

Supplemental Figure 2

>Potri.018G050100-PtEXT1

MDLLHSVMLYFSLALLSSSEATDITFSRNSALWLTYKSPPPP FHNKHKSPPPPHKYKSPPPPHHKCKYSPPPPV
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>Potri.001G019700-PtEXT2

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>Potri.001G122100-PtEXT3

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DFKCPS

>Potri.001G259600-PtEXT4

(MASPSRRHLVHANVFGLLA) INVAANIYDNEEPPRPPHDHEDPPLPYNHKNLSFLPSGLLHRGT P P P P P R S P P P P N
KKKT P P P P P K K K K T Q S P P P P A K S P P P P P A K S P P L P S A S P P T S S S A P I L P P L P S K I S P V T P P S K V P P S P S P A S N L S P
S P P Y T S P A S P P R I P P I P S P S P T P N L S P S H P Y T P P T S S P K V S P S P S P T P N L S P S H P Y T P P T S P P R I S P I P S L S L T P N L
S P L H P Y T P P T S S P K V S R F P S P S P T P N S S P S H P Y T P P T S P P R I S P I P S P S P S P T P N L S P S H P Y T P P T S S P K V S P P P
S P T P N L S P S H P Y T P P T S P P R I S P I P S P S P S P T P N L S P S H P Y T P P T S S P K V S P S P S P T P N L S P S H P Y T P P T S P P R I
S P I P S P S P S P T P N L S P S H P Y T P P T F P P K I S P I P S P P Y T S P P P P P I L K S P P P P R F T L P P F F H F K S P P P P S P S P P P
P F L K S P P P P R F T L P P L F H F K S P P P P S P S P P P I L K S P P P P R L Y M V N D G S G F L R R D L H I I

>Potri.001G020100-PtEXT5

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>Potri.001G019900-PtEXT6

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>Potri.001G260200-PtEXT7

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S P P P P I L K S P P P P R F T F P P F F P F K S L P P P S P S P P P H I L K S P L P P W F F L P P F F F K S P P P L S P S P P S N N

>Potri.001G020000-PtEXT8

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S P P P P K K S P P P P Y H Y S S P P P P K K S P P P P Y H Y S S P P P P K K S P P P P Y H Y S S P P P P K K S P P P P Y H Y S Y P P P P K K S P P P P Y
H Y T S P P P P K K S P P P P Y H Y S S P P P P K K S P P P P Y H Y S S P P P P K K S P P P P Y H Y S Y P P P P K K S P P P P Y H Y T S P P P P K K S P P
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>Potri.010G001200-PtEXT9

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>Potri.010G113300-PtEXT10

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>Potri.T091000-PtEXT11

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>Potri.013G045700-PtEXT12

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>Potri.006G225400-PtEXT14

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>Potri.002G070100-PtEXT15

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>Potri.019G015900-PtEXT16

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>Potri.019G015800-PtEXT17

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>Potri.019G016000-PtEXT18

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>Potri.019G017300-PtEXT19

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>Potri.005G190100-PtEXT20

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>Potri.014G124700-PtEXT21

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>Potri.T082000-PtEXT22

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>Potri.008G129100-PtEXT23

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Y P P P P P A P V L P P P T P K K P P S G Y N C P P P P A P S K Y D L Y I T G P P G E L Y P V D K D V N A A S R H A V S L Q V L I G C G L I G L L V R I G
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>Potri.008G213600-PtEXT24

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S P G V G F Y Y S P P P P P P S T Y T Y S S P P P P Q D G V I G G T Y Y P P P N Y K N Y P T P P P P N I V P Y F P F Y Y Y I P P P P S T S A S F K L I
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>Potri.008G125400-PtEXT25

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S H S

>Potri.001G169200-PtEXT26

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P P P P R K K L Q L P P P P R H R L T V N E N R R R R K P P P P M K N N M N A G K A I G L L F V G I A A I L Q I G V V W F L V Y K R R Q L

>Potri.001G042200-PtEXT27

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Q S P K I D P P I G Q V T T S N G R T T P S P P P P K P A S P E G E L K I G S P C T D G T P C N D G Y I S M I T N F E R P L P S S P P P P D P A T P I S H
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>Potri.T179500-PtEXT28

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S P P P Q S P K A D P S S G Q V T P S Y G R T M A S P P P P P K P A S P K A Q L E I G S Q C T D G C I S M I T N L E R P I P S S P P S P K P A P S S Q I
T F D L E P K V H A R I S P P G Q N V F S T

>Potri.T101300-PtEXT29

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P P P P T P P D S G T N L H P P P P P P T P P D I G T N L P P P P P P P L L L S P P P P A V P A V T G A P P S N N P S S T V L V T P G P V H A

>Potri.T139000-PtEXT33

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>Potri.009G108100-PtLRX1

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A W K K A M Y S D P F N T T G N W V G A D V C A Y N G V F C A P A L D D S G L S V M A G V D L N G A D I A G Y L P A E L G L L T D V A L F H I N S N R F C
G I I P K S F S K L T L M Y E F D V S N N R F V G D F P S V V L T L P S L K Y L D I R F N D F E G S L P P E L F N K D L D A L F L N D N R F T S T I P E T
I G N S P V S V V T F A N N K F T G C I P H S I G K M T N L N E V I F M G N D L G G C F P A E I G L L G N V T V F D A S H N G F T G I L P S S F A G L K K
V E L L D L A D N K L T G F V P E N I C R L S S L T N F T F S Y N Y F K G E A Q A C V P P S R K D T V P K Q K S A R T C Y P V V S R P V D C S K D K C S G
G G G S N P H P K P Q P T P P T P E H K Q T P S P P K S T S T P T P S S P I P A P R T P E L P K P E P K L P L A P V E P I S P S T P E V S L P P S L S I
S P S T P E I S S P P S S S S P S T P S S D P Y N P G P G G H D E T P P S P K S A P S P N P F N N S P V G H N E T P P S P E S A P S P D P F N N S P D G H
N E T P L S P E S A P S P N P F N N S P D G H D E T P L S P E S A P S Q S P E S A P S P D P F N N S P D G H D E T P Q S S E S A L S P D P F N N S P D G H
D E I P P S P E P S P D P F N N S P N G H D E T P T S P E S A Q S P D P F N N S P I G H D K T P P P S S E I S I P P S P L I S P P T S E K H I P P S S E F
A P S P D S Y N L R P V H S P P P S S Q S L P P L V Y S L P P A H S P P P S I H F P P P P V H S P P P P P V Y S P P L P V H S P P P S V H S P P P P M H
S P P P P P V Y S P P P P V Q S F P P P P V H S P P P P V H S P P P P V Y S P P P P V H S P P P P V Y S P P P P L V Q S P P P P V H S P P P P L H S P P P P
P V Y S P P P P V H S P P P P V H S P P P P I Q S P P P P V H S P P P P I H S P P P P V Q S L P P P P V N S P L P P V H S P P P P V H S P T S P I H S H
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>Potri.004G146400-PtLRX2

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A W K K A I Y S D P F N T T G N W V G A N V C A Y N G V F C A P A L D D P S L S V V A G V D L N G A D I A G H L P A E L G L M T D V A L F H I N S N R F C
G I I P E S F S K L T L M Y E F D V S N N R F V G D F P S V V L S W P S L K Y L D V R F N D F E G S L P P E L F N K E L D A L F L N D N R F T S T I P E T
I G N S A V S V V T F A N N K F T G C I P H S V G K M A N L N E V I F M G N D L G G C F P A E I G L L R N V T V F D A S H N G F T G I L P P S F A G L K K
V E L L D L A D N K L T G F V P E N I C K L P S L T N F T F S Y N Y F K G E A Q A C V P P S R K D I V L D D T S N C L S D R P K Q K S A R T C Y P V V S R

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>Potri.009G115200-PtPERK4

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>Potri.004G153600-PtPERK5

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>Potri.004G105200-PtPERK6

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>Potri.006G242800-PtPERK7

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>Potri.018G081300-PtPERK8

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>Potri.007G027000-PtPERK9

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TRLRIALGS AKGLAYLHEDCHPRI IHRDIKAANILIDNNFEAMVADFLAKLSSDNYTHVSTRVMGTFGYL**AP**EYAA
SGKLTEKSDVFSYGVMLLELITGKKPVDPSAMEDSLVDWARPLTISALETGNFIELVDPMLESKYNHQEMQRMIA
AAASIRHSARKRPKMSQIVRALEGDVLLDVLNEGTRSTGQ**SP**MFSSSSNGSSDYDTNSYNADMKRFRQVALGSQGFSG
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>Potri.005G124400-PtPERK10

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L**SPPPPP**PPPPPPPPPPNSSNSGGSSDQMKIVVGVA VGVGIFLIAMIFICAYCSRKKRKNMHYYGENPQGGSEQF
SYNS**SP**QQSNWHNGLPTEHGMKLSQ**SP**GPMPGSGW**PAP**PPPMNSSDMSSNYSGPYRPPLPPP**SP**NIALGFNKSTFTYD
ELAAATNGFDQANLLGQGGFGYVHKGVL PNGKDIAVKSLKLGSGQGEREFQAEVDII SRVHHRHLVSLVGYCIAGGQ
RMLVYEF**VP**NKLTLEHHLHGKGLPVMWDPTRLRIALGS AKGLAYLHEDCHPRI IHRDIKAANILIDNNFEAMVADFL
AKLSSDNYTHVSTRVMGTFGYL**AP**EYASSGKLTDKSDVFSYGVMLLELITGKKPVDPSAMEDSLVDWARPLMITSL
DTGNYNELVDPMLENNYHQEMQRMIAAAASIRHSARKRPKMSQVARALEGDVLLDDLNEGTPGQSSVFSGSNGS
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>Potri.008G189700-PtPERK11

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PPPAEFKP**LS****SP**PI SNV**SP**KTLDSNPNPSNSGR**VP**TDSRFH**SP****VP**GASPSDHPSSTSTDATNHN**VP**RT**TP**PAPGNES
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SYHLQ**SA**PESEHGSQRGNMYNGG**GPS**DSDVIGTGKTFFSYHELMEITSGFARQNI IEGGGFCVYKGCMDGKVVAVK
QLKAGSQGDREFKAQEVEII SRVHHRHLVSLVGYCISDNQRLLIYEF**VP**NKLTLENHLHGKELPVLDPKRLKIAIGS
AKGLAYLHEDCHPKI IHRDIKSANILLDDAFEQAQLRLSMLDLSQNVADFLARLNDTTQTHVSTRVMGTFGYL**AP**
EYASSGKLTDRSDVFSFGVLLLELITGRKPVDASQPLGDESLVEWARPLLIHALETGELGELVDTRLEKHYVESELF
RMVETAAACVRHL**AP**KRPRMMQVVRALDSGGELSDLSNGVKFGQSTAYDSGQYNQEI SNFRRMALVSNGSSEFDTFS
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>Potri.008G111600-PtPERK12

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GAAIGIIMLILVGLALWCMRQ**RKE**ISGLNGVYVMPSSLGSS**SP**RSGSTFTKTQST**AP**LIASGSSSDCFSLPPESSGL
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LVGYCISETRLLV**YDY**VPNNTLHFHLHEVGR**PA**LWDWATRVKIAAGAARGLAYLHEDCHPRI IHRDIKSSNILLDIN
FEAKVSDFLAKLALDTNTHVTTRVMGTFGYM**AP**EYASSGKLTDKSDVFSYGVVLELITGRKPVDASQPVGDESLV
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SELFNSAQQSEIIRLFRMAFGSQNYSTDF**SP**DT

>Potri.003G103800-PtFH1

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ILMLNSDNLDILWDSKERYPKGFRAEVLFGEVESIS**SP**K**AP**TTILNGEEKGLPIEAFSRVQELFSGVEWVDSDDA
ALWLLKQLSVIDAREFSRMQNQVSSYAS**SP**VDSSEENNASSTADSSDEAFDYVSKSTAEGMKPLMSNTVES**VP**PSAE
SNDPQDLDLPTDPLPQVSVKG**VP**PSLHQQLSVAGVGTLT**SP**CPPQPPPPPPFART**TP**PPPPPPPHPPSI SNQ**SPL**SVA
APLDPYPPPHPL**PP****SPP**RPSTTTSSNSK**SPPPPP**PPPLSNVSSGDLSTAS**VP**TSKRDI PPPPCPPPPPNFFNKDAS

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>Potri.009G145700-PtEXT30

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>Potri.014G115700-PtEXT31

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>Potri.011G066900-PtEXT32

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>Potri.004G024500-PtAEH1

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>Potri.004G024800-PtAEH2

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>Potri.003G082300-PtAEH3

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>Potri.003G184500-PtAEH4

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