

Additional file 7. Multiple Sequence Alignment of Selected *SPL* nucleotide sequences. Multiple sequence alignment was performed using the MUSCLE algorithm (Edgar, 2004).

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OsSPL2      CGGCGTGCTCGGTGGAGGGGTGCGCCGCCGACCTGTCCAAGTGGCTCGACTACCACCGGC
PtSPL1      CCTTTTGCCAGGTCTATGATTGTAACAAGGATCTTAGTTCCCTCCAAGGATTACCACAAGA
PpSPL3      CGCGTTGTCAAGTGCAGGGTTGTGATGCCGACCTGAGCTGTTGCAAAGACTATCACAAC
PpSPL6      CGCGTTGTCAAGTGCAGGGCTGTAAGGCTGATCTAAGTGGTTGCAAAGACTATCACAAGC
PpSPL13     CGCGTTGTCAAGTGGAGGGCTGTAAGGCTGATCTGAGTGGTTGCAAAGATTATCATAAGC
ZmSBP7      CGCGCTGCCGTGGTCGACGGCTGCAACGCGACCTCACCGACGCCAAGACCTACTACTGCC
ZmSBP5      CCCGCTGCCAGGTCGACGGCTGCAACGTTGACCTCACCGACGTCAAGGCCTACTACTGCC
SbSPL5      CGCGCTGCCAGGTCGACGGCTGCAACGTTGACCTCACCGACGTCAAGCCCTACTACTGCC
BdSPL14     CGCGGTGCCAGGTGGAAGGGTGC GAAGTGGATCTCACGGCCTCCAAGGGCTACTACTGCC
OsSPL14     CGCGGTGCCAGGTGGAGGGGTGCGGCGCGGATCTGAGCGGGATCAAGAACTACTACTGCC
BdSPL17     CGAGGTGCCAGGTGGAAGGGTGC GGCGTGGATCTGAGCGGGACAAAGACCTACTACTGCC
ZmSBP1      CGCGGTGCCGGGTGGACGGGTGCGGCGTGGATCTGAGCGCCGTCAAGCAGTACTACTGCC
TSH4       CGAGGTGCCAGGTGGACGGGTGCGGCGTGGATCTGAGCGCCGTCAAGCAGTACTACTGCC
AlSPL      CGAGGTGCCAAGTGGAAAGTTGTAGAAATGGATCTAAGCAATGTAAAAGCTTATTACTCAA
AtSPL15     CGAGGTGCCAAGTGGAAAGTTGTAGAAATGGATCTAAGCAATGTAAAAGCTTATTACTCGA
AtSPL9     CAAGGTGCCAAGTGGAAAGTTGTGGGATGGATCTAACCAATGCAAAAAGTTATTACTCGA
ThSPL      CAAGGTGCCAAGTGGAAAGTTGTGGGATGGATCTAACCAATGCAAAAAGTTATTACTCTA
SlSBP15     CTAGGTGCCAAGTTGAAGGTTGT CAGGCAGATCTGAGTGATGCTAAGGCTTACTATTCTA
MtSPL      CTAGGTGTCAAGTTGAAGGATGTAAACTAGATCTGACTGATGCTAAAGCTTACTATTCTA
MdSPL1     CGCGGTGT CAGGTGGAGGGCTGCGAGGTAGATCTGAGTGGTGCCAAAGCTTACTATTCCA
AmSPL4     CTAGGTGCCAGGTGGAGGGTTGTAAGATAGATCTGAGTGATGCTAAGGCTTATTATTCAA
GmSPL9     CTAGGTGT CAGGTGAGGGCTGCAAAGTAGATCTGAGTGGTGCTAAGGCTTACTATTCTA
PontSPL9   CAAGGTGCCAAGTGGAGGGGTGTAAAGTTGATCTGAGTGATGCCAAAGCTTACTATTCAA
VvSPL9     CGAGGTGTCAAGTTGAAGGGTGTAAAGTAGATCTGAGTGATGCCAAAGCTTACTATTCAA
PtSPL2     CAAGGTGTCAAGTTGAAGGGTGC AAAGTAGATCTGAGTGATGCTAAGACTTACTATTCAA
RcSPL      CTAGGTGTCAAGTTGAAGGGTGTAAAGTTGATCTGAGTGATGCTAAGGCTTACTATTCAA
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OsSPL2      GGCACAAGGTGTGCGAGGCGCACTCCAAGACGGCCGTCGTCACCGTCGCCGGCCAGCAGC
PtSPL1      GGCATAAAGTTTGTGAGGTT CATAACGAAAACCTCCTCAAGTTATTGTTAATGGCAATGAAC
PpSPL3      GTCACAAAGTGTGTGAGATGCACTCCAAAGCGGCCACAGCAATAGCAGCTGGAATTGAGC
PpSPL6      GTCACAAAGTTTGC GAGATGCACTCCAAAGCGCCCAAATGCATTGCAGCTGGGATTGAGC
PpSPL13     GTCACAAAGTGTGTGAGATGCACTCCAAGCGCCCAAATGCATTGCAGCTGGGATTGAGC

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AtSPL15 AAAGGTTTTGTCAACAATGTAGCAGGTTTCACCAGCTTCTGAGTTTGACTTGGAGAAAA
 AtSPL9 AGAGGTTTTGTCAACAGTGCAGCAGGTTTCATCAGCTTCCGGAAATTTGACCTAGAGAAAA
 ThSPL AGAGGTTTTGTCAACAGTGCAGCAGGTTTCATCAGCTTCCGGAGTTTGACCTAGAGAAAA
 SlSBP15 AGAGGTTTTGCCAACAGTGTAGCAGGTTCCACCAATTAAC TGAATTCGACCAGGGGAAAA
 MtSPL AAAGGTTTTGTCAACAATGTAGCAGATTCATCAGCTTGCTGAGTTTGATCAAGGAAAAA
 MdSPL1 AGAGGTTTTGCCAACAGTGTAGCAGGTTTCATTTACTTCCCTGAATTTGATCAAGGAAAAA
 AmSPL4 AAAGGTTTTGCCAGCAGTGCAGCAGGTTTCATCAATTGCCTGAATTTGACCAAGGAAAAA
 GmSPL9 AAAGGTTTTGCCAACAGTGTAGCAGGTTTCATCTGCTTTCTGAATTTGATGAAGGAAAAA
 PontSPL9 AGAGGTTTTGCCAGCAATGTAGCAGATTCATCAGCTTCCGGAGTTTGACCAAGGAAAAA
 VvSPL9 AGAGGTTTTGCCAGCAGTGTAGCAGATTCATCAGCTTGCCGAATTTGACCAAGGAAAAA
 PtSPL2 AAAGTTTTGCCAGCAATGTAGCAGATTCATCTACTTCCCTGAATTTGACCAAGGAAAAA
 RcSPL AAAGTTTTGCCAGCAGTGTAGTAGATTTCACTCAACTTCCCTGAATTTGACCAAGGAAAAA
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OsSPL2 GGAGCTGCAGGAAGCGGCTCGACGGGCACAACAAGCGGCGTCGGAAGCCGCACCTCGTAC
 PtSPL1 GCAGTTGTCGTA AACGCCTGGCAGGCCACAATGAACGCAGACGAAAGCCTCGGGACTTCC
 PpSPL3 GCAGTTGTCGTAGAAGACTAGCAGGTCATAATCAACGGCGACGGAAGTCTCGCATCCTCA
 PpSPL6 GCAGCTGTGCGCAGGAGATTGGCAGGTCACAATGAACGGCGAAGAAAGCCACGCATCGTCA
 PpSPL13 GCAGTTGTCGTAGAAGGCTGGCAGGTCACAATGAGCGGCGCAGGAAGCCTCGCATCGTCA
 ZmSBP7 AAAGCTGTGCGCAAGCGTCTAGCAGGCCACAACGAACGCCGGAGACGGCCACGAAGCTTCA
 ZmSBP5 AGAGCTGCCGCAAACGCCTCGCAGGCCACAACGAGCGCCGGAGGAGGCCCGCAAGCTTCA
 SbSPL5 AAAGCTGCCGAGACGCTCTCGCAGGCCACAATGAACGCCGGAGGAGGCCACGAAGCTTTA
 BdSPL14 GCAGCTGCCGAGACGCCTCGCAGGCCACAATGAGCGCCGAGGAGGCCACGAGGCTATC
 OsSPL14 GCAGCTGCCGAGACGCCTTG CAGGTCATAATGAGCGCCGGAGGAGGCCCGCAAGCTTTA
 BdSPL17 GAAGTTGCCGAGGCGCCTAGCGGGTCACAATGAGCGCCGGAGGAAGCCCCGAAGCTTTC
 ZmSBP1 GAAGCTGCCGCGCCGCCTCATTTGGTCACAACGAGCGCCGGAGGAAGCCACGGAGCTTCC
 TSH4 GTAGCTGCCGCGCCGCCTCATCGGTCACAACGAGCGCCGGAGGAAGCCACGAAGCTTCC
 AlSPL GAAGTTGTCGAGACGACTCGCTTGT CATAACGAACGTGCGAAGAAAGCCACAAAGCGTTT
 AtSPL15 GAAGTTGTCGAGAAAGACTCGCTTGT CATAACGAACGACGAAGAAAACCACAAAGCGTTT
 AtSPL9 GGAGTTGCCGAGGAGACTCGCTGGTCATAATGAGCGACGAAGGAAGCCACGAAGCTTTC
 ThSPL GAAGTTGCCGTAGGAGACTCGCTGGCCATAATGAGCGTCGGAGAAAGCCACGGAGCTTTC
 SlSBP15 GGAGTTGCCGAGGAGACTGGCATGCCATAATGAGCGTCGTAGGAAGCCTCGAAGCTTTC
 MtSPL GAAGTTGTCGGAGACGACTAGCTGGTCATAATGAGCGTCGCAGAAAAGCCCCGAGCTTTT
 MdSPL1 GTAGTTGTCGTAGACGCTTGGCTGGGCATAATGAGCGTCGTAGAAAACCACGAAGCTTTC
 AmSPL4 GAAGTTGCCGAGACGCCTTGCTGGCCACAATGAGCGTCGGAGGAAGCCGCGAGGCTTCG
 GmSPL9 GAAGCTGCCGAGGCGACTTGCTGGTCATAATGAGCGCCGACGAAAGCCCCGTGGCTTTC
 PontSPL9 GAAGTTGCCGAGGCGCCTGGCAGGCCATAATGAGCGCCGGAGGAAGCCAAGAGGATTTTC

VvSPL9 GAAGTTGTCGTAGGCGCCTGGCTGGTCATAATGAGCGTCGCAGGAAGCCACGAGGCTTTC
 PtSPL2 GAAGTTGCCGACGGCGCCTAGCTGGCCATAATGAGCGACGGAGGAAGCCACGAGGCTTTC
 RcSPL GAAGTTGTCGCAGACGCCTAGCAGGTATAATGAGCGACGGAGGAAGCCACGAGGCTTTC
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OsSPL2 CAACTGTGCTCTCTCTTTCTGTCACTTTCTCATCGT
 PtSPL1 TAGCTGTGCTCTCTCTTTCTGTCAACTACTCTCTTT
 PpSPL3 CGGCCGTGCTCTCTCTTTCTGTCAAACAATCAATCT
 PpSPL6 TGGTCGTGCTCTCTCTTTCTGTCAAACAATCGATCT
 PpSPL13 TGGCCGTGCTCTCTCTTTCTGTCAAACAATCGACCT
 ZmSBP7 TAGCTGTGCTCTCTCTTTCTGTCAAGTGGTCGCTCT
 ZmSBP5 TAGCTGTGCTCTCTCTTTCTGTCAACTGGTCGCTCT
 SbSPL5 TAGCTGTGCTCTCTCTTTCTGTCAACTGGTCACTCT
 BdSPL14 TAGCTGTGCTCTCTCTTTCTGTCAACTGGTCTCAGT
 OsSPL14 CAGCTGTGCTCTCTCTTTCTGTCAAATGGTCTCTGT
 BdSPL17 TAGCTGTGCTCTCTCTTTCTGTCAACTGGTCTCTGT
 ZmSBP1 TAGCTGTGCTCTCTCTTTCTGTCAAATGGTCCCTGT
 TSH4 TAGCTGTGCTCTCTCTTTCTGTCAACTGGTCCCTGT
 ALSPL TAGCTGTGCTCTCTCTTTCTGTCAAATGGTCTCTTT
 AtSPL15 TAGCTGTGCTCTCTCTTTCTGTCAAATGGTCTCTTT
 AtSPL9 TAACTGTGCTCTCTCTTTCTGTCAACTGGTCTCTCT
 ThSPL TAACTGTGCTCTCTCTTTCTGTCAACTGGTCTCTCT
 SlSBP15 TAGTGGTGTCTCTCTTTCTGTCAACTGGACTCTTT
 MtSPL TAACTGTGCTCTCTCTTTCTGTCAAGTGGTCACTGT
 MdSPL1 TAGCTGTGCTCTCTCTTTCTGTCAACTGGTCACTTT
 AmSPL4 TAGCGGTGCTCTCTCTTTCTGTCAACTGGTCCCTAT
 GmSPL9 TAACTGTGCTCTCTCTTTCTGTCAACTGGTCTCTTT
 PontSPL9 TAACTGTGCTCTCTCTTTCTGTCAAATGGTCCCTTT
 VvSPL9 TAGCTGTGCTCTCTCTTTCTGTCAACTGGTCACTTT
 PtSPL2 TAGCTGTGCTCTCTCTTTCTGTCAACTGGTCACTTT
 RcSPL TTCCTGTGCTCTCTCTTTCTGTCAACTGGTCGCTTT
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