAGTGGATGAGGAGCATTAGCCTTCC
X30-R	ACCAATAACTGAAGAACGCAAG
X31-F	ATGAATATCAAAGCAAAGCCCTCTCTC
X31-R	GTGAGATACAAGATCGGACGATACTC
X32-F	CACCAAGCACACAAACTGAAACAG
X32-R	CTTGGTAGTGAAGGTTGATTATGC
X33-F	CTCTCTCACCAATTCTTTGGAC
X33-R	CTTAATTGAACTAGAGGATAGTCCTGAC
X34-F	CAAGTTGATCAAACCATGGCCCTCTG
X34-R	GACGCTTTAGATTGGTTGACC
X35-F	CCACCGCAGATTTCAAGATAATTCTCAATGC
X35-R	TCCCTTGACATTTCCACACAAGAG
X36-F	CTTCCTCTCTCTGAAAATGACTTCG
X36-R	GCAACCAAAACCAGAACTTAG
X37-F	TTATGGCCATTTGTGCAGTCCAC
X37-R	CCAATGCTTCAATTCTAGAGTCCC
X38-F	GCGTCAGAGAGACTGAAAGCAATGGTGTC
X38-R	GAAGACTGCCACAGAATCCAATCCTCCAC
X39-F	GCATTCCCCTTCTTAACTTTCTTCTC
X39-R	TCATCCGATTGGTAGATTAGTAGC
X40-F	CAAGCGAAGATGTCTCGCACGTGCTCAGTGTC
X40-R	TCAAGCAACACTGATGATGCTATCAGTGCCA
X41-F	CCAGAAAGCTCAAAGATGGCGGAACAGACG
X41-R	GACCACCAAAATGCTGTCTAAGCTCCAG

附表 3 pGADT7 重组载体构建所用引物

**Table S3 Primers required for pGADT7 recombinant vector construction**

引物名称 Primer name	引物序列 Primer sequence/5'-3'
X01-PAD-F	GGAGGCCAGTGAATTCATGGCTTCCAAGAAGGGCGA
X01-PAD-R	CGAGCTCGATGGATCCCTACCTTCCATAAGGGTGGTAACGA
X02-PAD-F	GGAGGCCAGTGAATTCATGGCAACCTCTGCTATCCAGC
X02-PAD-R	CGAGCTCGATGGATCCTCACTTCCGGGGACGAAGTTGG
X03-PAD-F	GGAGGCCAGTGAATTCATGGCGCCGAAGCAGAGG

引物名称 Primer name	引物序列 Primer sequence/5'-3'
X03-PAD-R	CGAGCTCGATGGATCCCTAGAAAACAAGCTCATGTGGCTTC
X04-PAD-F	GGAGGCCAGTGAATTCATGATCCCGGTAGGTGAGGG
X04-PAD-R	CGAGCTCGATGGATCCCTAGTGACCATACTTCTGGAActCC
X05-PAD-F	GGAGGCCAGTGAATTCATGGCTTCGCCTTTGCCT
X05-PAD-R	CGAGCTCGATGGATCCCTATGAAAATATGGCATTACAAAA
X06-PAD-F	GGAGGCCAGTGAATTCATGGCTTCTAACACTTTGATGAGCT
X06-PAD-R	CGAGCTCGATGGATCCTCAAATCCCTTTGGGGATAATGACA
X07-PAD-F	GGAGGCCAGTGAATTCATGGAACAGAAAACGACGCGT
X07-PAD-R	CGAGCTCGATGGATCCTTATCTCAAGAAAACCGACGATTCT
X08-PAD-F	GGAGGCCAGTGAATTCATGGCTTTGCCGAACCAACA
X08-PAD-R	CGAGCTCGATGGATCCCTAGTCAAATGCATCATCATCGTTCA
X09-PAD-F	GGAGGCCAGTGAATTCATGGCCACAGCTCAGCTAAC
X09-PAD-R	CGAGCTCGATGGATCCCTAAGAAAAGGATGGCAATGACATC
X10-PAD-F	GGAGGCCAGTGAATTCATGGCAGCCTCTATGCAAGC
X10-PAD-R	CGAGCTCGATGGATCCCTAATCAAGCTGAGCATACCAGACC
X11-PAD-F	GGAGGCCAGTGAATTCATGTCTGGTTTGTCTATGCC
X11-PAD-R	CGAGCTCGATGGATCCTTAAGCACGCTCACCCCTG
X12-PAD-F	GGAGGCCAGTGAATTCATGGCGTTCAACATCAACAGTC
X12-PAD-R	CGAGCTCGATGGATCCCTAAACAGATGAAACCAAACCCTC
X13-PAD-F	GGAGGCCAGTGAATTCATGATCTGTGTTTTAGTGGCACA
X13-PAD-R	CGAGCTCGATGGATCCTCACTCTCGGGGCCTGGC
X14-PAD-F	GGAGGCCAGTGAATTCATGGCCTCCTCCATGTTCTCATCG
X14-PAD-R	CGAGCTCGATGGATCCTTAGAAGCCTGCAGGCTTGTAGG
X16-PAD-F	GGAGGCCAGTGAATTCATGTCTGAGCTCGACGTCCA
X16-PAD-R	CGAGCTCGATGGATCCTCAGAAAACCGTGAATTTGATGTT
X17-PAD-F	GGAGGCCAGTGAATTCATGGCGGTGCGTCTATGAG
X17-PAD-R	CGAGCTCGATGGATCCTCAACAAAAGAGGATTGGTCTCTGC
X18-PAD-F	GGAGGCCAGTGAATTCATGGGATATATAGTGGTGTATCG
X18-PAD-R	CGAGCTCGATGGATCCCTAGACCTGCTCGGCTGG
X19-PAD-F	GGAGGCCAGTGAATTCATGGCCGCCGTACATCC
X19-PAD-R	CGAGCTCGATGGATCCTCAAGAGGAGAAGGCATCGATAATG
X20-PAD-F	GGAGGCCAGTGAATTCATGAGTTTCAGAAGTATGTTGAAAG
X20-PAD-R	CGAGCTCGATGGATCCCTAGACGGGGAGGGCTCTG
X22-PAD-F	GGAGGCCAGTGAATTCATGCAGATCTTCGTGAAAACCC
X22-PAD-R	CGAGCTCGATGGATCCCTAATCACCGCCGGCCTTC
X23-PAD-F	GGAGGCCAGTGAATTCATGGCCGAGAGAGAGAACC
X23-PAD-R	CGAGCTCGATGGATCCTCACTCTGCATCTTACCTCC
X24-PAD-F	GGAGGCCAGTGAATTCATGGCTGCTTCCATGGCTC
X24-PAD-R	CGAGCTCGATGGATCCTCACTTTCCGGGGACAAAAGTTG
X25-PAD-F	GGAGGCCAGTGAATTCATGGCTGCTTCCACAATGGC
X25-PAD-R	CGAGCTCGATGGATCCTCACTTTCCGGGGACAAAAGTTG
X26-PAD-F	GGAGGCCAGTGAATTCATGTCTCTACTATCCCAAAAACC
X26-PAD-R	CGAGCTCGATGGATCCTTACACGTCCTTGGAATGAG
X27-PAD-F	GGAGGCCAGTGAATTCATGGTGAAGTTACTGCAGAAGAG
X27-PAD-R	CGAGCTCGATGGATCCTTAGAGCTTGTCTCAAAGTCAG
X28-PAD-F	GGAGGCCAGTGAATTCATGGCCTCCATGCTTATGGC
X28-PAD-R	CGAGCTCGATGGATCCTTACGATCCAGGCACAAAAGTTG
X29-PAD-F	GGAGGCCAGTGAATTCATGGCTACTTTGGCGAACC
X29-PAD-R	CGAGCTCGATGGATCCTTAAAAGAAAAGCTTTCTTGATAGC
X32-PAD-F	GGAGGCCAGTGAATTCATGTCAGGTATGGAGAGGC
X32-PAD-R	CGAGCTCGATGGATCCCTAGAACACCCACAGTATCAAGC
X33-PAD-F	GGAGGCCAGTGAATTCATGGCATCCTTACAGCTAGC
X33-PAD-R	CGAGCTCGATGGATCCCTAGAGGGATAGTCTGACTCCTCG
X34-PAD-F	GGAGGCCAGTGAATTCATGCTCAACGGGGCCGAG
X34-PAD-R	CGAGCTCGATGGATCCTTAGATTGGTTGACCTTTTGGTAC
X35-PAD-F	GGAGGCCAGTGAATTCATGCTTCTCATACCACTCTCC
X35-PAD-R	CGAGCTCGATGGATCCTTAGTAAGTGACACGTACTCCTTGG
X36-PAD-F	GGAGGCCAGTGAATTCATGACTTCGGCTACCTCC
X36-PAD-R	CGAGCTCGATGGATCCTCAAAGCGCCTTTGTCTTCC

引物名称 Primer name	引物序列 Primer sequence/5'-3'
X37-PAD-F	GGAGGCCAGTGAATTCATGGCCATTTGTGCAGTCCAC
X37-PAD-R	CGAGCTCGATGGATCCCTAAGCTTTTGCTTCTGCTGGTC
X38-PAD-F	GGAGGCCAGTGAATTCATGGTGTCCGGGTCAGGG
X38-PAD-R	CGAGCTCGATGGATCCTCAATATTTGATAGGAGC
X39-PAD-F	GGAGGCCAGTGAATTCATGGCGGCAGCACCAACCA
X39-PAD-R	CGAGCTCGATGGATCCTCATCCGATTGGTAGATTAGTAGCT
X40-PAD-F	GGAGGCCAGTGAATTCATGTCTCGCACGTGCTCTCA
X40-PAD-R	CGAGCTCGATGGATCCTCAAGCAACACTGATGATGCTATC
X41-PAD-F	GGAGGCCAGTGAATTCATGGCGGAACAGACGGAG
X41-PAD-R	CGAGCTCGATGGATCCCTAAGCTCCAGTAAATGCCTTC