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AmTr_v1.0_scaffold00148.15	NIEPKQIKVW	FQNRRCREKQ	RKEASRLQTV	NRKLTAMNKL	LMEENDRLOK
AmTr_v1.0_scaffold00056.60	NIEPKQIKVW	FQNRRCREKQ	RKEASRLQAV	NRKLTAMNKL	LMEENDRLOK
AmTr_v1.0_scaffold00155.45	NIEPKQIKVW	FQNRRCREKQ	RKEASRLQTV	NRKLTAMNKL	LMEENDRLOK
Ara_thaPHABULOSA	NIEPKQIKVW	FQNRRCREKQ	RKEAARLQTV	NRKLNAMNKL	LMEENDRLOK
Ara_thaATHB15	NIEPKQIKVW	FQNRRCREKQ	RKEASRLQAV	NRKLTAMNKL	LMEENDRLOK
Ara-thaPHAVOLUTA	NIEPRQIKVW	FQNRRCREKQ	RKEASRLQTV	NRKLSAMNKL	LMEENDRLOK
Ara_thaATHB8	NIEPKQIKVW	FQNRRCREKQ	RKEASRLQAV	NRKLTAMNKL	LMEENDRLOK
Ara_thaREVOLUTA	NIEPKQIKVW	FQNRRCDRKQ	RKEASRLQSV	NRKLSAMNKL	LMEENDRLOK
Vit_vinHOX32-like	NIEPKQIKVW	FQNRRCREKQ	RKEASRLQTV	NRKLTAMNKL	LMEENDRLOK
The_cacXP_007022870.1	NIEPKQIKVW	FQNRRCREKQ	RKEASRLQTV	NRKLSAMNKL	LMEENDRLOK
Ory_satHOX32	NIEPKQIKVW	FQNRRCREKQ	RKEASRLQTV	NRKLTAMNKL	LMEENDRLOK
Pru_perppa001343mg	NIEPKQIKVW	FQNRRCREKQ	RKESSRLQTV	NRKLTAMNKL	LMEENDRLOK
Bra_disHOX32-like	NIEPKQIKVW	FQNRRCREKQ	RKEASRLQTV	NRKLSAMNKL	LMEENDRLOK
Pop_triPHABULOSA	NIEPKQIKVW	FQNRRCREKQ	RKEASRLQTV	NRKLTAMNKL	LMEENDRLOK
Pop_triPHABULOSAb	NIEPKQIKVW	FQNRRCREKQ	RKESSRLQTV	NRKLTAMNKL	LMEENDRLOK
Fra_vesHOX32-like	NIEPKQIKVW	FQNRRCREKQ	RKESSRLTTV	NRKLSAMNKL	LMEENDRLOK
Gly_maxATHB-14-like	NIEPKQIKVW	FQNRRCREKQ	RKEASRLQTV	NRKLTAMNKL	LMEENDRLOK
Gly_maxREVOLUTA-like	NIEPKQIKVW	FQNRRCREKQ	RKEASRLQTV	NRKLTAMNKL	LMEENDRLOK
Gly_maxREVOLUTA-likeb	NIEPKQIKVW	FQNRRCREKQ	RKEASRLQTV	NRKLTAMNKL	LMEENDRLOK
Pru_perREV_IFL1	NIEPRQIKVW	FQNRRCREKQ	RKESSRLQTV	NRKLTAMNKL	LMEENDRLOK
Ory_satHOX33	NIEPKQIKVW	FQNRRCREKQ	RKEASRLQTV	NRKLNAMNKL	LMEENDRLOK
Sol_tubATHB-14-like	NIEPKQIKVW	FQNRRCREKQ	RKEASRLQTV	NRKLSAMNKL	LMEENDRLOK
The_cacXP_007022872.1	NIEPKQIKVW	FQNRRCREKQ	RKEASRLQTV	NRKLSAMNKL	LMEENDRLOK
Ory_satHOX33-like	NIEPKQIKVW	FQNRRCREKQ	RKEASRLQTV	NRKLNAMNKL	LMEENDRLOK
Sol_lycREVOLUTA-like	NIEPKQIKVW	FQNRRCREKQ	RKESSRLQTV	NRKLSAMNKL	LMEENDRLOK
Sol_lycHOX32-like	NIEPKQIKVW	FQNRRCREKQ	RKEASRLQTV	NRKLSAMNKL	LMEENDRLOK
Gly_maxATHB-14-likeb	NIEPKQIKVW	FQNRRCREKQ	RKEASRLQTV	NRKLSAMNKL	LMEENDRLOK
Pop_triXP_006378973.1	NIEPKQIKVW	FQNRRCREKQ	RKESSRLQTV	NRKLTAMNKL	LMEENDRLOK
Ory_satACA64837.1	NIEPKQIKVW	FQNRRCREKQ	RKEASRLQTV	NRKLNAMNKL	LMEENDRLOK
Vit_vin013992	NIEPKQIKVW	FQNRRCREKQ	RKEASRLQTV	NRKLTAMNKL	LMEENDRLOK
Ory_satOsJ_11861	NIEPKQIKVW	FQNRRCREKQ	RKEASRLQTV	NRKLTAMNKL	LMEENDRLOK
Sol_tubREVOLUTA-like	NIEPKQIKVW	FQNRRCREKQ	RKESSRLQTV	NRKLSAMNKL	LMEENDRLOK
Gly_maxATHB-14-likec	NIEPKQIKVW	FQNRRCREKQ	RKEASRLQTV	NRKLSAMNKL	LMEENDRLOK
The_cacXP_007024277.1	NIEPKQIKVW	FQNRRCREKQ	RKEASRLQAV	NRKLTAMNKL	LMEENDRLOK
Vit_vinATHB-15-like	NIEPKQIKVW	FQNRRCREKQ	RKEASRLQAV	NRKLTAMNKL	LMEENDRLOK
Ric_comXP_002515977.1	NIEPKQIKVW	FQNRRCREKQ	RKEASRLQAV	NRKLTAMNKL	LMEENDRLOK
The_cacXP_007016751.1	NIEPKQIKVW	FQNRRCREKQ	RKEASRLQTV	NRKLTAMNKL	LMEENDRLOK
Sol_tubHOX32-like	NIEPKQIKVW	FQNRRCREKQ	RKEASRLQTV	NRKLSAMNKL	LMEENDRLOK
Sol_lycATHB-14-like	NIDPKQIKVW	FQNRRCREKQ	RKEASHLQTV	NRKLTAMNKL	LMEENDRLOK
Sol_tubATHB-14-like_X1	NIDPKQIKVW	FQNRRCREKQ	RKEASHLQTV	NRKLTAMNKL	LMEENDRLOK
Med_truATHB-14	NIEPKQIKVW	FQNR-----	-----SFLHLL	VIV-----VT	
Zea_mayNP_001142394.1	NIEPKQIKVW	FQNRRCREKQ	RKESSRLQTV	NRKLSAMNKL	LMEENDRLOK
Vit_vinREVOLUTA	NIEPKQIKVW	FQNRRCREKQ	RKEASRLQTV	NRKLTAMNKL	LMEENDRLOK
Ory_braHOX32-like	FYLTRLMLTW	DAICLCREKQ	RKEASRLQTV	NRKLTAMNKL	LMEENDRLOK
Ric_comXP_002529946.1	NIEPKQIKVW	FQNRRCREKQ	RKESSRLQTV	NRKLTAMNKL	LMEENDRLOK
Tha_cacXP_007016749.1	NIEPKQIKVW	FQNRRCREKQ	RKEASRLQTV	NRKLTAMNKL	LMEENDRLOK
Fra_vesREVOLUTA-like	NIEPKQIKVW	FQNRRCREKQ	RKESSRLQTV	NRKLSAMNKL	LMEENDRLOK
Zea_mayNP_001146215.1	NVEPRQIKVW	FQNRRCREKQ	RRESSRLQTV	NRKLGAMNKL	LMEENDRLOK
The_cacXP_007012152.1	NIEPKQIKVW	FQNRRCREKQ	RKEASRLQAV	NRKLTAMNKL	LMEENDRLOK
Pru_perppa001386mg	NIEPKQIKVW	FQNRRCREKQ	RKEASRLQTV	NRKLTAMNKL	LMEENDRLOK
Pop_triAAX19057.1	HIEPKQIKVW	FQNRRCREKQ	RKEASRLQAV	NRKLTAMNKL	LMEENDRLOK
Pop_triXP_002309538.2	HIEPKQIKVW	FQNRRCREKQ	RKEASRLQAV	NRKLTAMNKL	LMEENDRLOK
Fra_vesATHB-8-like	HIEPKQIKVW	FQNRRCREKQ	RKEASRLQAV	NRKLTAMNKL	LMEENDRLOK
Pop_triXP_002324794.1	HIEPKQIKVW	FQNRRCREKQ	RKEASRLQTV	NRKLTAMNKL	LMEENDRLOK
Vit_vin009744	HIEPKQIKVW	FQNRRCREKQ	RKEASRLQAV	NRKLTAMNKL	LMEENDRLOK
Gly_maxATHB-8-like	HIEPKQIKVW	FQNRRCREKQ	RKEASRLQAV	NRKLTAMNKL	LMEENDRLOK
Sol_lycATHB-15-like	HIEPKQIKVW	FQNRRCREKQ	RKESSRLQGV	NRKLTAMNKL	LMEENDRLOK
Gly_maxATHB-8-likeb	HIEPKQIKVW	FQNRRCREKQ	RKEASRLQAV	NRKLTAMNKL	LMEENDRLOK
Med_truXP_003603630.1	HIEPKQIKVW	FQNRRCREKQ	RKEAGRLQAV	NRKLTAMNKL	LMEENDRLOK

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AmTr_v1.0_scaffold00148.15	QVAQLVYENG	YMRQQLQN--	-VSVATTD-	-TSCESVVTSQ	PQQQ--NPTP
AmTr_v1.0_scaffold00056.60	QVSQLVYENG	YFRQQQTQN-	-VAIATTTD-	-TSCESVVTSQ	QH----HLTP
AmTr_v1.0_scaffold00155.45	QVSQLVYENG	YMKQQLQT-	-ASVATTD-	-TSCESVVTSQ	QHQQQLNPNP
Ara_thaPHABULOSA	QVSNLVYENG	HMKHQLHT-	-ASGTTTD-	-NSCESVVMSG	QHQQQQNPLAS
Ara_thaATHB15	QVSQLVHENs	YFRQHTPN-	-PSLPAKD-	-TSCESVVTSQ	QH----QLAS
Ara-thaPHAVOLUTA	QVSNLVYENG	FMKHRHIHT-	-ASGTTTD-	-NSCESVVMSG	QQRQQQNPTH
Ara_thaATHB8	QVSHLVYENS	YFRQHPQN-	-QGNLATTD-	-TSCESVVTSQ	QH----HLTP
Ara_thaREVOLUTA	QVSQLVCENG	YMKQQLTT-	-VVND-	-PSCESVVTSQ	-TP
Vit_vinHOX32-like	QVSQLVYENG	YMRQQLQS-	-ASTATTD-	-TSCESVVMSG	QHQQQQNPTP
The_cacXP_007022870.1	QVSQLVYENG	YMRQQLQT-	-GSATTTD-	-NSCESVVMSG	QHQQQQNPTP
Ory_satHOX32	QVSRLVYENG	YMRQQLHN-	-PSVATTD-	-TSCESVVTSQ	QHHQQQNPA
Pru_perppa001343mg	QVSHLVYENG	FMRQQLHS-	-ASGTTTD-	-NSCESVVMSG	QHQQQQNPTP
Bra_disHOX32-like	QVSRLVYENG	YMRTHLSN-	-PSVATTD-	-TSCESVVTSQ	QHQQQQNPAV
Pop_triPHABULOSA	QVSHLVYENG	FMRQQIQT-	-ASATTTD-	-NSCESVVMSG	QHQQQQNPTP
Pop_triPHABULOSAb	QVSHLVYENG	YMRQQIQT-	-ASATATD-	-NSCESVVMSG	QHQQQQNPTP
Fra_vesHOX32-like	QVSHLVYENG	FMKNKLHS-	-ASGTTTD-	-TSCESVVMSG	QHQQQHNPTP
Gly_maxATHB-14-like	QVSHLVYENG	YMKQQIHT-	-ASAGTTTD-	-NSCESVVMSG	QNQQQ--NPTP
Gly_maxREVOLUTA-like	QVSQLVCENG	FMRQQLHT-	-PSATTTD-	-ASCDSVVT-	-TP
Gly_maxREVOLUTA-likeb	QVSQLVCENG	FMRQQLHT-	-PSAATT	-ASCDSVVT-	-TP
Pru_perREV_IFL1	QVSQLVCENG	FMRQQLHT-	-APTTD-	-ASCDSVVT-	-TP
Ory_satHOX33	QVSRLVYENG	YMRQQLHN-	-PSAATT	-TSCESVVTSQ	QHHQQQNPAV
Sol_tubATHB-14-like	QVSQLVYENG	YMKQQINT-	-VSSTTTD-	-TSCESVVMSG	QQQRK--NPTP
The_cacXP_007022872.1	QVSQLVYENG	YMRQQLQT-	-GSATTTD-	-NSCESVVMSG	QHQQQQNPTP
Ory_satHOX33-like	QVSRLVYENG	YMRTQLHN-	-PSAATT	-TSCESVVTSQ	QHQQQ--NPAV
Sol_lycREVOLUTA-like	QVSQLVCENG	YMRQQLQS-	-VSAATT	-VSCESVVT-	-TP
Sol_lycHOX32-like	QVSQLVYENG	YMKQQINT-	-VSSTTTD-	-TSCESVVMSG	QQQRK--NPTP
Gly_maxATHB-14-likeb	QVSQLVYDNG	FMKQOIHIT-	-ASATTTD-	-NSCESVVMSG	QRQHQ--NPKI
Pop_triXP_006378973.1	QVSQLVCENG	FMOQQQLQT-	-APAAAD-	-ASCDSAVT-	-TP
Ory_satAC64837.1	QVSRLVYENG	YMRTQLHN-	-PSAATT	-TSCESVVTSQ	QHHQQQNPAV
Vit_vin013992	QVSQLVCENG	YMRQQLQT-	-ASAATT	-ASCESVVT-	-TP
Ory_satOsJ_11861	QVSRLVYENG	YMRQQLHN-	-PSVATT	-TSCESVVTSQ	QHHQQQNPA
Sol_tubREVOLUTA-like	QVSQLVCENG	YMRQQLQS-	-VSAATT	-VS CESVVT-	-TP
Gly_maxATHB-14-likec	QVSQLVYDNG	FMKQQIHTAS-	-ATTTTTD-	-NSCESVVMSG	QHQPO--NPKT
The_cacXP_007024277.1	QVSQLVYENG	YFRQHTQN-	-ATLATKD-	-PSCESVVTSG	QH----HVTP
Vit_vinATHB-15-like	QVSQLVYENG	YFRQHTQN-	-TTLATKD-	-TSCESVVTSQ	QH----HLTP
Ric_comXP_002515977.1	QVSQLVYENG	YFRQHTQN-	-TTLATKD-	-TSCDSVVTSQ	QH----HLTP
The_cacXP_007016751.1	QVSQLVCENG	YMRQQLHT-	-VNASAATD-	-ASCDSVVT-	-TP
Sol_tubHOX32-like	QVSQLVYENG	YMKQQINT-	-VSSTTTD-	-TSCESVVMSG	QQQRK--NPTP
Sol_lycATHB-14-like	QVSQLVYENG	HVSHLVYDNG	-VNSTTTD-	-TCCESVVMSG	QQQQQ--NPMP
Sol_tubATHB-14-like_X1	QVSQLVYENG	FMRQQLHT-	-QVNSTTTD-	-TCCESVVSD-	QQQQQ--NPPI
Med_truATHB-14	QVSHLVYENG	YMKQQIHTVS-	-ASAATT	-NSCDSVVMSG	QNQQQ--NPTP
Zea_mayNP_001142394.1	QVSRLVFDNG	YMKNRLHS-	-PSVATT	-TSCESVVTSQ	QHNQQQNPAV
Vit_vinREVOLUTA	QVSQLVCENG	YMRQQLQT-	-VSAATT	-ASCESVVT-	-TP
Ory_braHOX32-like	QVSRLVYENG	YMRQQLHN-	-PSVATT	-TSCESVVTSQ	QHHQQQNPA
Ric_comXP_002529946.1	QVSQLVCENG	YMRQQLQT-	-ASAATT	-ASCDSVVT-	-TP
Tha_cacXP_007016749.1	QVSQLVCENG	YMRQQLHT-	-VNASAATD-	-ASCDSVVT-	-TP
Fra_vesREVOLUTA-like	QVSQLVCENG	YMRQQLHT-	-APATT	-ASCDSVVT-	-TP
Zea_mayNP_001146215.1	QVSRLVFDNG	YMKNRLHS-	-PSVATT	-TSCESVVTSQ	QHKQQQNPAV
The_cacXP_007012152.1	QVSQLVYENS	YFRQQQTQN-	-ATLATTD-	-TSCESVVTSQ	QH----HLTP
Pru_perppa001386mg	QVSQLVYENS	YFRQQQTQN-	-TNLATTD-	-TSCESVVTSQ	QH----HLTP
Pop_triAAX19057.1	QVSQLVYENS	YFRQQQTQN-	-ATNLATTD-	-TSCESVVTSQ	QH----HLTP
Pop_triXP_002309538.2	QVSQLVYENS	YFRQQQTQN-	-ATNLATTD-	-TSCESVVTSQ	QH----HLTP
Fra_vesATHB-8-like	QVSHLVYENS	YFRQQQTQN-	-TTLATTD-	-TSCESVVTSQ	QH----HLTP
Pop_triXP_002324794.1	QVSQLVYENS	YFRQQQTQN-	-ATTLATTD-	-TSCESVVTSQ	QH----HLTP
Vit_vin009744	QVSHLVYENS	YFRQQQTQN-	-ATTLATTD-	-TSCESVVTSQ	QH----HLTP
Gly_maxATHB-8-like	QVSHLVYENS	YFRQQQTQN-	-ATTLATTD-	-TSCESVVTSQ	QR----NLT
Sol_lycATHB-15-like	QVSQLVYENS	FFRQQQTQN-	-ATTLATTD-	-TSCESVVTSQ	QR----NLT
Gly_maxATHB-8-likeb	QVSHLVYENS	FFRQQQTQN-	-NATLATTD-	-TSCESVVTSQ	QR----NLT
Med_truXP_003603630.1	QVSHLVYENT	FFRQHTQN-	-TTLATTD-	-TSCESVVTSQ	QQ----

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AmTr_v1.0_scaffold00148.15	Q-RP-PRDAN	NPAGLLSIAE	ETLAEFLSKA	TGTAVDWVQM	PGMKPGPDSI
AmTr_v1.0_scaffold00056.60	Q-HP-PRDA-	SPAGLLSIAE	ETLAEFLSKA	TGTAVEWIQM	PGMKPGPDSI
AmTr_v1.0_scaffold00155.45	PPHP-PRDAN	NPAGLLSIAE	ETLAEFLSKA	TGTAVDWVQM	LGMKPGPDSI
Ara_thaPHABULOSA	Q-HQ-QRDAN	NPAGLLSIAE	EALAEFLSKA	TGTAVDWVQM	IGMKPGPDSI
Ara_thaATHB15	Q-NP-PRDA-	SPAGLLSIAE	ETLAEFLSKA	TGTAVEWVQM	PGMKPGPDSI
Ara_thaPHAVOLUTA	Q-HP-PRDAN	NPAGLLSIAE	ETLAEFLCKA	TGTAVDWVQM	IGMKPGPDSI
Ara_thaATHB8	Q-HQ-PRDA-	SPAGLLSIAD	ETLTFEFLSKA	TGTAVEWVQM	PGMKPGPDSI
Ara_thaREVOLUTA	Q-HS-LRDAN	SPAGLLSIAE	ETLAEFLSKA	TGTAVDWVQM	PGMKPGPDSV
Vit_vinHOX32-like	Q-HP-QRDAN	NPAGLLAIAE	ETLAEFLSKA	TGTAVDWVQM	IGMKPGPDSI
The_cacXP_007022870.1	Q-HP-QRDAN	SPAGLLAIAE	ETLAEFLSKA	TGTAVDWVQM	IGMKPGPDSI
Ory_sathOX32	T-RP-QRDAN	NPAGLLAIAE	ETLAEFLSKA	TGTAVDWVQM	VGMKPGPDSI
Pru_perppa001343mg	Q-HP-QRDAN	NPAGLLAIAE	ETLAEFLSKA	TGTAVDWVQM	IGMKPGPDSI
Bra_dishHOX32-like	P-RP-QRDAN	NPAGLLAIAE	ETLAEFLSKA	TGTAVDWVQM	VGMKPGPDSI
Pop_triPHABULOSA	Q-QP-QRDAN	NPAGLLAIAE	ETLAEFLSKA	TGTAVDWVQM	IGMKPGPDSI
Pop_triPHABULOSAb	Q-QP-QRDAN	NPAGLLTIAE	ETLAEFLSKA	TGTAVDWVQM	IGMKPGPDSI
Fra_vesHOX32-like	Q-HP-QRDAN	NPAGLLAIAE	ETLAEFLSKA	TGTAVDWVQM	IGMKPGPDSI
Gly_maxATHB-14-like	Q-HP-NRDAN	NPAGLLAIAE	ETLAEFLSKA	TGTAVDWVQM	IGMKPGPDSI
Gly_maxREVOLUTA-like	Q-HT-LRDAS	NPAGLLSIAE	ETLTFEFLSKA	TGTAVDWVQM	PGMKPGPDSV
Gly_maxREVOLUTA-likeb	Q-HT-MRDAN	NPAGLLSIAE	ETLTFEFLSKA	TGTAVDWVQM	PGMKPGPDSV
Pru_perREV_IFL1	Q-HS-LRDAN	NPAGLLSIAE	ETLAEFLSKA	TGTAVDWVQM	PGMKPGPDSV
Ory_sathOX33	L-HP-QRDAN	NPAGLLAIAE	ETLAEFMSKA	TGTAVEWVQM	VGMKPGPDSI
Sol_tubATHB-14-like	Q-HP-ERDAN	NPAGLLAIAE	ETLAEFLGKA	TGTAVDWVQM	IGMKPGPDSI
The_cacXP_007022872.1	Q-HP-ORDAN	SPAGLLAIAE	ETLAEFLSKA	TGTAVDWVQM	IGMKPGPDSI
Ory_sathOX33-like	L-HP-ORDAN	NPAGLLIAIAE	ETLAEFLMSKA	TGTAVEWVQM	VGMKPGPDSI
Sol_lycREVOLUTA-like	Q-HS-LRDAN	NPAGLLIAIAE	ETLAEFLGKA	TGTAVDWVPM	PGMKPGPDSV
Sol_lycHOX32-like	Q-HP-ERDAN	NPAGLLIAIAE	ETLAEFLGKA	TGTAVDWVQL	IGMKPGPDSI
Gly_maxATHB-14-likeb	Q-HP-QWDAN	NPAGLLIAIQ	ETLAALFSLKA	TGTAVNWVQM	IGMKPGPDSI
Pop_triXP_006378973.1	Q-HS-LRDAN	NPAGLLSLAE	ETLAEFLSKA	TGTAVDWVQM	PGMKPGPDSV
Ory_satAC64837.1	L-HP-ORDAN	NPAGLLIAAE	ETLAEFLMSKA	TGTAVEWVQM	VGMKPGPDSI
Vit_vin013992	Q-HS-LRDAN	NPAGLLSIAE	ETLAEFLSKA	TGTAVDWVQM	PGMKPGPDSV
Ory_satOsJ_11861	T-RP-QRDAN	NPAGLLIAAE	ETLAEFLSKA	TGTAVDWVQM	VGMKPGPDSI
Sol_tubREVOLUTA-like	Q-HS-LRDAN	NPAGLLIAE	ETLAEFLSKA	TGTAVDWVPM	PGMKPGPDSV
Gly_maxATHB-14-likec	Q-HP-QWDAN	NPAGLLIAIQ	ETLVEFLSKA	TGTAVNWVQM	IGMKPGPDSI
The_cacXP_007024277.1	Q-HP-PRDA-	SPAGLLSIAE	ETLAEFLSKA	TGTAVEWVQM	PGMKPGPDSI
Vit_vinATHB-15-like	Q-HP-PRDA-	SPAGLLSIAE	ETLTFEFLSKA	TGTAVEWVQM	PGMKPGPDSI
Ric_comXP_002515977.1	Q-HQ-PRDA-	SPAGLLSIAE	ETLTFEFLSKA	TGTAVEWVQM	PGMKPGPDSI
The_cacXP_007016751.1	Q-HS-LRDAN	NPAGLLSIAE	ETLAEFLSKA	TGTAVDWVQM	PGMKPGPDSV
Sol_tubHOX32-like	Q-HP-ERDAN	NPAGLLIAAE	ETLAEFLGKA	TGTAVDWVQL	IGMKPGPDSI
Sol_lycATHB-14-like	QHHP-QRDAN	SPAGLLIAAE	ETLTFEFLGKA	TGTAVDWVQM	IGMKPGPESI
Sol_tubATHB-14-like_X1	QHHP-QRDAN	SPAGLLIAAE	ETLTFEFLGKA	TGTAVDWVQM	IGMKPGPESI
Med_truATHB-14	Q-RP-ORDAN	NPAGLLAAVAE	ETLAEFLSKA	TGTAVDWVQM	IGMKPGPESI
Zea_mayNP_001142394.1	L-HPPQRDAN	NPAGLLIAAE	ETLAEFLMSKA	TGTAVNWVQM	VGMKPGPDSV
Vit_vinREVOLUTA	Q-HS-LRDAN	NPAGLLSIAE	ETLAEFLSKA	TGTAVDWVQM	PGMKPGPDSV
Ory_braHOX32-like	A-RP-ORDAN	NPAGLLIAAE	ETLAEFLSKA	TGTAVDWVQM	VGMKPGPDSI
Ric_comXP_002529946.1	Q-HS-LRDAN	NPAGLLSIAE	ETLAEFLSKA	TGTAVDWVQM	PGMKPGPDSV
Tha_cacXP_007016749.1	Q-HS-LRDAN	NPAGLLSIAE	ETLAEFLSKA	TGTAVDWVQM	PGMKPGPDSV
Fra_vesREVOLUTA-like	Q-HS-LRDAN	NPAGLLSIAE	ETLAEFLSKA	TGTAVDWVQM	PGMKPGPDSV
Zea_mayNP_001146215.1	L-HPPQRDAN	NPAGLLIAAE	ETLAEFLMSKA	TGTAVNWVQM	VGMKPGPDSV
The_cacXP_007012152.1	Q-HP-PRDA-	SPAGLLSIAE	ETLTFEFLSKA	TGTAVEWVQM	PGMKPGPDSI
Pru_perppa001386mg	Q-HP-PRDA-	SPAGLLSIAE	ETLAEFLSKA	TGTAVEWVQM	PGMKPGPDSI
Pop_triAAX19057.1	Q-HP-PRDA-	SPAGLLSIAE	ETLAQFLSKA	TGTAVEWVQM	PGMKPGPDSI
Pop_triXP_002309538.2	Q-HP-PRDA-	SPAGLLSIAE	ETLAQFLSKA	TGTAVEWVQM	PGMKPGPDSI
Fra_vesATHB-8-like	Q-HP-PRDA-	SPAGLLSIAE	ETLAQFLSKA	TGTAVEWVQM	PGMKPGPDSI
Pop_triXP_002324794.1	Q-HP-PRDA-	SPAGLLSIAE	ETLAEFLSKA	TGTAVEWVQL	PGMKPGPDSI
Vit_vin009744	Q-HP-PRDA-	SPAGLLSIAE	ENLAQFLSKA	TGTAVEWVQM	PGMKPGPDSI
Gly_maxATHB-8-like	Q-QH-PRDAN	SPAGLLSIAE	ETLTFEFLSKA	TGTAVEWVQM	PGMKPGPDSI
Sol_lycATHB-15-like	Q-QH-PRDAN	SPAGLLSIAE	ETLAEFLSKA	TGTAVEWVQM	PGMKPGPDSI
Gly_maxATHB-8-likeb	Q-QH-PRDAN	SPAGLLSIAE	ETLAEFLSKA	TGTAVEWVQM	PGMKPGPDSI
Med_truXP_003603630.1	--H-QPRDA-	SPAGLLSIAE	ETLAEFLSKA	TGTAVEWVQM	PGMKPGPDSI

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AmTr_v1.0_scaffold00148.15	GIVAISSHSCS	GVAA---RAC	GLVSLEPTKV	VEILKDRMSW	FRDCRNFDIL
AmTr_v1.0_scaffold00056.60	GIVAISSHGCT	GVAA---RAC	GLVGLEPTKV	SEILKDRPTW	FRDCRSVEVL
AmTr_v1.0_scaffold00155.45	GIVAVSHNCS	GMAA---RVC	GLVSLEPAKV	AEILKDRPSW	FRDCRSHDVL
Ara_thaPHABULOSA	GIVAISSHNCs	GIAA---RAC	GLVGLEPMKV	AEILKDRPSW	LRDCRSVDTL
Ara_thaATHB15	GIIAISHGCT	GVAA---RAC	GLVGLEPTRV	AEIVKDRPSW	FRECRAVEVM
Ara-thaPHAVOLUTA	GIVAVSRNCS	GIAA---RAC	GLVGLEPMKV	AEILKDRPSW	FRDCRCVETL
Ara_thaATHB8	GIVAISSHGCT	GIAA---RAC	GLVGLDPTRV	AEILKDKPCW	LRDCRSLDIV
Ara_thaREVOLUTA	GIFAIISQRNC	GVAA---RAC	GLVSLEPMKI	AEILKDRPSW	FRDCRSLLEV
Vit_vinHOX32-like	GIVAVSRNCS	GVAA---RAC	GLVSLEPTKV	AEILKDRPSW	FRDCRCLDVL
The_cacXP_007022870.1	GIVAVSRNCS	GVAA---RAC	GLVSLEPTKV	AEILKDRPSW	FRDCRCLDVL
Ory_satHOX32	GIIAVSHNCS	GVAA---RAC	GLVSLEPTKV	AEILKDRPSW	YRDCRCVDVL
Pru_perppa001343mg	GIVAVSRNCS	GVAA---RAC	GLVSLEPTKV	AEILKDRPSW	FRDCRCLDVL
Bra_disHOX32-like	GIIAVSHNCS	GVAA---RAC	GLVSLEPTKV	AEILKDRPSW	YRDCRCVDVL
Pop_triPHABULOSA	GIVAVSRNCS	GVAA---RAC	GLVSLEPTKV	AEILKDRPSW	FRDCRCLDIL
Pop_triPHABULOSAb	GIVAVSRNCS	GVAA---RAC	GLVSLEPTKV	AEILKDRPSW	FRDCRCLDIL
Fra_vesHOX32-like	GIVAVSRNTS	GVAA---RAC	GLVSLEPTKV	AEILKDRPSW	FRDCRCLDVL
Gly_maxATHB-14-like	GIVAVSRNCS	GVAA---RAC	GLVSLEPTKV	AEILKDRPSW	YRDCRCVDVL
Gly_maxREVOLUTA-like	GIFAIQSQCS	GVAA---RAC	GLVSLEPTKV	AEILKDRPSW	FRDCRSLEVF
Gly_maxREVOLUTA-likeb	GIFAIQSQCS	GVAA---RAC	GLVSLEPTKI	AEILKDRPSW	FRDCRSLEVF
Pru_perREV_IFL1	GIFAIQSQCS	GVAA---RAC	GLVSLEPTKI	AEILKDRPSW	FRDCRSLEVF
Ory_satHOX33	GIIAVSHNCS	GVAA---RAC	GLVSLEPTKV	AEILKDRPSW	YRDCRCVDII
Sol_tubATHB-14-like	GIVAVSRNCS	GVAA---RAC	GLVSLEPTKV	AEILKDRPSW	YRDCRCLNVL
The_cacXP_007022872.1	GIVAVSRNCS	GVAA---RAC	GLVSLEPTKV	AEILKDRPSW	FRDCRCLDVL
Ory_satHOX33-like	GIIAVSHNCS	GVAA---RAC	GLVSLEPTKV	AEILKDRPSW	YRDCRCVDII
Sol_lycREVOLUTA-like	GIFAISSHSCS	GVAA---RAC	GLVSLEPTKI	ADILKDRPSW	FRDCRNVEVI
Sol_lycHOX32-like	GIVAVSRNCS	GVAA---RAC	GLVSLEPTKV	AEILKDCPSW	YRDCRCLNVL
Gly_maxATHB-14-likeb	GIVAVSRNCS	GVAA---RAC	GLVSLEPTKV	AEILKDRPSW	YRDCRCLNVL
Pop_trixP_006378973.1	GIFAIQSQCS	GVAA---RAC	GLVSLEPTKL	AEILKDRQSW	FRDCRNLEVF
Ory_satACA64837.1	GIITVSHNCS	GVAA---RAC	GLVSLEPTKV	AEILKDRPSW	YRDCRCVDII
Vit_vin013992	GIFAISSHSCS	SGSSSMRS	KFRTLK---	-EILKDRPSW	FRDCRSLEVF
Ory_satOsJ_11861	GIIAVSHNCS	GVAA---RAC	GLVSLEPTKV	AEILKDRPSW	YRDCRCVDVL
Sol_tubREVOLUTA-like	GIFAISSHSCS	GVAA---RAC	GLVSLEPTKI	AEILKDRPSW	FRDCRNVEVI
Gly_maxATHB-14-likec	GIVAVSRNCS	GVAA---RAC	GLVSLEPTKV	AEILKDRPSW	YRDCRCLNVL
The_cacXP_007024277.1	GIVAISSHGCT	GVAA---RAC	GLVGLEPTRV	AELLKDRPSW	FRDCRAVDVL
Vit_vinATHB-15-like	GIVAISSHGCT	GVAA---RAC	GLVGLEPTRV	AEILKDRPSW	FRDCRAVDVL
Ric_comXP_002515977.1	GIIAISHGCT	GVAA---RAC	GLVGLEPTRV	AEILKDRPSW	FRDCRAVDVL
The_cacXP_007016751.1	GIFAIQSQCS	GVAA---RAC	GLVSLEPTKI	AEILKDRPSW	FRDCRNLEVF
Sol_tubHOX32-like	GIVAVSRNCS	GVAA---RAC	GLVSLEPTKV	AEILKDCPSW	YRDCRCLNVL
Sol_lycATHB-14-like	GIVAVSRNCN	GVAA---RAC	GLVSLEPMKV	AEILKDRPSW	YRDCRCLDIL
Sol_tubATHB-14-like_X1	GIVAVSRNCN	GVAA---RAC	GLVSLEPMKV	AEILKDRPSW	YRDCRCLDIL
Med_truATHB-14	GIVAVSRNSS	GIAA---RAC	GLVSLEPTKV	AEILKDRILS	YRDCRCVDVL
Zea_mayNP_001142394.1	GIIAVSHNCS	GVAA---RAC	GLVSLEPTKV	AEILKDRASW	YRDCRHVDVL
Vit_vinREVOLUTA	GIFAISSHSCS	GVAA---RAC	GLVSLEPSKI	AEILKDRPSW	FRDCRSLEVF
Ory_braHOX32-like	GIIAVSHNCS	GVAA---RAC	GLVSLEPTKV	AEILKDRPSW	YRDCRCVDVL
Ric_comXP_002529946.1	GIFAIQSQCS	GVAA---RAC	GLVSLEPTKI	AEILKDRPSW	FRDCRSLEVF
Tha_cacXP_007016749.1	GIFAIQSQCS	GVAA---RAC	GLVSLEPTKI	AEILKDRPSW	FRDCRNLEVF
Fra_vesREVOLUTA-like	GIFAIQSQCS	GVAA---RAC	GLVSLEPTKI	AEILKDRPSW	FRDCRSLEVF
Zea_mayNP_001146215.1	GIIAVSHNCS	GVAA---RAC	GLVSLEPTKV	AEILKDRASW	YRDCRRVDIL
The_cacXP_007012152.1	GIVAISSHGCT	GVAA---RAC	GLVGLEPTRV	AEILKDRPSW	FRDCRAVDVM
Pru_perppa001386mg	GIVAISSHGCT	GVAA---RAC	GLVGLEPTRV	AEILKDRPSW	FRNCRSVDVL
Pop_triaAX19057.1	GIVAISSHGCT	GVAA---RAC	GLVGLEPTRV	AEILKDRPSW	FRDCRAVDVV
Pop_trixP_002309538.2	GIVAISSHGCT	GVAA---RAC	GLVGLEPTRV	AEILKDRPSW	FRDCRAVDVV
Fra_vesATHB-8-like	GIVAISSHGCT	GVAA---RAC	GLVGLEPTRV	SEILKDRPSW	FRNCRSVDVL
Pop_trixP_002324794.1	GIVAISSHGCT	GVAA---RAC	GLVGLEPTRV	AEILKDRPSW	FRNCRSVDVL
Vit_vin009744	GIVAISSHGCT	GVAA---RAC	GLVGLEPTRV	AEILKDWPSPW	YRECRNVDVDI
Gly_maxATHB-8-like	GIVAISSHGCP	GVAA---RAC	GLVGLEPARV	AEILKDRILS	FRDCRTVDVL
Sol_lycATHB-15-like	GIIAISSHGCS	GVAS---RAC	GLVGLEPTRV	AEILKDRPSW	FRDCRAVDVL
Gly_maxATHB-8-likeb	GIVAISSHGCP	GVAA---RAC	GLVGLEPTRV	AEILKDRILS	FRDCRTVDVL
Med_truXP_003603630.1	GIVAISSHGSP	GVAA---RAC	GLVGLEPARV	AEILKDRILS	YRDCRTVDVL

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AmTr_v1.0_scaffold00148.15	TVLPLGSGGT	IELIYMQT	YAPTTLA		PARDFW	TLRYTCTGLED
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AmTr_v1.0_scaffold00155.45	TVFPAGNGGT	IELIYMQT	YAPTTLA		AARDFW	TLRYTTGLDD
Ara_thaPHABULOSA	SVIPAGNGGT	IELIYTQM	YAPTTLA		AARDFW	TLRYSTCLED
Ara_thaATHB15	NVLPTANGGT	VELLYMQL	YAPTTLA		PPRDFW	LLRYRTSVLED
Ara_thaPHAVOLUTA	NVPIPTGNGGT	IELVNTOI	YAPTTLA		AARDFW	TLRYSTSLED
Ara_thaATHB8	NVLSTANGGT	LELIYMQL	YAPTTLA		PARDFW	MLRYRTSVMED
Ara_thaREVOLUTA	TMFPAGNGGT	IELVYMQT	YAPTTLA		PARDFW	TLRYTTSLDN
Vit_vinHOX32-like	SVIPPTGNGGT	IELIYMQT	YAPTTLA		SARDFW	TLRYTTSLLED
The_cacXP_007022870.1	SVIPPTGNGGT	IELIYMQT	YAPTTLA		AARDFW	TLRYTTSLLED
Ory_satHOX32	HVIPPTGNGGT	IELIYMQT	YAPTTLA		APRDFW	ILRYTSGLED
Pru_perppa001343mg	SLIPFAGNGGT	IELTYMQT	YAPTTLA		AARDFW	TLRYTTSLLED
Bra_disHOX32-like	QIIPPTGNGGT	IELIYMQT	YAPTTLA		APRDFW	ILRYTSGLED
Pop_triphABULOSA	SVIPPTGSGGT	IELIYMQT	YAPTTLA		AARDFW	TLRYTTTLED
Pop_triphABULOSAb	SVIPPTGSGGT	IELIYMQT	YAPTTLA		AARDFW	TLRYTTTLED
Fra_vesHOX32-like	SIIIPAGNGGT	IELLYMQI	YAPTTLA		AARDFW	TLRYTTTLED
Gly_maxATHB-14-like	SIVPTGNGGT	IELLYMQT	YAPTTLA		AARDFW	TLRYTTSLLED
Gly_maxREVOLUTA-like	TMFPAGNGGT	IELVYTQI	YAPTTLA		PARDFW	TLRYTTSLLEN
Gly_maxREVOLUTA-likeb	TMFPAGNGGT	IELVYTQT	YAPTTLA		PARDFW	TLRYTTSLLEN
Pru_perREV_IFL1	TMFPAGNGGT	IELIYTQT	YAPSTLA		PARDFW	TLRYTTSLDN
Ory_satHOX33	HVIPPTGNGGT	IELIYMQT	YAPTTLA		APRDFW	TLRYTSGLED
Sol_tubATHB-14-like	SVIPPTGNGGT	IELIYLQT	YAPTTLA		TARDFW	TLRYTTSLLED
The_cacXP_007022872.1	SVIPPTGNGGT	IELIYMQT	YAPTTLA		AARDFW	TLRYTTSLLED
Ory_satHOX33-like	HVIPPTGNGGT	IELIYMQT	YAPTTLA		APRDFW	TLRYTSGLED
Sol_lycREVOLUTA-like	TMFPAGNGGT	VELLYTQI	YAPTTLA		PARDFW	TLRYTTTLDN
Sol_lycHOX32-like	SVIPPTGNGGT	IELIYLQT	YAPTTLA		TARDFW	TLRYTTSLLED
Gly_maxATHB-14-likeb	SVIPPTGNGGT	IELMYMQT	YAPTTLA		AARDFW	TLRYTTSLLED
Pop_triXP_006378973.1	TVFPAGNGGT	IELLYSQI	YAPTTLA		PARDFW	TLRYTINLEN
Ory_satAC64837.1	HVIPPTGNGGT	IELIYMQT	HAPTTLA		APRDFW	TLRYTSGLED
Vit_vin013992	TMFPAGNGGT	VELLYTQI	YAPTTLA		PARDFW	TLRYTTSLDN
Ory_satOsJ_11861	HVIPPTGNGGT	IELIYMQT	YAPTTLA		APRDFW	ILRYTSGLED
Sol_tubREVOLUTA-like	TIFFPAGNGGT	VELLYTQI	YAPTTLA		PARDLW	TLRYTTTLDN
Gly_maxATHB-14-likec	SVVSAGNGGT	IELMYMQT	YAPTTLA		AARDFW	TLRYSTSLED
The_cacXP_007024277.1	NVLPTANGGT	IELLYMQL	YAPTTLA		PARDFW	LLRYRTSVLED
Vit_vinATHB-15-like	NVLPTANGGT	IELLYMQL	YAPTTLA		PARDFW	LLRYRTSVMED
Ric_comXP_002515977.1	NVLPTANGGT	IELLYMQL	YAPTTLA		PARDFW	LLRYRTSVLED
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Sol_tubHOX32-like	SVIPPTGNGGT	IELIYLQT	YAPTTLA		TARDFW	TLRYTTSLLED
Sol_lycATHB-14-like	NVPIPTGNGGT	IELIYLQT	YAPTTLA		PARDFW	TLRYTTSLLED
Sol_tubATHB-14-like_X1	NVPIPTGNGGT	IELIYLQT	YAPTTLA		PARDFW	TLRYTTSLLED
Med_truATHB-14	SIVPTGGGGT	IELMYMQVLF	YSTKELTMPPF	LFLLTSRDFW	TLRYTTSLLED	
Zea_mayNP_001142394.1	HVIPPTGNGGT	IELIYMQT	YALTTLA		EPRDFW	TLRYTSGLED
Vit_vinREVOLUTA	TMFPAGNGGT	VELLYTQI	YAPTTLA		PARDFW	TLRYTTSLDN
Ory_braHOX32-like	HVIPPTGNGGT	IELIYMQT	YAPTTLA		APRDFW	TLRYTSGLED
Ric_comXP_002529946.1	TMFPAGNGGT	IELVYSQV	YAPTTLA		PARDFW	TLRYTSSLDN
Tha_cacXP_007016749.1	TMFPAGNGGT	IELVYTQT	YAPTTLA		PARDFW	TLRYTTTLEN
Fra_vesREVOLUTA-like	TMFPAGNGGT	IELIYTQT	YAPTTLA		PARDFW	TLRYTTSLDN
Zea_mayNP_001146215.1	HVIPPTGNGGT	IELIYMQT	YALTTLA		EPRDFW	TLRYTSGLED
The_cacXP_007012152.1	NVLSTGNGGT	IELLYMQL	YAPTTLA		PARDFW	LLRYRTSVLED
Pru_perppa001386mg	NVLSTGNGGT	IELLYMQL	YAPTTLA		PARDFW	LLRYRTSVLED
Pop_trAAx19057.1	NALSTGSGGT	IELLYMQL	YAPTTLA		PARDFW	LLRYRTSVLED
Pop_triXP_002309538.2	NALSTGSGGT	IELLYMQL	YAPTTLA		PARDFW	LLRYRTSVLED
Fra_vesATHB-8-like	NVLSTGNGGT	IELLYMQL	YAPTTLA		PARDFW	LLRYRTSVLED
Pop_triXP_002324794.1	NAMSTANGGT	IELLYMQL	YAPTTLA		PARDFL	LLRYRTSVLED
Vit_vin009744	NVLSTGNGGT	IELLYMQL	YAPTTLA		PARDFW	LLRYRTSVLED
Gly_maxATHB-8-like	NVMSTGNGGT	IELLYMQL	YAPTTLA		PGRDFW	LLRYTSLLED
Sol_lycATHB-15-like	NVMSTGNGGT	IELLYMQL	YAPTTLA		PGRDFW	LMRYRTSVMED
Gly_maxATHB-8-likeb	NVMSTGNGGT	IELLYMQL	YAPTTLA		PGRDFW	LLRYTSLLED
Med_truXP_003603630.1	NVMSTGNGGT	IELLYMQL	YAPTTLA		PGRDFW	LLRYTSLLED

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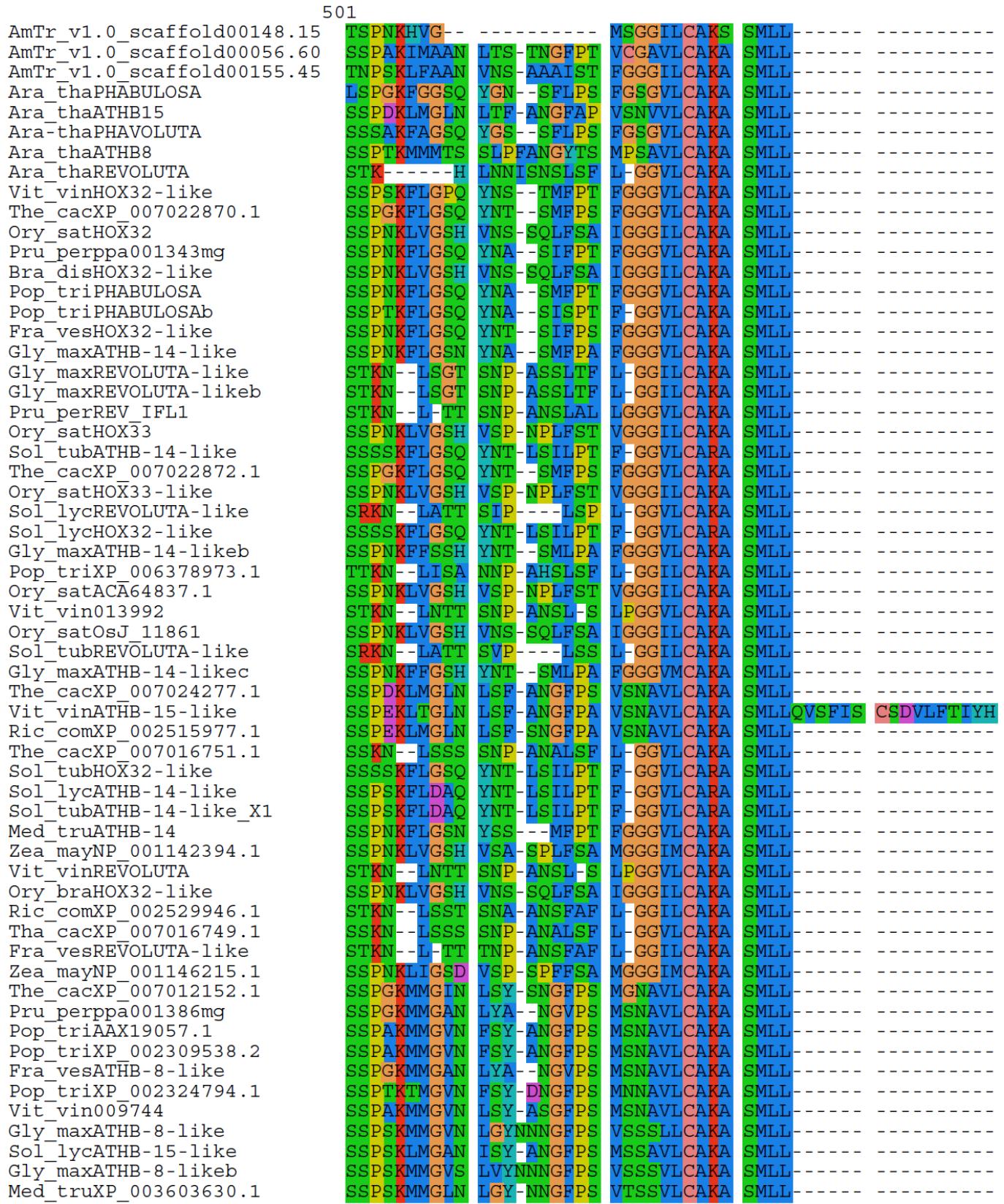
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AmTr_v1.0_scaffold00056.60	GSLVVCERSL	SNTQGGPSMP	PVQQFVRAEM	HPSGYLIRPC	EGGGSIHLHV
AmTr_v1.0_scaffold00155.45	GSLVVCERSL	TSSTGGPSGP	TSLSFVRAEM	MPSGYLIRPC	EGGGSIIHIV
Ara_thaPHABULOSA	GSYVVCERSL	TSATGGPTGP	PSSNFVRAEM	KPSGFLIRPC	DGGGSILHV
Ara_thaATHB15	GSLVVCERSL	KSTQNGPSMP	LIVQNFVRAEM	LSSSGYLIRPC	DGGGSIIIHIV
Ara-thaPHAVOLUTA	GSYVVCERSL	TSATGGPNGP	LSSSFVRAEM	LSSGFLIRPC	DGGGSIIIHIV
Ara_thaATHB8	GSLVICERSL	NNTQNGPSMP	PSPHFVRAEI	LPSGYLIRPC	EGGGSIILHV
Ara_thaREVOLUTA	GSFVVCERSL	SGSGAGPNAA	SASQFVRAEM	LSSGYLIRPC	DGGGSIIIHIV
Vit_vinHOX32-like	GSLVICERSL	TSSTGGPTGP	PASSYIIRAEM	LPSGYLIRPC	EGGGSIIHIV
The_cacXP_007022870.1	GSLVICERSL	TSSTGGPTGP	PTSSFVRAEM	LPSGFLIRPC	EGGGSIIHIV
Ory_satHOX32	GSLVICERSL	TQSTGGPSGP	NTPNFVRAEV	LPSGYLIRPC	EGGGSMIHIV
Pru_perppa001343mg	GSLVVCERSL	TSSTGGPTGP	PSASFVRAEM	LPSGYLIRPC	EGGGSIINIV
Bra_disHOX32-like	GSLVICERSL	TQATGGPSGP	NTPNFVRAEV	LPSGYLIRPC	EGGGSMIHIV
Pop_triPHABULOSA	GSLVICERSL	TSSTGGPTGP	PPSSFIRAEM	LPSGYLIRPC	EGGGSIIHIV
Pop_triPHABULOSAb	GSLVICERSL	TSSTGGPTGP	PSSSFVRADM	LPSGYLIRPC	EGGGSIIHIV
Fra_vesHOX32-like	GSLVVCERSL	TSSTGGPTGT	PSPSFVRAEM	LPSGFLIRPC	EGGGSIIHIV
Gly_maxATHB-14-like	GSLVICERSL	TSSTGGPAGP	PSTTFVRAEM	LPSGFLIRPC	EGGGSIIHIV
Gly_maxREVOLUTA-like	GSLVVCERSL	SGSGTGPNPA	AAAQFVRAET	LPSGYLIRPC	EGGGSIIHIV
Gly_maxREVOLUTA-likeb	GSLVVCERSL	SGSGTGPNPA	AAAQFVRAET	LPSGYLIRPC	EGGGSIIHIV
Pru_perREV_IFL1	GSFVVCERSL	SGSGAGPNAA	SAAQFVRAEM	LPSGYLIRPC	EGGGSIIHIV
Ory_satHOX33	GSLVICERSL	TQSTGGPSGP	NTPNFIRAEV	LPSGYLIRPC	EGGGSMIYIV
Sol_tubATHB-14-like	GSLVICERSL	TTATGGPTGP	PATSFVRAEM	LPSGYLIRPC	EGGGSMIHIV
The_cacXP_007022872.1	GSLVICERSL	TSSTGGPTGP	PTSSFVRAEM	LPSGFLIRPC	EGGGSIIHIV
Ory_satHOX33-like	GSLVICERSL	TQSTGGPSGP	NTPNFIRAEV	LPSGYLIRPC	EGGGSMIYIV
Sol_lycREVOLUTA-like	GSLVVCERSL	SGNGPGPNPT	AASQFVRAQM	LPSGYLIRPC	DGGGSIIIHIV
Sol_lycHOX32-like	GSLVICERSL	TTATGGPTGP	PATSFVRAEM	LPSGYLIRPC	EGGGSMIHIV
Gly_maxATHB-14-likeb	GSLVICERSL	TSSTGGPTGP	AASNPFVRAEM	LPSGYLIRPC	EGGGSIHVIV
Pop_triXP_006378973.1	GSLVVCERSL	SGSGAGPNAA	AAAQFVRAEM	LPSGYLIRPC	EGGGSIIHIV
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Vit_vin013992	GSLVVCERSL	SGSGAGPNTA	AAAQFVRAEM	LPSGYLIRPC	EGGGSIIHIV
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Sol_tubREVOLUTA-like	GSLVVCERSL	SGNGPGPNPA	AASQFVRAQM	LPSGYLIRPC	EGGGSMIHIV
Gly_maxATHB-14-likec	GSLVICERSL	TSSTGGPTGP	AASNPFVRAEM	LPSGYLIRPC	EGGGSIIHIV
The_cacXP_007024277.1	GSLVVCERSL	KNTQNGPSMP	AVQHFVRAEM	LPSGYLIRPC	EGGGSIIHIV
Vit_vinATHB-15-like	GSLVVCERSL	KNTQNGPSMP	PVQHFVRAEM	LPSGYLIRPC	EGGGSIIHIV
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The_cacXP_007016751.1	GSLVVCERSL	SGSGAGPSAA	AAAQFVRAEM	LPSGYLIRPC	EGGGSIIHIV
Sol_tubHOX32-like	GSLVICERSL	TTATGGPTGP	PATSFVRAEM	LPSGYLIRPC	EGGGSMIHIV
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Med_truATHB-14	GSLVICERSL	NASTGGPTGP	SPSNFVRAEM	LPSGFLIRPC	EGGGSIIHIV
Zea_mayNP_001142394.1	GSLVICERSL	TQSTGGPSGP	NTPNFIRAEV	LPSGYLIRPC	EGGGSMIYIV
Vit_vinREVOLUTA	GSLVVCERSL	SGSGAGPNTA	AAAQFVRAEM	LPSGYLIRPC	EGGGSIIHIV
Ory_braHOX32-like	GSLVICERSL	TQSTGGPSGP	NTPNFVRADV	LPSGYLIRPC	EGGGSMIHIV
Ric_comXP_002529946.1	GSLVVCERSL	SGSGAGPNAA	AAAQFVRAEM	LPSGYLIRPC	DGGGSIIIHIV
Tha_cacXP_007016749.1	GSLVVCERSL	SGSGAGPSAA	AAAQFVRAEM	LPSGYLIRPC	EGGGSIIHIV
Fra_vesREVOLUTA-like	GSFVVCERSL	SGSGAGPSGA	SAAQFVRAEM	LPSGYLIRPC	EGGGSIIHIV
Zea_mayNP_001146215.1	GSLVICERSL	THSTGGPSGP	KTPDFIRAEV	LPSGYLIRPC	DGGGSMIYIV
The_cacXP_007012152.1	GSLVVCERSL	NNTQNGPSIP	PAANFVRAEM	LPSGYLIRPC	EGGGSIIHIV
Pru_perppa001386mg	GSLVVCERSL	NNTQNGPSMP	PVQNFVRAEM	LPSGYLIRPC	EGGGSIIHIV
Pop_triAAX19057.1	GSLVVCERSL	NNTQNGPSMP	PTQHFVRAEM	LPSGYLIRPC	EGGGSIHVIV
Pop_triXP_002309538.2	GSLVVCERSL	NNTQNGPSMP	PTQHFVRAEM	LPSGYLIRPC	EGGGSIHVIV
Fra_vesATHB-8-like	GSLVVCERSL	NNTQNGPSMP	PVQNFVRAEM	LPSGYLIRPC	EGGGSIIHIV
Pop_triXP_002324794.1	GSLVVCERSL	NNTQNGPSMP	PTQHFVRAEM	LPSGYLIRPC	EGGGSIIHIV
Vit_vin009744	GSLVVCERSL	NNTQNGPSMP	PVQYFVRAEK	LPSGYLIRPC	EGGGSIIHIV
Gly_maxATHB-8-like	GSLVVCERSL	NNTQNGPAMP	PVQHFVRAEM	LASGYLIRPC	EGGGSIIHIV
Sol_lycATHB-15-like	GSLVICERSL	NNTQNGPSMP	PVQSFVRADI	LPSGYLIRPC	EGGGSIIHIV
Gly_maxATHB-8-likeb	GSFVVCERSL	NNTQNGPAMP	PVQHFVRAEM	LPSGYLIRPC	EGGGSIIHIV
Med_truXP_003603630.1	GSLVVCERSL	NNTQNGPSMP	PVPHFVRAEV	LPSGYLIRPC	EGGGSIIHIV

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AmTr_v1.0_scaffold00148.15	DHLDLEAWSV	PEVLRPLYES	SKVLAQKMTI	AALRHIROQIA	QEMSGEV	V
AmTr_v1.0_scaffold00056.60	DHMDLEPWSV	PEVLRPLYES	STVLAQKMTM	AALRHLRQIA	QEVSQNT	V
AmTr_v1.0_scaffold00155.45	DHVLDLEAWNV	PEVLRPLYES	SKILAQKMTL	AALRHIROQIA	HEASGEV	N
Ara_thaPHABULOSA	DHVLDLDAWSV	PEVMRPLYES	SKILAQKMTV	AALRHVRQIA	QETSGEV	Q
Ara_thaATHB15	DHMDLEACSV	PEVLRPLYES	PKVLAQKTTM	AALRQLQIA	QVTQTNSSV	
Ara_thaPHAVOLUTA	DHVLDLVSSV	PEVLRPLYES	SKILAQKMTV	AALRHVRQIA	QETSGEV	Q
Ara_thaATHB8	DHFDLDEPWSV	PEVLRSLYES	STLLAQRTTM	AALRYLRQIS	QEISQPN	V
Ara_thaREVOLUTA	DHLDLEAWSV	PDVLRPLYES	SKVVAQKMTI	SALRYIROLA	QESNGEV	V
Vit_vinHOX32-like	DHVLDLDAWSV	PEVLRPLYES	SKILAQKTTV	AALRHIROQIA	QETSGEI	Q
The_cacXP_007022870.1	DHVLDLVWSV	PEVLRPLYES	SKILAQKMTI	AALRHIROQIA	QETSGEI	Q
Ory_satHOX32	DHVLDLDAWSV	PEVLRPLYES	PKILAQKMTI	AALRHIROQIA	HESSGEM	P
Pru_perppa001343mg	DHVLDLDAWSV	PEVLRSLYES	SKILAQKMTI	SALRHVRQIA	QETSGEI	Q
Bra_disHOX32-like	DHVLDLDAWSV	PEVLRPLYES	PKILAQKMTI	AALRHIROQIA	HESSGEM	P
Pop_triPHABULOSA	DHVLDLVWSV	PEVLRPLYES	SKILAQKMTM	AALRHIROQIA	QETSGEI	Q
Pop_triPHABULOSAb	DHVLDLVWSV	PEVLRPLYES	SKILAQKMTM	AALRYIRQIA	QETSGEI	Q
Fra_vesHOX32-like	DHVLDLDAWSV	PEVLRSLYES	SKIIAQKMTV	AALRHVRQIA	QETGEI	Q
Gly_maxATHB-14-like	DHIDLDVWSV	PEVLRPLYES	SKILAQKLTI	AALOQHIRQIA	LESSGEI	Q
Gly_maxREVOLUTA-like	DHLDLEAWSV	PEVLRPLYES	SKVVAQKMTI	AALRYIRQIA	QETSGEV	V
Gly_maxREVOLUTA-likeb	DHLDLEAWSV	PEVLRPLYES	SKVVAQKMTI	AALRYIRQIA	QETSGEV	V
Pru_perREV_IFL1	DHLDLEAWSV	PEVLRPLYES	SKVVAQRMTI	AALRYIRQIA	QETSGEV	V
Ory_satHOX33	DHVLDLDAWSV	PEVLRPLYES	PKILAQKMTI	AALRHVRQIA	HESSGEI	P
Sol_tubATHB-14-like	DHIDLDLDAWSV	PEVLRPLYES	SKILAQKMTM	AALRHVRQIA	QETSGEI	Q
The_cacXP_007022872.1	DHVLDLVWSV	PEVLRPLYES	SKILAQKMTI	AALRHVRQIA	QETSGEI	Q
Ory_satHOX33-like	DHVLDLDAWSV	PEVLRPLYES	PKILAQKMTI	AALRHVRQIA	HESSGEI	P
Sol_lycREVOLUTA-like	DHLDLEAWSA	PEILRPLYES	SKVVAQKMTI	AALRYAROLA	QETSGEV	V
Sol_lycHOX32-like	DHIDLDLDAWSV	PEVLRPLYES	SKILAQKTTM	AALRHVRQIA	QETSGEI	Q
Gly_maxATHB-14-likeb	DHVLDLVWSV	PEVLRPLYES	PKFLAQQLTT	AALRNVRQIA	QESSGEV	Q
Pop_trixP_006378973.1	DHNLQAWSV	PEVLRPLYES	SKAVAQKVTI	TALRHVRQIA	HETSGEV	V
Ory_satACÀ64837.1	DHVLDLDAWSV	PEVLRPLYES	PKILAQKMTI	AALRHVRQIA	HESSGEI	P
Vit_vin013992	DHLDLEAWSV	PEVLRPLYES	SRVVAQKMTI	AALRYIRQIA	QETSGEV	V
Ory_satOsJ_11861	DHVLDLDAWSV	PEVLRPLYES	PKILAQKMTI	AALRHVRQIA	HESSGEM	P
Sol_tubREVOLUTA-like	DHLDLEAWSA	PEILRPLYES	SKVVAQKMTI	AALRYAROLA	QETSGEV	V
Gly_maxATHB-14-likec	DHVLDLVWSV	PEVLRPLYES	PKFLAQQLTT	AALRHARQIA	QESSGDV	H
The_cacXP_007024277.1	DHMDLEPWRV	PEVLRPLYES	STVLAQKTTM	AALRQLRQIA	QEVSQSN	V
Vit_vinATHB-15-like	DHMDLEPWSV	PEVLRPLYES	STVLAQKTTM	AALRQLRQIA	QEVSQSN	V
Ric_comXP_002515977.1	DHMDLEPWSV	PEVLRPLYES	STVLAQKTTM	AALRQLRQIA	QEASQSN	V
The_cacXP_007016751.1	DHMLNEAWSV	PEVLRPLYES	SKVIAQKMTI	AALRYIRQIA	QETSGEV	V
Sol_tubHOX32-like	DHIDLDLDAWSV	PEVLRPLYES	SKILAQKTTM	AALRHVRQIA	QETSGEI	Q
Sol_lycATHB-14-like	DHIDLDACSV	PEVLRPLYES	SKILAQKLTM	AAFRYIRQIA	QETSGEI	Q
Sol_tubATHB-14-like_X1	DHIDLDACSV	PEVLRPLYES	SKILAQKMTM	AAFRYIRQIA	QETSGEI	Q
Med_truATHB-14	DHVLDLVWSV	PEVLRPLYES	SKILAQKLTI	AALQHIKQIA	QESSGEI	Q
Zea_mayNP_001142394.1	DHVNLNACSV	PEVLRPLYES	PKILAQKMTA	AALRHVRQIA	HESSGEM	P
Vit_vinREVOLUTA	DHLDLEAWSV	PEVLRPLYES	SRVVAQKMTI	AALRYIRQIA	QETSGEV	V
Ory_braHOX32-like	DHVLDLDAWSV	PEVLRPLYES	PKILAQKMTI	AALRHVRQIA	HESSGEM	P
Ric_comXP_002529946.1	DHLDLEAWSV	PEVLRPLYES	SKVVAQKMTI	AALRFIRQIA	QETSGEV	V
Tha_cacXP_007016749.1	DHMNLEAWSV	PEVLRPLYES	SKVIAQKMTI	AALRYIRQIA	QETSGEV	V
Fra_vesREVOLUTA-like	DHLDLEAWSV	PEVLRPLYES	SKVVAQKRTI	AALRYIRQIA	QETSGEV	V
Zea_mayNP_001146215.1	DHVLDLNACSV	PEVLRPLYES	PKILAQKMTA	AALRHVRQIA	HESSGET	P
The_cacXP_007012152.1	DHMDLEPWSV	PEVLRPLYES	STLLAQKTTM	AALRHLRQIS	QEISQPN	V
Pru_perppa001386mg	DHMDLEPWSV	PEVLRPLYES	STLLAQKTTM	AALRNLRQIS	QEVSQPN	A
Pop_triaAX19057.1	DHMDLEPWSV	PEVLRPLYES	STLLAQKTTM	AALRHLRQVS	QEVSQPN	V
Pop_trixP_002309538.2	DHMDLEPWSV	PEVLRPLYES	STLLAQKTTM	AALRHLRQVS	QEVSQPN	V
Fra_vesATHB-8-like	DHMDLEPWNV	PEVLRPLYES	STLLAQKTTM	AALRHLRQVS	QEVSQPN	V
Pop_trixP_002324794.1	DHMDLEPWSV	PEVLRPLYES	STLLAQKTTM	AALRHLRQIS	QEISQPN	V
Vit_vin009744	DHMDLEPWSV	PEVLRPLYES	STLLAQKTTM	AALRQLRQIS	QEVSQPT	N
Gly_maxATHB-8-like	DHMVLEPWSV	PEVLRPLYES	SMLLAQRTTM	AALRHLRQIS	QEVSQPS	V
Sol_lycATHB-15-like	DHMVLEPWSV	PEVLRPLYES	SMLLAQRTTM	AALRHLRQIS	QEISHP	V
Gly_maxATHB-8-likeb	DHMVLEPWSV	PEVLRPLYES	SMLLAQRTTM	AALRHLRQIS	QEVSQPS	V
Med_truXP_003603630.1	DHMLLEPWSV	PEVLRPLYES	SMLLAQRTTM	AALRHLRQIS	QEVSQPS	V

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AmTr_v1.0_scaffold00148.15	F G W G R Q P A V L	R T F S Q R L I S R G	F N D A V N G F A D	D G W S -L M S S D	G V E D V S V V I N
AmTr_v1.0_scaffold00056.60	V G W G R Q P A A L	R A L S Q R L I S K G	F N E A V N G F T D	D G W S -L L G N D	G M D D V T I L V N
AmTr_v1.0_scaffold00155.45	Y G GG G R Q P A V L	R T F S Q R L I S R G	F N D A V N G F A D	D G W S -L M S S D	G V E D V T I V L N
Ara_thaPHABULOSA	Y G GG G R Q P A V L	R T F S Q R L I C R G	F N E A V N G F T D	D G W S -P M G S D	G A E D V T V M I N
Ara_thaATHB15	N G W G R Q P A A L	R A L S Q R L I S R G	F N E A V N G F T D	D G W S -V I G D -D	S M D D V T I T V N
Ara_thaPHAVOLUTA	Y S GG G R Q P A V L	R T F S Q R L I C R G	F N E A V N G F T D	D G W S -P M S S D	G G E D I T I M I N
Ara_thaATHB8	T G W G R Q P A A L	R A L S Q R L I S K G	F N E A V N G F S D	D G W S -I L E S D	G I DD V T L L V N
Ara_thaREVOLUTA	Y G l G R Q P A V L	R T F S Q R L I S R G	F N E A V N G F G D	D G W S -T M H C D	G A E D I I V A I N
Vit_vinHOX32-like	Y G GG G R Q P A V L	R T F S Q R L I C R G	F N E A V N G F A D	D G W S -L M G S D	G V E D V T I V I N
The_cacXP_007022870.1	Y G GG G R Q P A V L	R T F S Q R L I C R G	F N E A V N G F A D	D G W S -L M G S D	G V E D V T I M I N
Ory_satHOX32	Y G GG G R Q P A V L	R T F S Q R L I S R G	F N E A V N G F P D	D G W S -L M S S D	G A E D V T I A F N
Pru_perppa001343mg	P R U P E P P P A A V L	R T F C Q R L I C R G	F N E A V N G F A D	D G W S -L M G S D	G V E D V T I T I N
Bra_disHOX32-like	Y G GG G R Q P A V L	R T F S Q R L I S R G	F N E A V N G F L D	D G W S -L M S S D	G A E D V T I A I N
Pop_triPHABULOSA	Y G GG G R Q P A V L	R T F S Q R L I C R G	F N E A V N G F T D	D G W S -L L G S D	G G DD V T T I V I N
Pop_triPHABULOSAb	Y G GG G R Q P A V L	R T F S Q R L I C R G	F N E A V N G F T D	D G W S -L L D G D	G G DD V T T I V I N
Fra_vesHOX32-like	Y A G G R Q P A V L	R T F S Q R L I C R G	F N E A V N G F A D	D G W S -L L G S D	G A E D V T I A I N
Gly_maxATHB-14-like	Y G GG G R Q P A V L	R T F S Q R L I C R G	F N E A V N G F V D	D G W S -L M G S D	G V E D V T I A I N
Gly_maxREVOLUTA-like	Y G l G R Q P A V L	R T F S Q R L I C R G	F N E A V N G F F D	D G W S -L V N C D	G A E D V T I A I N
Gly_maxREVOLUTA-likeb	Y G l G R Q P A V L	R T F S Q R L I C R G	F N E A V N G F F D	D G W S -L V N C D	G A E D V T I A I N
Pru_perREV_IFL1	Y S l G R Q P A V L	R T F S Q R L I C R G	F N E A V N G F F D	D G W S -L L I N C D	G A E D V T I A I N
Ory_satHOX33	Y G AG G R Q P A V L	R T F S Q R L I C R G	F N E A V N G F F D	D G W S -L L S S D D	G S ED I T T S V N
Sol_tubATHB-14-like	Y T GG G R Q P A V L	R T F S Q R L I C R G	F N E A V N G F F D	D G W S -I T D S	G V E D V T I A I N
The_cacXP_007022872.1	Y T GG G R Q P A V L	R T F S Q R L I C R G	F N E A V N G F F D	D G W S -L L M G D D	G V E D V T I T I N
Ory_satHOX33-like	Y G AG G R Q P A V L	R T F S Q R L I C R G	F N E A V N G F F D	D G W S -L L S S D D	G S ED I T T S V N
Sol_lycREVOLUTA-like	Y S GG G R Q P A V L	R T F S Q R L I C R G	F N E A V N G F F D	D G W S -I T D S	G V E D V T I A I N
Sol_lycHOX32-like	Y S GG G R Q P A V L	R T F S Q R L I C R G	F N E A V N G F F D	D G W S -L L M G D D	G V E D V T I A I N
Gly_maxATHB-14-likec	Y G GG G R Q P A V L	R T F S Q R L I C K G	F N E A V N G F F D	D G W S -L M G N D D	G V E D V T I A I N
The_cacXP_007024277.1	Y G GG G R Q P A V L	R T F S Q R L I C K G	F N E A V N G F F D	D G W S -M M G N D D	G M D D V T I L V N
Vit_vinATHB-15-like	T G W G R Q P A V L	R A L S Q R L I S R G	F N E A V N G F F D	D G W S -M M G N D D	G G DD V T T I L V N
Ric_comXP_002515977.1	T N W G R Q P A V L	R A L S Q R L I S R G	F N E A V N G F F D	D G W S -M M G N D D	G G DD V T T I L V N
The_cacXP_007016751.1	Y G l G R Q P A V L	R T F S Q R L I C R G	F N E A V N G F F D	D G W S -I M N C D D	G A E D V T I A I N
Sol_tubHOX32-like	Y S GG G R Q P A V L	R T F S Q R L I C R G	F N E A V N G F F D	D G W S -L I T D S D	G V E D V T I A I N
Sol_lycATHB-14-like	Y A G G R Q P A V L	R T F S Q R L I C R G	F N E A V N G F F D	D G W S -I M N C D D	G V E D V T I A I N
Fra_vesREVOLUTA-like	Y S l G R Q P A V L	R T F S Q R L I C R G	F N E A V N G F F D	D G W S -L I T D S D	



AmTr_v1.0_scaffold00148.15	-QNVPPALLI	RFLREHRS E W	ADSNIDAYCA	ASLKANPFAI	PGSGPSRFTG
AmTr_v1.0_scaffold00056.60	-QNVPPALLI	RFLREHRS E W	ADSNIDAYSA	AALKSNPGTL	PTSRMGFF-G
AmTr_v1.0_scaffold00155.45	-QNVPPALLV	RFLREHRS E W	ADSGVDAYAA	SSMRTGQFVV	PGSRTGSGFP
Ara_thaPHABULOSA	-QNVPPAVLV	RFLREHRS E W	ADYGVDAYAA	ASLRASPFAV	PCARAGGFPS
Ara_thaATHB15	-QNVPPAILL	RFLREHRS E W	ADNNIDAYLA	AAVKVGPCS	--ARVGGF-G
Ara_thaPHAVOLUTA	-QNVPPVLVI	RFLREHRS E W	ADYGVDAYSA	ASLRATPYAV	PCVRTGGFPS
Ara_thaATHB8	-QNVPPSILL	RFLREHRS E W	ADNSIDAYSA	AAIKAGPCSL	PIP RPGSF-G
Ara_thaREVOLUTA	-QNVPPAVLI	RFLREHRS E W	ADFNVDAYSA	ATLKAGSFAY	PGMRPTTRFTG
Vit_vinHOX32-like	-QNVPPALLV	RFLREHRS E W	ADYGVDAYSA	ACLKASPYEV	PCARP GGFPS
The_cacXP_007022870.1	-QNVPPALLV	RFLREHRS E W	ADYGVDTYS	ACLKASPYAV	PCARP GGFPS
Ory_sathOX32	-QNVPPALLV	RFLREHRS E W	ADPGVDAYSA	AALRASPYAV	PGLRAGGFMG
Pru_perppa001343mg	-QSVPPALLV	RFLREHRS E W	ADYGVDAYSA	ACLKASPYAV	PCARP GGFPS
Bra_disHOX32-like	-QNVPPALLV	RFLREHRS E W	ADPGVDAYSA	AALRASPYAV	PGLRASGFGM
Pop_triPHABULOSA	-QNVPPALLV	RFLREHRS E W	ADYGVDAYSA	ACLKASPYAV	PCARP GGFPS
Pop_triPHABULOSAb	-QNVPPALLV	RFLREHRS E W	ADYGVDVYSA	ACLKASPYAV	PCARP GGFPS
Fra_vesHOX32-like	-QSVPPALLV	RFLREHRS E W	ADYGVDAYSA	ACLKASPYAV	PCARP GGFPS
Gly_maxATHB-14-like	-QNVPPALLV	RFLREHRS E W	ADYGVDAYSA	ACLKASPYAV	PCARP GGFPS
Gly_maxREVOLUTA-like	-QNVPPAVLV	RFLREHRS E W	ADFNVDAYSA	ASLKAGTYAY	PGMRPTTRFTG
Gly_maxREVOLUTA-likeb	-QNVPPAVLV	RFLREHRS E W	ADFSVDAYSA	ASLKAGTYAY	PGMRPTTRFTG
Pru_perREV_IFL1	-QNVPPAVLV	RFLREHRS E W	ADFNVDAYSA	ASLKAGSYAY	PGMRPTTRFTG
Ory_sathOX33	-QNVPPALLV	RFLREHRS E W	ADPGVDAYSA	ASLRASPYAV	PGLRTSGFGM
Sol_tubATHB-14-like	-QNVPPALLV	RFLREHRS E W	ADYGVDAYSS	ASLKASPYAV	PCARP GGFPS
The_cacXP_007022872.1	-QNVPPALLV	RFLREHRS E W	ADYGVDTYS	ACLKASPYAV	PCARP GGFPS
Ory_sathOX33-like	-QNVPPALLV	RFLREHRS E W	ADPGVDAYSA	ASLRASPYTV	PGLRTSGFGM
Sol_lycREVOLUTA-like	-QNVPPAVLV	RFLREHRS E W	ADFNDAFVA	SALKSCPETY	PGMRPTTRFTG
Sol_lycHOX32-like	-QNVPPALLV	RFLREHRS E W	ADYGVDAYSS	ASLKASPYAV	PCARP GGFPS
Gly_maxATHB-14-likeb	-QNVPPALLV	RFLREHRS E W	ANYGVDAYSS	ACLKASPYAV	PCARP SGFPS
Pop_triXP_006378973.1	-QNVPPAVLV	RFLREHRS E W	ADFSVDAYSA	ASLKAGSYAY	PGMRSMRFTG
Ory_satAC \bar{A} 64837.1	-QNVPPALLV	RFLREHRS E W	ADPGVDAYSA	ASLRASPYAV	PGLRTSGFGM
Vit_vin013992	-QNVPPAVLV	RFLREHRS E W	ADFSVDAYSA	ASLKASPYSY	PGMRPTTRFTG
Ory_satOsJ_11861	-QNVPPALLV	RFLREHRS E W	ADPGVDAYSA	AALRASPYAV	PGLRAGGFMG
Sol_tubREVOLUTA-like	-QNVPPAVLV	RFLREHRS E W	ADFNDAFVA	SALKSCPETY	PGMRPTTRFTG
Gly_maxATHB-14-likec	-QNVPPALLV	RFLREHRS E W	ADYEVDAYSS	ACLKASPYAV	PCARP SGFPS
The_cacXP_007024277.1	-QNVPPAILL	RFLREHRS E W	ADSSIDAYSA	AAVKVGPCSL	PGSRVGGF-G
Vit_vinATHB-15-like	F QNVPPAILL	RFLREHRS E W	ADNNIDAYSA	AAVKVGPCSL	PGSRVGSF-G
Ric_comXP_002515977.1	-QNVPPAILL	RFLREHRS E W	ADNNIDAYSA	AAIKVGPCTL	PGTRIGSF-G
The_cacXP_007016751.1	-QNVPPAVLV	RFLREHRS E W	ADFNVDAYSA	ASLKAGTYSY	PGMRPTTRFTG
Sol_tubHOX32-like	-QNVPPALLV	RFLREHRS E W	ADYGVDAYSS	ASLKASPYAV	PCARP GGFPS
Sol_lycATHB-14-like	-QDVCPALLV	RFLREHRS E W	ADYGVDAYSS	ASLKASPYAV	PCARP GVFPS
Sol_tubATHB-14-like_X1	-QDVCPALLV	RFLREHRS E W	ADYGVDAYSS	ASLKASPYAV	PCARP GVFPS
Med_truATHB-14	-QNVPPALLV	RFLREHRS E W	ADYGVDAYSA	TCLKSSPYAV	PCPRPGGFPS
Zea_mayNP_001142394.1	-QNVPPALLV	RFLREHRS E W	ADPGIDAYSV	ASLRANPYTV	PGLRAGGFMG
Vit_vinREVOLUTA	-QNVPPAVLV	RFLREHRS E W	ADFSVDAYSA	ASLKASPYSY	PGMRPTTRFTG
Ory_braHOX32-like	-QNVPPALLV	RFLREHRS E W	ADPGVDAYSA	AALRASPYAV	PGLRAGGFMG
Ric_comXP_002529946.1	-QNVPPAVLV	RFLREHRS E W	ADFNVDAYSA	ASLKAGSYAF	PGMRPTTRFTG
Tha_cacXP_007016749.1	-QNVPPAVLV	RFLREHRS E W	ADFNVDAYSA	ASLKAGTYSY	PGMRPTTRFTG
Fra_vesREVOLUTA-like	-QNVPPAVLV	RFLREHRS E W	ADFNVDAYSA	ASLKSGSYAY	PGMRPTTRFTG
Zea_mayNP_001146215.1	-QNVPPALLV	RFLREHRS E W	ADPGVDAYSA	ASLRANPYNV	PGLRAGGFMG
The_cacXP_007012152.1	-QNVPPAILL	RFLREHRS E W	ADSGIDAYSA	AAVKAGPCSL	PVSRGGF-G
Pru_perppa001386mg	-QNVPPAILL	RFLREHRS E W	ADSGIDAYSA	AAIKKGPGCGL	LGSRAGGF-G
Pop_triAAX19057.1	-QNVPPAILL	RFLREHRS E W	ADSGIDAYAA	AAVKAGPCSL	PMSRAGNF-G
Pop_triXP_002309538.2	-QNVPPAILL	RFLREHRS E W	ADSGIDAYAA	AAVKAGPCSL	PMSRAGNF-G
Fra_vesATHB-8-like	-QNVPPAILL	RFLREHRS E W	ADSGIDAYSA	AAIKAGPCSL	IGSRAGSF-G
Pop_triXP_002324794.1	-QNVPPAILL	RFLREHRS E W	ADSSIDAYSA	SAIKAGPCSL	PVSRAGNF-G
Vit_vin009744	-QNVPPAILL	RFLREHRS E W	ADSSIDAYSA	AAVKAGPCCTL	PVSRAGGY-G
Gly_maxATHB-8-like	-QNVPPAILL	RFLREHRS E W	ADNGIDAYAA	AAIKAGPCSL	PGARP GGF-G
Sol_lycATHB-15-like	-QNVPPPILL	RFLREHRS E W	ADSGIDAYSA	AAIKAGPCSI	PVTRTGSF-G
Gly_maxATHB-8-likeb	-QNVPPAILL	RFLREHRS E W	ADSSIDAYSA	AAIKAGPCSL	PGARSGGF-G
Med_truXP_003603630.1	-QNVPPAILL	RFLREHRS E W	ADTSIDAYSA	AAIKAGPCSL	PGARTGAF-G

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AmTr_v1.0_scaffold00148.15	SQIILPLAHT	VENEE	-	-	-	FLEV	I RLEGHGFHQ	E EAVVC	RDL
AmTr_v1.0_scaffold00056.60	GQVILPLAHT	VEHEE	-	-	-	FLEV	I KLEGHGLVQ	D DSIIP	RDM
AmTr_v1.0_scaffold00155.45	SQVILPLAQT	VEHEE	-	-	-	FLEV	I RLEGHGFQS	D DAVLP	RDM
Ara_thaPHABULOSA	NQVILPLAQT	VEHEE	-	-	-	SLEV	V RLEGHAYSP	E DMGLA	RDM
Ara_thaATHB15	GQVILPLAHT	I EHEE	-	-	-	FMEV	I KLEGGLGHSP	E DAIVP	RDI
Ara-thaPHAVOLUTA	NQVILPLAQT	LEHEE	-	-	-	FLEV	V RLGGHAYSP	E DMGLS	RDM
Ara_thaATHB8	GQVILPLAHT	I EHEE	-	-	-	FMEV	I KLESGLHYQ	E DMMMP	ADI
Ara_thaREVOLUTA	SQIIMPLGHT	I EHEE	-	-	-	MLEV	V RLEGHSLAQ	E DAIFMS	RDV
Vit_vinHOX32-like	SQVILPLAHT	VEHEE	-	-	-	FLEV	V RLEGHAFSP	E DVALT	RDM
The_cacXP_007022870.1	SQVILPLAHT	VEHEE	-	-	-	FLEV	V RLEGHAFTP	E DVALA	RDM
Ory_satHOX32	SQVILPLAHT	LEHEE	-	-	-	FLEV	I RLEGHSLCH	DEVVLS	RDM
Pru_perppa001343mg	SQVILPLAQT	VENEE	-	-	-	FLEV	V RLEGHAFSP	E DVALA	RDM
Bra_disHOX32-like	SQVILPLAHT	LEHEE	-	-	-	FLEV	I RLEGHSLCH	DEVVLS	RDM
Pop_triPHABULOSA	SQVILPLAHT	MEHEE	-	-	-	FLEV	V RLEGHAFSP	E DVALA	RDM
Pop_triPHABULOSAb	SQVILPLAHT	VEHEE	-	-	-	FLEV	V RLEGHAFSP	E DVALA	QDM
Fra_vesHOX32-like	SQVILPLAHT	VENEE	-	-	-	FLEV	V RLEGHAYSP	E DVALA	RDM
Gly_maxATHB-14-like	TQVILPLAHT	I EHEE	-	-	-	FLEV	V RI EGHAFSP	E DVAMA	RDM
Gly_maxREVOLUTA-like	SQIIMPLGHT	I EHEE	-	-	-	MLEV	I RLEGHSLAQ	E DAFVS	RDI
Gly_maxREVOLUTA-likeb	SQIIMPLGHT	I EHEE	-	-	-	MLEV	I RLEGHSLAQ	E DAFVS	RDI
Pru_perREV_IFL1	GQIIMPLGHT	I EHEE	-	-	-	LLEV	V RLEGHSLTQ	E DAFAS	RDI
Ory_satHOX33	SQVILPLAHT	LEHEE	-	-	-	FLEV	I RLEGHGFSH	DEVLLS	RDM
Sol_tubATHB-14-like	SQVILPLAQT	VEHEE	-	-	-	FLEV	V RLEGPAPFSP	E DIALS	RDM
The_cacXP_007022872.1	SQVILPLAHT	VEHEE	-	-	-	FLEV	V RLEGHAFTP	E DVALA	RDM
Ory_satHOX33-like	SQVILPLAHT	LEHEE	-	-	-	FLEV	I RLEGHGFSH	DEVVLS	RDM
Sol_lycREVOLUTA-like	SQIIMPLGHT	I EHEE	-	-	-	MLEV	I RLEGHSIGQ	E DAFMP	RDI
Sol_lycHOX32-like	SQVILPLAQT	VEHEE	-	-	-	FLEV	V RLEGPAPFSP	E DIALS	RDM
Gly_maxATHB-14-likeb	SHVIIPLAHT	I EHEE	-	-	-	FLEV	V RI EGNNAFPP	DDVALA	CDM
Pop_trixP_006378973.1	SQIIMPLGHT	I EHEE	-	-	-	LLEV	I RLEGHSFAQ	E DAFVS	RDI
Ory_satAC64837.1	SQVILPLAHT	LEHEE	-	-	-	FLEV	I RLEGHGFSH	DEVLLS	RDM
Vit_vin013992	SQIIMPLGHT	I EHEE	-	-	-	LLEV	I RLEGHSLAH	E DAFMS	RDI
Ory_satOsJ_11861	SQVILPLAHT	LEHEE	-	-	-	FLEV	I RLEGHSLCH	DEVVLS	RDM
Sol_tubREVOLUTA-like	SQIIMPLGHT	I EHEE	-	-	-	MLEV	I RLEGHSIGQ	E DAFMP	RDI
Gly_maxATHB-14-likec	SHVIIPLAHT	I EHEE	-	-	-	FLEV	V RI EGNNAFPP	DDVAWA	CDM
The_cacXP_007024277.1	GQVILPLAHT	I EHEE	-	-	-	FLEV	I KLEGVAHSP	E DAIMP	RDV
Vit_vinATHB-15-like	SQVILPLAHT	I EHEE	-	-	-	FLEV	I KLEGVGHC	E DAMMP	RDM
Ric_comXP_002515977.1	GQVILPLAHT	I EHEE	-	-	-	FLEV	I KLEGAGHSP	E DPIMP	RDM
The_cacXP_007016751.1	SQIIMPLGHT	I EHEE	-	-	-	LLEV	I RLEGHSLAQ	E DAFLS	RDI
Sol_tub	SQVILPLAQT	VEHEE	-	-	-	FLEV	V RLEGPAPFSP	E DIALS	RDM
Sol_lycATHB-14-like	SQVILPLAQT	VEHEE	-	-	-	FLEV	V RLEGHAFSP	E DIALS	RDM
Sol_tubATHB-14-like_X1	SQVILPLAQT	VEHEE	-	-	-	FLEV	V RLEGHAFSP	E DIALS	RDM
Med_truATHB-14	SQVILPLAHT	I EHEE	-	-	-	FLEV	V RI EGHAFSP	E DVALA	RDM
Zea_mayNP_001142394.1	NQVILPLAQT	LEHEE	-	-	-	SLEV	I RLEGHGFSH	EEVLMS	RDM
Vit_vinREVOLUTA	SQIIMPLGHT	I EHEE	-	-	-	LLEV	I RLEGHSLAH	E DAFMS	RDI
Ory_braHOX32-like	SQVILPLAHT	LEHEE	-	-	-	FLEV	I RLEGHSLCH	DEVVLS	RDM
Ric_comXP_002529946.1	SQIIMPLGHT	I EHEE	-	-	-	LLEV	I RLEGHSLVQ	E DAFVS	RDI
Tha_cacXP_007016749.1	SQIIMPLGHT	I EHEE	-	-	-	LLEV	I RLEGHSLAQ	E DAFLS	RDI
Fra_vesREVOLUTA-like	GQIIMPLGHT	I EHEE	-	-	-	LLEV	V RLEGHSFSQ	E EAFAS	RDI
Zea_mayNP_001146215.1	NQVILPLAQT	VEHEE	-	-	-	CLEV	I RLEQGHGFSH	DEVLMS	PDM
The_cacXP_007012152.1	GQVILPLAHT	I EHEE	-	-	-	FMEV	I KLENMGHYR	DDMIMP	GDI
Pru_perppa001386mg	DQVIHPLAHT	I EHEE	-	-	-	FMEV	I KLENMGHYR	EDMIMA	ADI
Pop_triaAX19057.1	GQVILPLAHT	I EHEEAS	-	-	-	TSFMEV	I KLENMGY-R	EDMLMP	GDV
Pop_trixP_002309538.2	GQVILPLAHT	I EHEEAS	-	-	-	TSFMEV	I KLENMGY-R	EDMLMP	GDV
Fra_vesATHB-8-like	DQVIHPLAHT	I EHEE	-	-	-	FMEV	I KLENMGY-R	DDMMMPAA	ADI
Pop_trixP_002324794.1	GQVILPLAHT	I EHEE	-	-	-	FMEV	I KLENMGY-R	EDMLMP	GDV
Vit_vin009744	GQVILPLAHT	I EHEEANLIR	FNCLQQFMEV	-	-	AKV	I KLENVDHYR	EDLMMS	GDV
Gly_maxATHB-8-like	GQVILPLAHT	I EHEE	-	-	-	FMEV	I KLENMGYYR	DDMNIP	GDV
Sol_lycATHB-15-like	GQVILPLAHT	I EHEE	-	-	-	FMEV	I KLENMGYYR	DDMSIP	GDV
Gly_maxATHB-8-likeb	GQVILPLAHT	I EHEE	-	-	-	FMEV	I KLENMGYYR	DDMTMP	GDV
Med_truXP_003603630.1	GQVILPLAHT	I EHEE	-	-	-	FMEV	I KLENMGYYR	DDMTMP	GDV

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AmTr_v1.0_scaffold00148.15	YLLQLCSGVD	ENAVGAI S QL	VFAPI D DSFA	DDA P LLPSGF	RVI P LDSKT
AmTr_v1.0_scaffold00056.60	FLLQLCSGVD	ENAVGAC A EL	VFAPI D PSFA	DDA P LLPSGF	RII I PLDNGV
AmTr_v1.0_scaffold00155.45	FLLQLCSGVD	ENAVGAC A QL	VFAPI D ESFA	DDA P LLPSGF	RVI I PLDSKS
Ara_thaPHABULOSA	YLLQLCSGVD	ENVVGGCA Q L	VFAPI D ESFA	DDA P LLPSGF	RII I PLEQKS
Ara_thaATHB15	FLLQLCSGMD	ENAVG T CAEL	IFAPI D ASFA	DDA P LLPSGF	RII I PLDSAK
Ara_thaPHAVOLUTA	YLLQLCSGVD	ENVVGGCA Q L	VFAPI D ESFA	DDA P LLPSGF	RVI I PLDQKT
Ara_thaATHB8	FLLQMCSGVD	ENAV E CAEL	IFAPI D AS S	DDA P II P SGF	RII I PLDSKS
Ara_thaREVOLUTA	HLLQICTGID	ENAVGAC C EL	IFAPI N EMFP	DDA P LVPSGF	RVI P VDAKT
Vit_vinHOX32-like	YLLQLCSGVD	ENAA G ACAQL	VFAPI D ESFA	DDA P LLPSGF	RVI P LDPKT
The_cacXP_007022870.1	YLLQLCSGID	ENAVGAC A QL	VFAPI D ESFA	DDA P LLPSGF	RVI P LDPKTV
Ory_satHOX32	YLLQLCSGVD	ENAA G ACAQL	VFAPI D ESFA	DDA P LLPSGF	RVI P LDGKT
Pru_perppa001343mg	YLLQLCSGVD	ENAVG C CAQL	VFAPI D ESFA	DDA P LLPSGF	HVI P LDPKT
Bra_disHOX32-like	YLLQLCSGVD	ENAA G ACAQL	VFAPI D ESFA	DDA P LLPSGF	RVI P LDAKT
Pop_triPHABULOSA	YLLQLCSGVD	ENAVGAC A QL	VFAPI D ESFA	DDA P LLSSGF	RVI P LDPKT
Pop_triPHABULOSAb	YLLQLCSGVD	ENALGAC A QL	VFAPI D ESFA	DDA P LLPSGF	RVI P LDPKT
Fra_vesHOX32-like	FLLQMCSGVD	ENAVG C CAQL	VFAPI D ESFA	DDA P LLPSGF	HVI P LDAKT
Gly_maxATHB-14-like	YLLQLCSGVD	ESAVGAC A QL	VFAPI D ESFA	DDA P LLPSGF	RVI P LDPKS
Gly_maxREVOLUTA-like	HLLQICSGID	ENAVG C SEL	VFAPI D EMFP	DDA P LVPSGF	RII I PLDSKP
Gly_maxREVOLUTA-likeb	HLLQICSGID	ENAVG C SEL	VFAPI D EMFP	DDA P LIPSGF	RII I PLDSKP
Pru_perREV_IFL1	HLLQICSGVD	ENAVG C SEL	VFAPI D EMFP	DDA P LVPSGF	RII I PLDSKT
Ory_satHOX33	YLLQLCSGVD	ENAT S ASAQL	VFAPI D ESFA	DDA P LLPSGF	RVI P LDTKM
Sol_tubATHB-14-like	YLLQLCSGVD	ENAA G ACAQL	VFAPI D ESFG	DDA P LIPSGF	RVI P LEPKS
The_cacXP_007022872.1	YLLQLCSGID	ENAVGAC A QL	VFAPI D ESFA	DDA P LLPSGF	RVI P LDPKTV
Ory_satHOX33-like	YLLQLCSGVD	ENAT S ASAQL	VFAPI D ESFA	DDA P LLPSGF	RVI P LDTKM
Sol_lycREVOLUTA-like	HLLQMCSGT	ENAVG C SEL	VFAPI D EMFP	DDA P LLPSGF	RII I PLESKS
Sol_lycHOX32-like	YLLQLCSGVD	ENAA G ACAQL	VFAPI D ESFG	DDA P LLPSGF	RVI P LEPKS
Gly_maxATHB-14-likeb	YLMQLCSGID	ENAI G ACAQL	VFAPI D ESFA	DDA P LLPSGF	RII I PLDPKT
Pop_triXP_006378973.1	HLLQICSGID	ENAVG C SEL	VFAPI D EMFP	DDA P LLPSGF	RVI P LESKT
Ory_satACa64837.1	YLLQLCSGVD	ENAT S ASAQL	VFAPI D ESFA	DDA P LLPSGF	RVI P LDTKM
Vit_vin013992	HLLQICSGVD	ENAVG C SEL	VFAPI D EMFP	DDA P LLPSGF	RII I PLDSKS
Ory_satOsJ_11861	YLLQLCSGVD	ENAA G ACAQL	VFAPI D ESFA	DDA P LLPSGF	RVI P LDGKT
Sol_tubREVOLUTA-like	HLLQMCSGT	ENAVG C SEL	VFAPI D EMFP	DDA P LLPSGF	RII I PLESKS
Gly_maxATHB-14-likec	YLMQLCSGID	ENAI G ACAQL	VFAPI D ESFA	DDA P LLPSGF	RII I PLDPKT
The_cacXP_007024277.1	FLLQLCSGMD	ENAV T CAEL	IFAPI D ASFA	DDA P LLPSGF	RII I PLDSGK
Vit_vinATHB-15-like	FLLQLCSGMD	ENAV T CAEL	IFAPI D ASFA	DDA P LLPSGF	RII I PLDSGK
Ric_comXP_002515977.1	FLLQLCSGMD	ENAV T CAEL	IFAPI D ASFA	DDA P LLPSGF	RII I PLDSAK
The_cacXP_007016751.1	HLLQICSGID	ENAVG C SEL	VFAPI D EMFP	DDA P LLPSGF	RII I PLDSKP
Sol_tubHOX32-like	YLLQLCSGVD	ENAA G ACAQL	VFAPI D ESFG	DDA P LLPSGF	RVI P LEPKS
Sol_lycATHB-14-like	YLLQLCSGVE	ENAT S ACAQL	VFAHI D ESFG	DDA P LLPSGF	SVI P LEPKS
Sol_tubATHB-14-like_X1	YLLQLCSGVE	ENAT S ACAQL	VFAHI D ESFG	DDA P LLPSGF	SVI P LEPKS
Med_truATHB-14	YLLQLCSGID	ENAVG C SEL	VFAHI D ESFG	DDA P LLPSGF	SVI P LEPKS
Zea_mayNP_001142394.1	FLLQLCSGVD	EDAP G ACAQL	VFAPI D ESFA	DDA P LLPSGF	RVI P LDPKS
Vit_vinREVOLUTA	HLLQICSGVD	ENAVG C SEL	VFAPI D EMFP	DDA P LLPSGF	RVI P LDGKT
Ory_braHOX32-like	YLLQLCSGVD	ENAA G ACAQL	VFAPI D ESFA	DDA P LLPSGF	RVI P LDAKA
Ric_comXP_002529946.1	HLLQICSGID	ENAVG C SEL	VFAPI D EMFP	DDA P LLPSGF	RII I PLDSKT
Tha_cacXP_007016749.1	HLLQICSGID	ENAVG C SEL	VFAPI D EMFP	DDA P LLPSGF	RII I PLDSKS
Fra_vesREVOLUTA-like	HLLQICSGVD	ENAVG C SEL	FFAPI D EMFP	DDA P LLPSGF	RII I PLESKT
Zea_mayNP_001146215.1	FLLQLCSGID	EDAP G ACAQL	VFAPI D ESFA	DDA P LLPSGF	RVI P LDGKT
The_cacXP_007012152.1	FLLQLCSGVD	ENAV T CAEL	IFAPI D ASFA	DDA P II P SGF	RII I PLDSGM
Pru_perppa001386mg	FLLQLCSGVD	ENSV G ACAQL	VFAPI D ASFA	DDGPILPSGF	RII I PLDSRM
Pop_triAAX19057.1	FLLQLCSGVD	ENAV T CAEL	IFAPI D ASFA	DDA P II P SGF	RII I PLDSGM
Pop_triXP_002309538.2	FLLQLCSGVD	ENAV T CAEL	IFAPI D ASFA	DDA P II P SGF	RII I PLDSGM
Fra_vesATHB-8-like	FLLQLCSGVD	ENAV T CAEL	IFAPI D ASFA	DDA P II P SGF	RII I PLDSGM
Pop_triXP_002324794.1	FLLQLCSGVD	ENAV T CAEL	IFAPI D ASFA	DDA P II P SGF	RII I PLDSGM
Vit_vin009744	FLLQLCSGVD	DNAVG T SEL	IFAPI D ASFA	DDA P LLPSGF	RVI P LDGSV
Gly_maxATHB-8-like	FLLQLCSGVD	EHAVG T SAEL	VFAPI D ASFA	DDA P ILPSGF	RII I PLDSGT
Sol_lycATHB-15-like	FLLQLCNGVD	ENAI G TCSEL	MFAPI D ASFA	DDA P LLPSGF	RII I PLDSKA
Gly_maxATHB-8-likeb	FLLQLCSGVD	EHAVG T SAEL	VFAPI D ASFA	DDA P ILPSGF	RII I PLDSGT
Med_truXP_003603630.1	FLLQLCSGVD	EHAVG T SAEL	IFAPI D ASFA	DDA P ILPSGF	RII I PLESGT

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AmTr_v1.0_scaffold00148.15	----	NPQDNT	AAA	IRTLDDL	TSSLDIGSA	-	TNRASGDGG	GPNSCNNLRS
AmTr_v1.0_scaffold00056.60	-----	DG	SSP	NRTLDL	ASALEVGPA	-	GNRISGEFA	GGSGS--LRS
AmTr_v1.0_scaffold00155.45	-----	DG	PGT	NRTLDL	ASSIDVGST	-	GSRPSCESG	A-NGY-TMRS
Ara_thaPHABULOSA	-----	TPNG	ASA	NRTLDL	ASALE-	-G	STRQAGEAD	P-NGC-NFRS
Ara_thaATHB15	-----	EV	SSP	NRTLDL	ASALEIGSA	-	GTKASTDQS	GNSTC-ARS
Ara_thaPHAVOLUTA	-----	NPNDH	QSA	SRTDL	ASSLD-	-G	STKTDSET-	-NSRL
Ara_thaATHB8	-----	EG	LSP	NRTLDL	ASALDVG	-	SRTAGDSC	GSRGN-SKS
Ara_thaREVOLUTA	-----	GDVQDL	LTANHRTLDL	TSSLEVGPS	-	PENASGNS	-FSSSSSRC	
Vit_vinHOX32-like	-----	DG	PAA	TRTLDDL	ASTLEVGAG	-	GARPANESD	L-NNY-NLRS
The_cacXP_007022870.1	-----	TLTCQSSADG	AGA	TRTLDDL	ASALEVGPG	-	SNRLAGDGD	P-SNY-NLRS
Ory_sathOX32	-----	DA	PSA	TRTLDDL	ASTLEVGSG	-	GTTRASSDT	S-STC-NTRS
Pru_perppa001343mg	-----	DG	PTA	NRTLDL	ASTLEVGPG	-	GSRPVNHEAD	G-NSY-NLRS
Bra_dishOX32-like	-----	DA	PSA	TRTLDDL	ASTLEVGSG	-	GTRAASADA	-PSTSNTRS
Pop_triPHABULOSA	-----	DA	PAT	TRTLDDL	ASTLEVGPG	-	GTRPASEAD	T-NSY-NLRS
Pop_triPHABULOSAb	-----	DA	PAA	TRTLDDL	ASTLEVGPG	-	GARPACEAD	T-NSY-NLRS
Fra_vesHOX32-like	-----	DG	PAT	NRTLDL	ASTLEVGAS	-	SARRVNEGD	A-NSY-NLRS
Gly_maxATHB-14-like	-----	DG	PAP	TRTLDDL	ASTMEVGSG	-	NARPAGEAD	L-NGY-NLRS
Gly_maxREVOLUTA-like	-----	GDKKDA	VAT	NRTLDL	TSGFEVGPA	-	TTAGADA	-SSSQNTRS
Gly_maxREVOLUTA-likeb	-----	GDKKEV	ATN	RTLDL	TSGFEVGPA	-	TTAGTDA	-SSSQNTRS
Pru_perREV_IFL1	-----	SDSKDT	LAT	HRTLDL	TSSLEVGST	-	TNNAAJEL	-SSFHNTRS
Ory_sathOX33	-----	DG	PSA	TRTLDDL	ASALEVGPG	-	GASRASVEA	S-GTC--NRS
Sol_tubATHB-14-like	-----	DV	PAA	TRTLDDL	ASTLEAGTGG	-	SGTRPAGEIE	A-GNY-NHRS
The_cacXP_007022872.1	-----	TLTCQSSADG	AGA	TRTLDDL	ASALEVGPG	-	SNRLAGDGD	P-SNY-NLRS
Ory_sathOX33-like	-----	DV	PSA	TRTLDDL	ASALEVGPG	-	GASRASTDA	S-GVC--NRS
Sol_lycREVOLUTA-like	-----	GDAQDT	LNA	HRTLDL	ASSLEVGP	-	TNSTTGDA	-ASCYSARS
Sol_lycHOX32-like	-----	DV	PAA	TRTLDDL	ASTLEAGTGG	-	SGTRPAGEIE	A-GNY-NHRS
Gly_maxATHB-14-likeb	-----	DG	PAS	TRTLDDL	ASTLETGSG	-	NARSAGESD	L-NNY-NLRS
Pop_trixP_006378973.1	-----	KDAQE	LTT	NRTLDL	TSSLEVGPV	-	TNHSATGDM	-SSC-HLRS
Ory_satAC64837.1	-----	DG	PSA	TRTLDDL	ASALEVGPG	-	GASRASVEA	S-GTC--NRS
Vit_vin013992	-----	GDTQET	LTT	HRTLDL	TSSLEVGP	-	TNQAAGDS	-SSCYNTRS
Ory_satOsJ_11861	-----	DA	PSA	TRTLDDL	ASTLEVGSG	-	GTTRASSDT	S-STC-NTRS
Sol_tubREVOLUTA-like	-----	GDAQDT	LNA	HRTLDL	ASSLEVGP	-	RNSATGDM	-ASCYSARS
Gly_maxATHB-14-likec	-----	DG	LAS	TRTLDDL	ASTLETGSG	-	NARSAGESD	S-NNY-NLRS
The_cacXP_007024277.1	-----	EA	SSP	NRTLDL	ASALEIGPT	-	GNKASNDYS	GNSGC--MRS
Vit_vinATHB-15-like	-----	EA	SSP	NRTLDL	ASALEIGPA	-	GNRSSNDYS	VNGGN--TRS
Ric_comXP_002515977.1	-----	EA	SSP	NRTLDL	ASALEIGPA	-	GNKSSSTDYS	SNSGC--MRS
The_cacXP_007016751.1	-----	SDTQDS	LTT	NRTLDL	TSSLEVGT	-	TNHAAGDA	-PSCQNSRS
Sol_tubHOX32-like	-----	DV	PAA	TRTLDDL	ASTLEAGTGG	-	SGTRPAGEIE	A-GNY-NHRS
Sol_lycATHB-14-like	-----	DS	PSA	ARTLDL	ASTLEARTG	-	GTRPAGEVE	G-SSY-NHRS
Sol_tubATHB-14-like_X1	-----	DS	PSA	ARTLDL	ASTLEARTG	-	GTRALAGEVE	G-RSY-NHRS
Med_truATHB-14	-----	DG	PTT	SRTLDL	LE	-	NARPSGEA	GSNGY-NLRS
Zea_mayNP_001142394.1	-----	DV	PTATTTRTLDD	ASALEVGSG	-	GSGMRASCD	GSGTC-ATRS	
Vit_vinREVOLUTA	-----	GDTQET	LTT	HRTLDL	TSSLEVGP	-	TNQAAGDS	-SSCYNTRS
Ory_braHOX32-like	-----	DA	PSA	TRTLDDL	ASTLEVGSG	-	GTTRASSDT	S-GTC-NTRS
Ric_comXP_002529946.1	-----	KDTQDA	LTT	SRTLDL	TSSLEVGP	-	ANNTAGDA	-SSSQSTRS
Tha_cacXP_007016749.1	-----	SDTQDS	LTT	NRTLDL	TSSLEVGT	-	TNHAAGDA	-PSCQNSRS
Fra_vesREVOLUTA-like	-----	SDSKDA	LAT	HRTLDL	TSSLEVGST	-	TNHNAGDL	-NSFHNTRS
Zea_mayNP_001146215.1	-----	DV	PSA	TRTLDDL	ASALEVGSG	-	GGICALSDS	G-SGTRSTRS
The_cacXP_007012152.1	-----	DA	SSP	NRTLDL	ASTLEVGA	-	GNRATGDHS	GRCGS-TKS
Pru_perppa001386mg	-----	DA	PSP	NRTLDL	ASALEVGPA	-	GSRASGDNA	GHSGN-TKS
Pop_triaAX19057.1	-----	DA	SSP	NRTLDL	ASALEVGPA	-	GNRASGDLS	GRSGC-TKS
Pop_trixP_002309538.2	-----	DA	SSP	NRTLDL	ASALEVGPA	-	GNRASGDLS	GRSGC-TKS
Fra_vesATHB-8-like	-----	DA	PSP	NRTLDL	ASALEVGPT	-	GNRSSGDIA	GHCGS-TKS
Pop_trixP_002324794.1	-----	DA	SSP	NRTLDL	ASALEVGPA	-	GNRASGDLS	GRSGC-TKS
Vit_vin009744	-----	DG	SSP	NRTLDL	ASSLEVGP	-	GNKASSDNS	GHTGS-AKS
Gly_maxATHB-8-like	-----	DA	ASP	NRTLDL	ASALEVGTT	-	ANKAAGDNS	GHSGS-TKS
Sol_lycATHB-15-like	-----	DA	SSP	NRTLDL	ASALEVGPA	-	GSRPTGDHS	KNSGS-AKS
Gly_maxATHB-8-likeb	-----	DA	ASP	NRTLDL	ASALEVGTT	-	ANKAASDNS	AHSGS-TKS
Med_truXP_003603630.1	-----	DA	ASP	NRTLDL	ASALEVGTT	-	GNKAGGDNS	GHSGI-TKS

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AmTr_v1.0_scaffold00148.15	VLTIAFQFTF	EPH---MRDN	VVAMARQYVR	GIVGVSQRVA	MAISPSRIGP
AmTr_v1.0_scaffold00056.60	VLTIAFQFSY	ENNHEQIRDN	VATMARQYVR	SIVISSQRVA	MALTPSPRLNP
AmTr_v1.0_scaffold00155.45	VLTIAFQFTY	ETH---SRDN	VASMARQYVR	SVMASQRVVA	MAISPSPMGP
Ara_thaPHABULOSA	VLTIAFQFTF	DNH---SRDN	VASMARQYVR	SIVGSIQRVA	LAIAP-RPGS
Ara_thaATHB15	VMTIAFQFGI	ESH---MQEH	VASMARQYVR	GISSVQRVA	LALSPSHIIS
Ara_thaPHAVOLUTA	VLTIAFQFTF	DNH---SRDN	VATMARQYVR	NVVGSIQRVA	LAITTPRPR---
Ara_thaATHB8	VMTIAFQLAF	EMH---MQEN	VASMARQYVR	SVIASQRVA	LALSPSSH-Q
Ara_thaREVOLUTA	ILTIAFQFPF	ENN---LQEN	VAGMACQYVR	SVISSVQRVA	MAISPSGISP
Vit_vinHOX32-like	VLTIAFQFTF	ENH---VRDN	VAAMARQYVR	SVMASQRVVA	MAIAPSRLSS
The_cacXP_007022870.1	VLTIAFQFTF	ENH---LRDN	VAAMARQYVR	SVVGSVQRVA	MAIAPSRLSS
Ory_satHOX32	VLTIAFQFSY	ENH---LRES	VAAMARQYVR	TVVASVQRVA	MAIAPSRLGG
Pru_perppa001343mg	VLTIAFQFTF	ENH---LRDN	VAAMARQYVR	SVVSSVQRVA	MAIAPSRLSS
Bra_disHOX32-like	VLTIAFQFSY	ENH---LRES	VA SM ARQYVR	TVVASVQRVA	MAIAPSRLGG
Pop_triPHABULOSA	VLTIAFQFSF	ENH---MRDN	VAAMARQYVR	GVVGVSQRVA	MAIAPSRLSS
Pop_triPHABULOSAb	VLTIAFQFTF	ENH---FRDN	VAAMARQYVR	GVVASVQRVA	MAISPSRLSS
Fra_vesHOX32-like	VLTIAFQFTF	ENH---MRDS	VAAMARQYVR	GVVSSVQRVA	MAIAPSRLSS
Gly_maxATHB-14-like	VLTIAFQFTF	ENH---TRDN	VAAMARQYVR	SVVGSVQRVA	MAIAPSRLNT
Gly_maxREVOLUTA-like	VLTIAFQFPF	DSS---LQDN	VAVMARQYVR	SVISSVQRVA	MAISPSGINP
Gly_maxREVOLUTA-likeb	VLTIAFQFPF	DSS---LQDN	VAVMARQYVR	SVISSVQRVA	MAISPSGISP
Pru_perREV_IFL1	VLTIAFQFPF	ENS---LQEN	VATMARQYVR	SVISSVQRVA	MAISPSGLSP
Ory_satHOX33	VLTIAFQFSY	ENH---LRES	VAAMARSYVR	AVMASVQRVA	VAIAPSRLGP
Sol_tubATHB-14-like	VLTIAFQFTF	ENH---YQDN	VAAMARQYVR	SIVGSVQRVA	MAIAPSRLSS
The_cacXP_007022872.1	VLTIAFQFTF	ENH---LRDN	VAAMARQYVR	SVVGSVQRVA	MAIAPSRLSS
Ory_satHOX33-like	VLTIAFQFSY	ENH---LRDS	VAAMARNYVR	AVMASVQRVA	VAIAPSRLGP
Sol_lycREVOLUTA-like	VLTIAFQFPF	EDN---LQDN	VATMARQYVR	SVVSSVQRVA	MAISPTGMNP
Sol_lycHOX32-like	VLTISFQFTF	ESH---YQDN	VAAMARQYVR	SIVGSVQRVA	MAIAPSRLSS
Gly_maxATHB-14-likeb	VLTIAFQFTF	ENH---LRDN	VAVMARQYVR	NVVRSSVQRVA	MAIAPSRLIST
Pop_triXP_006378973.1	VLTIAFQFPF	ESN---LQDN	VATMARQYVR	SVISSVQRVA	TAISPSGLNP
Ory_satAC ^A 64837.1	VLTIAFQFSY	ENH---LRES	VAAMARSYVR	AVMASVQRVA	VAIAPSRLGP
Vit_vin013992	VLTIAFQFPF	ESN---LQDN	VATMARQYVR	SVISSVQRVA	MAISPSGLGP
Ory_satOsJ_11861	VLTIAFQFSY	ENH---LRES	VAAMARQYVR	TVVASVQRVA	MAIAPSRLGG
Sol_tubREVOLUTA-like	VLTIAFQFPF	EDN---LQDN	VATMARQYVR	SVVSSVQRVA	MAISPTGMNP
Gly_maxATHB-14-likec	VLTIAFQFTF	ENH---LRDN	VAVMARQYVR	NVVRSSVQRVA	MAIAPSRLST
The_cacXP_007024277.1	VMTIAFEFAF	ESH---MQEH	VASMARQYVR	SIISSVQRVA	LALSPSHLSS
Vit_vinATHB-15-like	VMTIAFEFAF	ESH---LQEN	VASMARQYVR	SIISSVQRVA	LALSPSHLSS
Ric_comXP_002515977.1	VMTIAFEFAF	ESH---MOEH	VASMARQYVR	SIISSVQRVA	LALSPSHSGS
The_cacXP_007016751.1	VLTIALQFPF	DSN---LQDN	VAAMARQYVR	SVIASVQRVA	MAISPSGLSP
Sol_tubHOX32-like	VLTISFQFTF	ESH---YQDN	VAAMARQYVR	SIVGSVQRVA	MAIAPSRLSS
Sol_lycATHB-14-like	VLTIAFQFAF	ENH---YREN	VAAMARQYVR	SIVGSVQRVA	MAIAPSRLCS
Sol_tubATHB-14-like_X1	VLTIAFQFAF	ENH---YREN	VAAMARQYVR	SIVGSVQRVA	MAIAPSRLCS
Med_truATHB-14	VLTIAFQFTF	ENH---LRDN	VASMARQYVR	SVVASVQRVA	MAIAPSRLPGT
Zea_mayNP_001142394.1	VLTIAFQFSF	ENH---LRES	VAAMAQYVR	GVMASVQRVA	MAIAPSRLIGS
Vit_vinREVOLUTA	VLTIAFQFPF	ESN---LQDN	VATMARQYVR	SVISSVQRVA	MAISPSGLGP
Ory_braHOX32-like	VLTIAFQFSY	ENH---LRES	VAAMARQYVR	TVVASVQRVA	MAIAPSRLGG
Ric_comXP_002529946.1	VLTIAFQFPF	ESN---LQEN	VATMARQYVR	SVISSVQRVA	MAISPSGLGP
Tha_cacXP_007016749.1	VLTIALQFPF	DSN---LQDN	VAAMARQYVR	SVIASVQRVA	MAISPSGLSP
Fra_vesREVOLUTA-like	VLTIAFQFPF	ESS---LQDN	VASMARQYVR	NVISSVQRVA	MAISPSGLSP
Zea_mayNP_001146215.1	VLTIAFQFSF	ENH---LRES	VAAMARQYVR	AVMAIVQRVA	MAISPSRLGP
The_cacXP_007012152.1	VMTIAFQFVY	EIH---LQEN	VATMARQYVR	SIIASVQRVA	LALSPSRFGS
Pru_perppa001386mg	VMTIAFQFAF	EIH---LQDN	VASMARQYVR	SIIASVQRVA	LALSPSRFGS
Pop_triAAAX19057.1	VMTIAFQFAF	EMH---LQEN	VASMARQYVR	SIIASVQRVA	LALSPSHFGS
Pop_triXP_002309538.2	VMTIAFQFAF	EMH---LQEN	VTSMARQYVR	SIIASVQRVA	LALSPSHFGS
Fra_vesATHB-8-like	VMTIAFQFAF	EIH---LQDN	VASMARQYIR	SIIASVQRVA	LALSPSHFGS
Pop_triXP_002324794.1	VMTIAFQFAF	EMH---LQEN	VASMARQYVR	SIIASVQRVA	LALSPSHFGS
Vit_vin009744	VMTISFQFAF	EMH---LQEN	VASMARQYVR	SIISSVQRVA	LALSPSPRGPS
Gly_maxATHB-8-like	VMTIAFQFAF	EVH---LQEN	IATMARQYVR	SIIASVQRVS	LALSPSPRGPS
Sol_lycATHB-15-like	VMTIAFQFAF	EIH---LQES	IAAMARQYVR	SIISSVQRVA	LALSPSPRIIGS
Gly_maxATHB-8-likeb	VMTIAFQFAF	EVH---LQEN	IATMARQYVR	SIIASVQRVS	LALSPSPRGPS
Med_truXP_003603630.1	VMTIAFQFAF	EAH---LQDN	IAAMARQYVR	SIVASVQRVS	LALSPSPRGPS



	901	ALQDISLDKI	LD-EGGRKSL	CSDFTKIMQQ	- - - GYTLYLPA	GICVSSMGRP
AmTr_v1.0_scaffold00148.15		ALQDISLDKI	FD-ENGRKTL	CADFAQIMQQ	- - - GFAYLPG	GLCVSSMGRP
AmTr_v1.0_scaffold00056.60		ALQDITLEKI	LD-ENGRKVL	YSEFPKIMQQ	- - - GFAYLPA	GICVSSMGRP
AmTr_v1.0_scaffold00155.45		ALQDITLEDKI	LD-EPGRKAL	CSEFPKIMQQ	- - - GYAHLPA	GVCASSMGRM
Ara_thaPHABULOSA		ALQDIMLDKT	LD-DNGRKTL	CSEFPQIMQQ	- - - GFACLOG	GICLSSMGRP
Ara_thaATHB15		ALQDISLEKI	FD-DNGRKTL	CSEFPKIMQQ	- - - GYANLPA	GICVSSMGRP
Ara_thaPHAVOLUTA		ALQDIMLDKT	LD-DGRRRAL	CSEFSKIMQQ	- - - GFAYLPA	GICVSSMGRP
Ara_thaATHB8		ALQDITLEDKI	FD-DNNNGKKTL	SSEFPQIMQQ	- - - GFMCMDG	GICMSSMGR
Ara_thaREVOLUTA		ALQDITLEKI	FD-ESGRKAI	CSEFAKLMQQ	- - - GFACLPS	GICVSTMGRH
Vit_vinHOX32-like		ALQDIMLDKI	LD-EAGRKIL	CSEFSKIMQQ	- - - GFAYLPA	GICTSSMGRP
The_cacXP_007022870.1		ALQDIMLDKI	LD-EAGRKIL	CSEFSKIMQQ	- - - GFAYLPA	GICVSSMGRP
Ory_satHOX32		ALQDISLEKI	LD-DDGRKAL	CTEFPKIMQQ	- - - GFAYLPG	GVCVSSMGRP
Pru_perppa001343mg		ALQDIMLDKI	LD-EAGRKIL	CSEFSKIMQQ	- - - GFAYLPA	GLCASSMGRP
Bra_disHOX32-like		ALQDISLEKI	LD-DDGRKAL	CSEFPKIMQQ	- - - GFAYLPG	GVCVSSMGRP
Pop_triPHABULOSA		ALQDIMLDKI	LD-EAGRKIL	CSEFSKITQQ	- - - GFAYLPA	GICVSSMGR
Pop_triPHABULOSAb		ALQDIMLDKI	LD-EAGRKIL	CSEFSKIMQQ	- - - GYAYLPA	GICVSSMGRP
Fra_vesHOX32-like		ALQDIMLDKI	LD-EAGRKVL	CSEFSKIMLQ	- - - GFAFLPA	GMCASSMGRP
Gly_maxATHB-14-like		ALQDIMLDKV	LD-ESSRKIL	CCEFSKIMQQ	- - - GFAYLPA	GICASSMNR
Gly_maxREVOLUTA-like		ALQDITLEKI	FD-EAGRKAL	CTDFAKLMEQ	- - - GFAYLPA	GICMSTMGRH
Gly_maxATHB-14-likeb		ALQDITLEKI	FD-EAGRKAL	CTDFAKLMEQ	- - - GFAYLPA	GICMSTMGRH
Pru_perREV_IFL1		ALQDITLEDKI	FD-ECGRKTL	CADFAKLMNQ	- - - GFAHLPA	GICMSTMGRH
Ory_satHOX33		NLQDISLEMI	LD-DEGRKAL	CSEFPKIMQQ	- - - GFTYLPG	GVCKSSMGRQ
Sol_tubATHB-14-like		ALQDIMLDKI	LD-EAGRKVL	LSEFSKIMQQ	- - - GFAYLPA	GICVSSMGRP
The_cacXP_007022872.1		ALQDIMLDKI	LD-EAGRKIL	CSEFSKIMQQ	- - - VKFVS	GLCSSD-----
Ory_satHOX33-like		NLQDISLEMI	LD-DEGRKAL	CSEFPKIMQQ	- - - GFTYLPG	GVCKSSMGRQ
Sol_lycREVOLUTA-like		ALQDISLDKI	FD-ESGRKVL	LSEFAKIMEQ	- - - GFACLPG	GICMSTMGRH
Sol_lycHOX32-like		ALQDIMLDKI	LD-EAGRKVL	LSEFSKIMQQ	- - - GFAYLPA	GICVSSMGRP
Gly_maxATHB-14-likeb		ALQDIMLDKV	LD-EAGRKFL	CIEFSKIMQQ	- - - GFAYLPA	GICVSSMNR
Pop_triXP_006378973.1		ALQDITLEKI	FD-ESGRKAL	FTDFAKLMEQ	ANN	GFACLPA
Ory_satACA64837.1		NLQDISLEMI	LD-DEGRKAL	CSEFPKIMQQ	- - - GFTYLPG	GVCKSSMGRQ
Vit_vin013992		ALQDISLDKI	FD-ESGRKGL	CADFAKIMQQ	- - - GFAYLPA	GICMSTMGRH
Ory_satOsJ_11861		ALQDISLEKI	LD-DDGRKAL	CTEFPKIMQQ	- - - GFAYLPG	GVCVSSMGRP
Sol_tubREVOLUTA-like		ALQDISLDKI	FD-EPGREVL	LSEFAKIMEQ	- - - GFACLPG	GICMSTMGRH
Gly_maxATHB-14-likec		ALQDIMLDKV	LD-EAGRKVL	CIEFSKIMQQ	- - - GFAYLPA	GICVSSMNR
The_cacXP_007024277.1		ALQDITLEKI	FD-DHGRKTL	CTEFPQIMQQ	- - - GFACLOG	GICLSSMGRP
Vit_vinATHB-15-like		ALQDITLEKI	FD-DHGRKTL	CSEFPQIMQQ	- - - GFACLOG	GICLSSMGRP
Ric_comXP_002515977.1		ALQDITLEKI	FD-DHGRKTL	CSEFPQIMQQ	- - - GFACLOG	GICLSSMGRP
The_cacXP_007016751.1		ALQDITLEKI	FD-ESGRKAL	CSDFAKLMQQ	- - - GFACLOG	GICLSSMGRP
Sol_tubHOX32-like		ALQDIMLDKI	LD-EAGRKVL	LSEFSKIMQQ	- - - GFAYLPA	GICVSSMGRP
Sol_lycATHB-14-like		ALQDIMLDKI	LD-EAGRKVL	LSEFPKIMQQ	- - - GFAYLPA	GLCVSSMGRP
Sol_tubATHB-14-like_X1		ALQDIMLDKI	LD-EAGRKVL	LSEFPKIMQQ	- - - GFAYLPA	GLCVSSMGRP
Med_truATHB-14		ALQDIMLDKV	LD-EAGRKIL	CSEFSKIMQQ	- - - GYASLPG	GICVSSMNR
Zea_mayNP_001142394.1		NIQDLPLEAV	LD-EEGQKAL	SAQLPAIMQQ	- - - GLAYLPG	GVCRSSMGRQ
Vit_vinREVOLUTA		ALQDISLDKI	FD-ESGRKGL	CADFAKIMQQ	- - - GFAYLPA	GICMSTMGRH
Ory_braHOX32-like		ALQDISLEKI	LD-DDGRKAL	CSEFPKIMQQ	- - - GLAYLPG	GVCVSSMGRP
Ric_comXP_002529946.1		ALQDITLEKI	FD-ESGRKAL	CADFAKLMQQ	- - - GFAGLPG	GICMSTMGRH
Tha_cacXP_007016749.1		ALQDITLEKI	FD-ESGRKAL	CSDFAKLMQQ	- - - GFAYLPA	GICMSTMGRH
Fra_vesREVOLUTA-like		ALQDISLDKI	FD-ESGRKTL	CTDFAKLMQQ	- - - GFAYLPA	GICMSTMGRH
Zea_mayNP_001146215.1		NVQDLQLEAV	LD-DGGQKAL	VAOLPKIMLQ	- - - GLAYLPG	GVCRSSMGRQ
The_cacXP_007012152.1		ALQDISLEKI	FD-ENGRKAL	FAEFPOVMQQ	- - - GFMCLOG	GICLSSMGRP
Pru_perppa001386mg		ALQDITLEKI	FD-DNGRKTL	FSEFPQIMQQ	- - - GFMCLOG	GICMSSMGRP
Pop_triaAX19057.1		ALQDITLEKI	FD-DNGRKTL	YSEFPQIMQQ	- - - GFMCLOG	GICLSSMGRP
Pop_triXP_002309538.2		ALQDITLEKI	FD-DNGRKTL	YSEFPQIMQQ	- - - GFMCLOG	GICLSSMGRP
Fra_vesATHB-8-like		ALQDITLEKI	FD-DNGRKIL	FTEFPOIMQQ	- - - GFMCLOG	GICMSSMGRP
Pop_triXP_002324794.1		ALQDITLEKI	FD-DNGRKTL	CSEFPQIMQQ	- - - GFMCLOG	GICLSSMGRP
Vit_vin009744		ALQDITLEKT	FD-DNGRKTL	CSEFPQIMQQ	- - - GFVCLQG	GVCLSSMGRP
Gly_maxATHB-8-like		ALQDITLEKI	FD-DNGKKTL	CTEFPQIMQQ	- - - GFMCIOQ	GICLSSMGRP
Sol_lycATHB-15-like		ALQDISLEKI	FD-DNGRKAL	YSELPOIMQQ	- - - GFACLOG	GICLSSMGRP
Gly_maxATHB-8-likeb		ALQDITLEKI	FD-DNGKKTL	CTEFPQIMQQ	- - - GFMCIOQ	GICLSSMGRP
Med_truXP_003603630.1		ALQDITLEKI	FD-DNGKKTL	CSEFPQIMQQ	- - - GFMCIOQ	GICLSSMGRP

951

AmTr_v1.0_scaffold00148.15	VSYDQAIAWK	VL--TEEEAT	--HCLAFMFI	NWSFV
AmTr_v1.0_scaffold00056.60	VSYERAVAWK	VL--NEEEST	--HClCFMFM	NWSFV
AmTr_v1.0_scaffold00155.45	VSYEQAVAWK	VL--NEDDCT	--HCLAFMFL	NWSFV
Ara_thaPHABULOSA	VSYEQATVWK	VL--EDDESN	--HCLAFMFV	NWSFV
Ara_thaATHB15	VSYERAVAWK	VL--NEEEA	--HClCFVFI	NWSFV
Ara_thaPHAVOLUTA	VSYEQATVWK	VV--DDNESN	--HCLAFTLV	SWSFV
Ara_thaATHB8	VTYEKAVGWK	VL--NDDEDP	--HClCFMFL	NWSFV
Ara_thaREVOLUTA	VSYEQAVAWK	VFAASEENNN	NLHCLAFSFV	NWSFV
Vit_vinHOX32-like	VSYEQAIAWK	VL--NDEDSDN	--HCLAFMFI	NWSFV
The_cacXP_007022870.1	VSYEQAIAWK	VL--NDNDAN	--HCLTFMFV	NWSFV
Ory_sathHOX32	VSYEQAVAWK	VL--SDDDTTP	--HCLAFMFV	NWSFV
Pru_perppa001343mg	VSYDQAVAWK	VV--NDDDSN	--HCLAFMFM	SWSFV
Bra_disHOX32-like	VSYEQAVAWK	VL--SEDDITP	--HCLAFMFV	NWSFV
Pop_triPHABULOSA	VSYEQAVAWK	VL--NDDDSN	--HCLAFMFM	NWSFV
Pop_triPHABULOSAb	VSYEQAIAWK	VL--NDDNSN	--HCLAFMFI	NWSFV
Fra_vesHOX32-like	VSYEQAVAWK	VV--NDEDSDN	--HCLALMFT	NWSFV
Gly_maxATHB-14-like	VSYEQAVAWK	VL--NDDDSN	--HCLAFMFM	NWSFV
Gly_maxREVOLUTA-like	VSYDQAIAWK	VLT-GEDNTV	--HCLAFSF1	NWSFV
Gly_maxREVOLUTA-likeb	VSYDQAVAWK	VLT-GEDNTV	--HCLAFSF1	NWSFV
Pru_perREV_IFL1	VSYEQAVAWK	VLA-AEENSV	--HCLAFSF1	NWSFV
Ory_sathHOX33	ASYEQAVAWK	VL-SDDDAAP	--HCLAFMLV	NWTFM
Sol_tubATHB-14-like	ISYEQAIAWK	VL-NDDDSN	--HCLAFMFI	NWSFV
The_cacXP_007022872.1			--IEFFPS	N-----
Ory_sathHOX33-like	ASYEQAVAWK	VL-SDDDAAP	--HCLAFMLV	NWTFM
Sol_lycREVOLUTA-like	ISYEQAIAWK	VFAASSEENAV	--HCLAFSF1	NWSFV
Sol_lycHOX32-like	ISYEQAIAWK	VL-NDDDSN	--HCLAFMFI	NWSFV
Gly_maxATHB-14-likeb	VSYEQAIAWK	VL-PDDDSN	--HCLAFVFM	NWSFV
Pop_triXP_006378973.1	VSYEQAVSWK	VLA-AEENTV	--HCIAFSFV	NWSFL
Ory_satACA64837.1	ASYEQAVAWK	VL-SDDDAAP	--HCLAFMLV	NWTFM
Vit_vin013992	VSYEQAIAWK	VLA-AEENTV	--HCLAFSF1	NWSFV
Ory_satOsJ_11861	VSYEQAVAWK	VL-SDDDTIP	--HCLAFMFV	NWSFV
Sol_tubREVOLUTA-like	ISYEQAIAWK	VFAASSEENAV	--HCLAFSF1	NWSFV
Gly_maxATHB-14-likec	VSYEQAIAWK	VL-PDDDSN	--HCLAFVFM	NWSFV
The_cacXP_007024277.1	VSYERAVAWK	VL--NEEEA	--HClCFMFI	NWSFV
Vit_vinATHB-15-like	VSYERAVAWK	VL--NEEEA	--HCVCFMFM	NWSFV
Ric_comXP_002515977.1	VSYERAVAWK	VL--NEEEA	--HClCFMFI	NWSFV
The_cacXP_007016751.1		--VSP	--N-----	
Sol_tubHOX32-like	ISYEQAIAWK	VL-NDDDSN	--HCLAFMFI	NWSFV
Sol_lycATHB-14-like	VSYEQAVAWK	VL-NDDDSN	--HCLAFMFT	NWSFI
Sol_tubATHB-14-like_X1	VSYEQAVAWK	VL-NDDDSN	--HCLAFMFT	NWSFI
Med_truATHB-14	VSYEQAIAWK	VL-NDDDSN	--HCLAFMFI	NWSFV
Zea_mayNP_001142394.1	ASYEQAVAWK	VV-GDDGAP	--QCLALMLA	NWTFI
Vit_vinREVOLUTA	VSYEQAIAWK	VLA-AEENTV	--HCLAFSF1	NWSFV
Ory_braHOX32-like	VSYEQAVAWK	VL-SDDDTIP	--HCLAFMFV	NWSFV
Ric_comXP_002529946.1	VSYEQAVAWK	VLA-ADESTV	--HCLAFSF1	NWSFV
Tha_cacXP_007016749.1	VSYEQAVAWK	VLA-ADESTV	--HCLAFSF1	NWSFV
Fra_vesREVOLUTA-like	VSYEQAIIGWK	VLS-GEDNSV	--HCLAFSF1	NWSFV
Zea_mayNP_001146215.1	ASYEQAVAWK	VV-GDDGAP	--QCLALMFV	NWTFI
The_cacXP_007012152.1	VSYERAVAWK	VV-NDEENA	--HClCFMFI	NWSFV
Pru_perppa001386mg	ISYEQAVAWK	VL-NEEETA	--HClCFMFI	NWSFV
Pop_triAAX19057.1	VSYERAVAWK	VL-NEEESA	--HClCFMFI	NWSFV
Pop_triXP_002309538.2	VSYERAVAWK	VL-NEEESA	--HClCFMFI	NWSFV
Fra_vesATHB-8-like	ISYEQAVAWK	VL-NEEETA	--HClCFMFI	NWSFV
Pop_triXP_002324794.1	VSYERAVAWK	VL-NEEESA	--HClCFMFM	NWSFV
Vit_vin009744	VSYERAVAWK	VL-TEEDNA	--HClCFMFI	NWSFV
Gly_maxATHB-8-like	VSYERAVAWK	VL-NEEESA	--HClCFMFI	NWSFV
Sol_lycATHB-15-like	ISYEQAVAWK	VL-NEEEDA	--HClCFMFI	NWSFV
Gly_maxATHB-8-likeb	VSYERAVAWK	VL-NEEESA	--HClCFMFI	NWSFV
Med_truXP_003603630.1	ITYEQAVAWK	VL-NEEEA	--HClCFMFI	NWSFV