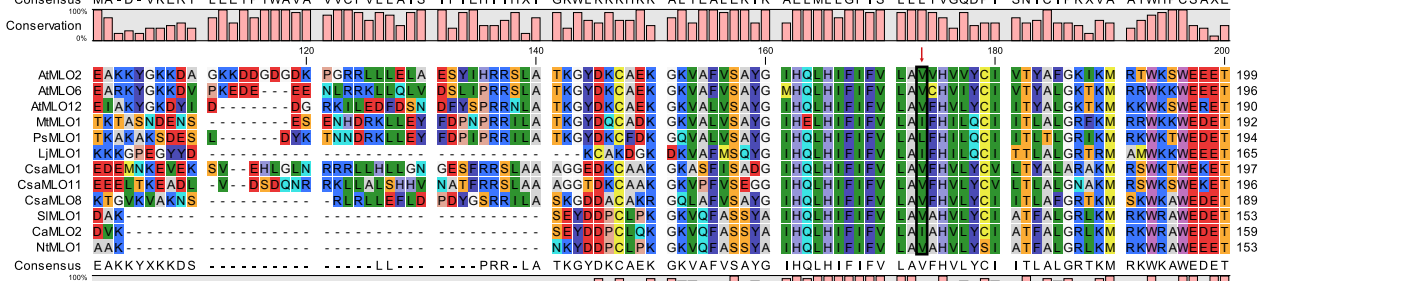


AMLO2 MA-DQVKERT EETSTWAVA VVCFVLLAIS VVEHSHHK GTWEKKKHKQ ALFEALEKVK AELMLGFISS LLTIGOTPI SNICISQKIA STMHPCSAAE 99
AMLO6 MA-DQVKERT EETSTWAVA VVCFVLLAIS VVEHSHHK GSGKKNKXK ALFEALEKVK AELMLGFISS LLTIGOTPI SNICIPKXIA ASMHPCSASE 97
AMLO12 MA-LKERS EETPTWAVA VVCFVLLAIS MVEYFHE GHWFKKKHK ALSEALEKVK AELMLGFISS LLTIGOTPI SNICIPKXIA ATWHPCSNHO 97
MMLO1 MAEDKYYERT EETPTWAVA VVCFVLLAIS VVEHSHHA GKWFKKKNK ALFEALEKVK GEMLMGFISS LLTIGOTPI SKICISQKIG STWHPCSTPK 100
PsML01 MAEGGKERT EETPTWAVA VVCFVLLAIS VVEHSHHA GKWFKKKNK ALFEALEKVK GEMLMGFISS LLTIGOTPI SKICISQKIG STWHPCSTPN 100
LjML01 M-DKLAQK EETPTWAVA VVCFVLLAIS VVEHSHHA KWFKKRHK ALFEALEKVK GEMLMGFISS LLTIGOTPI SNICISQKIA STWHPCHPE 98
CsaML01 MA-GAAGKS EETPTWAVA VVCFVLLAIS VVEHSHHA GHWFKKKHK ALFEALEKVK SEMLMGFISS LLTIGOTPI TEICIPQXIA ATWHPCKTER 99
CsaML011 MA-GGAGRS EETPTWAVA VVCFVLLAIS VVEHSHHA GKWFKKRHK ALFEALEKVK SEMLMGFISS LLTIGOS TNCIPQXIA ATWHPCSPR 99
CsaML08 MAEGGTEQRT EETPTWAVA VVCFVLLAIS VVEHSHHA GKWFKKRHK ALFEALEKVK AELMLGFISS LLTIGOTPI TNCISQKIA ATWHPCAARA 100
SIMLO1 M-----EATPTWAVA VVCFVLLAIS VVEHSHHA GEWLKRRKK SLYEALEKVK AELMLGFISS LLTIGOTPI SNICIPKXIG YSWHPCKMKE 90
CaML02 MA-LKERS EATPTWAVA VVCFVLLAIS VVEHSHHA GEWLKRRKK SLYEALEKVK AELMLGFISS LLTIGOTPI SNICIPKXIG YSWHPCKMKE 96
NMLO1 M-----EATPTWAVA VVCFVLLAIS VVEHSHHA GEWLKRRKK SLYEALEKVK AELMLGFISS LLTIGOTPI SNICIPKXIG YSWHPCKMKE 90
Consensus MA-D-VKERT LEETPTWAVA VVCFVLLAIS VVEHSHHK GTWELKRRKK SLYEALEKVK AELMLGFISS LLTIGOTPI SNICIPKXIA ATWHPCSAXE



AMLO2 EAKKYGKKA GKDDGQDK PCRRLLLEIA ESYHRRSLA TKGYDCAEK GKVAFVSAYG IHQLHIFIV LAVFHVLYCI VTYAGLTKM RTWKSWEET 199
AMLO6 EAKKYGKKA GKDEDEE NRRLLQLV DSLEPRSSIA AGGTDCAAK GKAFVVSAYG MHQLHIFIV LAACHVYCI VTYAGLTKM RRWKWEET 196
AMLO12 EAKKYGKKA GKDEDEE NRRLLQLV DSLEPRSSIA AGGTDCAAK GKAFVVSAYG MHQLHIFIV LAACHVYCI VTYAGLTKM RRWKWEET 190
MMLO1 TKTASNDKST -----ESNHDRKLEFY FDPNPRRLA TKGYDCAEK GKAFVVSAYG IHQLHIFIV LAACHVYCI VTYAGLTKM RRWKWEET 192
PsML01 TKAAGKSDS -----DYK TNDRRLLEIA FDPNPRRLA TKGYDCAEK GKAFVVSAYG IHQLHIFIV LAACHVYCI VTYAGLTKM RRWKWEET 194
LjML01 KKKGPEGYD -----KCAKDK GKAFVVSAYG MHQLHIFIV LAACHVYCI VTYAGLTKM RRWKWEET 165
CsaML01 EDEMNEKESV SV-EHGNR RRRLLHLLGN GESFRRSLAA AGGTDCAAK GKAFVVSAYG IHQLHIFIV LAACHVYCI VTYAGLTKM RRWKWEET 197
CsaML011 EDETKEABE V-DSGNR RKLALSHHV NATERRSLAA AGGTDCAAK GKAFVVSAYG MHQLHIFIV LAACHVYCI VTYAGLTKM RRWKWEET 196
CsaML08 KTGKMAKNS -----RRLREED PDVGSRRLLA SKGDDCAAK GKAFVVSAYG IHQLHIFIV LAACHVYCI VTYAGLTKM RRWKWEET 189
SIMLO1 EAK----- -----RRLREED PDVGSRRLLA SKGDDCAAK GKAFVVSAYG IHQLHIFIV LAACHVYCI VTYAGLTKM RRWKWEET 153
CaML02 EAK----- -----RRLREED PDVGSRRLLA SKGDDCAAK GKAFVVSAYG IHQLHIFIV LAACHVYCI VTYAGLTKM RRWKWEET 159
NMLO1 EAK----- -----RRLREED PDVGSRRLLA SKGDDCAAK GKAFVVSAYG IHQLHIFIV LAACHVYCI VTYAGLTKM RRWKWEET 153
Consensus EAKKYXKKS -----LL-----PRR-LA TKGYDCAEK GKVAFVSAYG IHQLHIFIV LAVFHVLYCI ITLALGRKM RKWKAWEET



AMLO2 KTI EYQYND PERFRFARDT SFGRRHLSFW SKSPILLWIV CFRQFFGSV TKVDYDLTRH GFIMAHAPG SDAXFDQKY IXRSLEXDFK VVVGISPAIWI 299
AMLO6 KTI EYQYND PERFRFARDT SFGRRHLSFW SKSTITLWIT CFRQFFGSV TKVDYDLTRH GFIMAHAPG SARFDQKY IRSLEEDK TVEIPAVPW 296
AMLO12 KTI EYQYND PERFRFARDT SFGRRHLSFW SKSTITLWIT CFRQFFGSV TKVDYDLTRH GFIMAHAPG SARFDQKY IRSLEEDK TVEIPAVPW 290
MMLO1 RTVEYQYND PERFRFARDT SFGRRHLSFW TKSPISLWIT CFRQFFGSV TKVDYDLTRH GFIMAHAPG NAEFDQKY IRSLEEDK TVEIPAVPW 292
PsML01 KTI EYQYND PERFRFARDT SFGRRHLSFW AQSPILLWIV SFRQFFGSV SRVDYDLTRH GFIMAHAPG HAQFDQKY IRSLEEDK TVEIPAVPW 294
LjML01 KTI EYQYND PERFRFARDT SFGRRHLSFW SQSPISLWIT SFRQFFGSV SRVDYDLTRH GFIMAHAPG SESKFDQKY IRSLEEDK TVEIPAVPW 265
CsaML01 KTA EYQYND PERFRFARDT SFGRRHLSFW TKNPAIWI CFRQFFGSV PKVDYDLTRH GFIMAHAPG SHQFDQKY IRSLEEDK TVEIPAVPW 297
CsaML011 KTA EYQYND PERFRFARDT SFGRRHLSFW TKNPAIWI CFRQFFGSV PKVDYDLTRH GFIMAHAPG SHQFDQKY IRSLEEDK TVEIPAVPW 296
CsaML08 KTI EYQYND PARFRFARDT SFGRRHLSFW SRTPLSWIT CFRQFFGSV AKVDYDLTRH GFIMAHAPG SEWKFQKY IRSLEEDK TVEIPAVPW 289
SIMLO1 KTI EYQYND PERFRFARDT SFGRRHLSFW SKSPISLWIT CFRQFFGSV AKVDYDLTRH GFIMAHAPG NONNDFQKY NRAVDKDK VVGISPAIWI 253
CaML02 KTI EYQYND PERFRFARDT SFGRRHLSFW SKSPISLWIT CFRQFFGSV AKVDYDLTRH GFIMAHAPG NOENDFQKY NRAVDKDK VVGISPAIWI 259
NMLO1 KTI EYQYND PERFRFARDT SFGRRHLSFW SKSPISLWIT CFRQFFGSV AKVDYDLTRH GFIMAHAPG NOENDFQKY NRAVDKDK VVGISPAIWI 253
Consensus KTI EYQYND PERFRFARDT SFGRRHLSFW SKSPILLWIV CFRQFFGSV TKVDYDLTRH GFIMAHAPG SDAXFDQKY IXRSLEXDFK VVVGISPAIWI



AMLO2 FVAVLFLLTN SYGLRSYLW PEIPLVILV VGTKLVIT KLGRIOERG DVVKGAPVVG PGDDLFWFR PRFLFLHL VLFQNAFOLA FFAWSTYE-- 397
AMLO6 FVAVLFLLTN TNGNSYLW PEIPLVILV VGTKLVIT KLGRIOERG DVVKGAPVVG PGDDLFWFR PRFLFLHL VLFQNAFOLA FFAWSTYE-- 394
AMLO12 FVAVLFLLTN THGWSSYLW PEIPLVILV VGTKLVIT KLGRIOERG DVVKGAPVVG PGDDLFWFR PRFLFLHL VLFQNAFOLA FFAWSTYE-- 388
MMLO1 FVAVLFLLTN THGWSSYLW PEIPLVILV VGTKLVIT KLGRIOERG DVVKGAPVVG PGDDLFWFR PRFLFLHL VLFQNAFOLA FFAWSTYE-- 390
PsML01 FVAVLFLLTN THGWSSYLW PEIPLVILV VGTKLVIT KLGRIOERG DVVKGAPVVG PGDDLFWFR PRFLFLHL VLFQNAFOLA FFAWSTYE-- 392
LjML01 FVAVLFLLTN THGWSSYLW PEIPLVILV VGTKLVIT NMGKIOERG DVVKGAPVVG PGDDLFWFR PRFLFLHL VLFQNAFOLA FFAWSTYE-- 365
CsaML01 FVAVLFLLTN THGWSSYLW PEIPLVILV VGTKLVIT KMLAIOERG DVVKGAPVVG PGDDLFWFR PRFLFLHL VLFQNAFOLA FFAWSTYE-- 395
CsaML011 FVAVLFLLTN THGWSSYLW PEIPLVILV VGTKLVIT KMLAIOERG DVVKGAPVVG PGDDLFWFR PRFLFLHL VLFQNAFOLA FFAWSTYE-- 394
CsaML08 FVAVLFLLTN THGWSSYLW PEIPLVILV VGTKLVIT HMGTIOERG DVVKGAPVVG PGDDLFWFR PRFLFLHL VLFQNAFOLA FFAWSTYE-- 387
SIMLO1 FVAVLFLLTN THGWSSYLW PEIPLVILV VGTKLVIT EMGVSIOERG DVVKGAPVVG PGDDLFWFR PRFLFLHL VLFQNAFOLA FFAWSTYE-- 351
CaML02 FVAVLFLLTN THGWSSYLW PEIPLVILV VGTKLVIT EMGVSIOERG DVVKGAPVVG PGDDLFWFR PRFLFLHL VLFQNAFOLA FFAWSTYE-- 357
NMLO1 FVAVLFLLTN THGWSSYLW PEIPLVILV VGTKLVIT EMGVSIOERG DVVKGAPVVG PGDDLFWFR PRFLFLHL VLFQNAFOLA FFAWSTYE-- 351
Consensus FVAVLFLLTN THGWSSYLW PEIPLVILV VGTKLVIT KMLAIOERG DVVKGAPVVG PGDXLFWFR PRLILFLHX VLFQNAFOLA FFAWSTYE--



AMLO2 FGLNCFHEX TADVIRLTM GVLIQVLCYS VTLPLVALVT QMGSTMKPTI FNDRVATALK SWHHTAKKXV KHGRHSXS-- TTPFSSRPAT PTHGMSPVHL 495
AMLO6 FGLNCFHEX RVDVIRLTM GVLIQVLCYS VTLPLVALVT QMGSTMKPTI FNDRVATALK SWHHTAKKXV KHGRHSXS-- TTPFSSRPAT PTHGMSPVHL 492
AMLO12 FGLNCFHEX TADVIRLTM GVLIQVLCYS VTLPLVALVT QMGSTMKPTI FNDRVATALK SWHHTAKKXV KHGRHSXS-- TTPFSSRPAT PTHGMSPVHL 485
MMLO1 FGLNCFHEX TADVIRLTM GVLIQVLCYS VTLPLVALVT QMGSTMKPTI FNDRVATALK SWHHTAKKXV KHGRHSXS-- TTPFSSRPAT PTHGMSPVHL 488
PsML01 FGLNCFHEX TADVIRLTM GVLIQVLCYS VTLPLVALVT QMGSTMKPTI FNDRVATALK SWHHTAKKXV KHGRHSXS-- TTPFSSRPAT PTHGMSPVHL 490
LjML01 FGLNCFHEX TADVIRLTM GVLIQVLCYS VTLPLVALVT QMGSTMKPTI FNDRVATALK SWHHTAKKXV KHGRHSXS-- TTPFSSRPAT PTHGMSPVHL 495
CsaML01 FGLNCFHEX TADVIRLTM GVLIQVLCYS VTLPLVALVT QMGSTMKPTI FNDRVATALK SWHHTAKKXV KHGRHSXS-- TTPFSSRPAT PTHGMSPVHL 491
CsaML011 FGLNCFHEX TADVIRLTM GVLIQVLCYS VTLPLVALVT QMGSTMKPTI FNDRVATALK SWHHTAKKXV KHGRHSXS-- TTPFSSRPAT PTHGMSPVHL 490
CsaML08 FGLNCFHEX TADVIRLTM GVLIQVLCYS VTLPLVALVT QMGSTMKPTI FNDRVATALK SWHHTAKKXV KHGRHSXS-- TTPFSSRPAT PTHGMSPVHL 485
SIMLO1 FGLNCFHEX TADVIRLTM GVLIQVLCYS VTLPLVALVT QMGSTMKPTI FNDRVATALK SWHHTAKKXV KHGRHSXS-- TTPFSSRPAT PTHGMSPVHL 448
CaML02 FGLNCFHEX TADVIRLTM GVLIQVLCYS VTLPLVALVT QMGSTMKPTI FNDRVATALK SWHHTAKKXV KHGRHSXS-- TTPFSSRPAT PTHGMSPVHL 455
NMLO1 FGLNCFHEX TADVIRLTM GVLIQVLCYS VTLPLVALVT QMGSTMKPTI FNDRVATALK SWHHTAKKXV KHGRHSXS-- TTPFSSRPAT PTHGMSPVHL 449
Consensus FGLNCFHEX TADVIRLTM GVLIQVLCYS VTLPLVALVT QMGSTMKPTI FNDRVATALK SWHHTAKKXV KHGRHSXS-- TTPFSSRPAT PTHGMSPVHL

AMLO2 HNENRNSVE NYPSSSPRY SGHGHEHOF WDPESQOETA ESTHHSAH ESSE-----PVLASVEPPR TSKSLRDFSE KK----- 573
AMLO6 HNENRNSVE SVDESANSE SPR-NSDFDS WDPESQOETA ESTHHSAH GESESEKKE -----PPG PGRTOHKE STLSLRDFSE KK----- 583
AMLO12 HNENRNSVE QOTSFTASP PPR-NSDFDS WDPESQOETA ESTHHSAH GESESEKKE -----PPG PGRTOHKE STLSLRDFSE KK----- 576
MMLO1 HROTKNSD SLOTPRSTN YENQWVEG GQSGHGFND PSONHSYOR LTPSESSNS HHPODMASP REEKEHEH KVDSEKFE KK----- 574
PsML01 HRHTAGNSD SLOTPRSTN YENQWVEG GQSGHGFND PSONHSYOR LTPSESSNS HHPODMASP REEKEHEH KVDSEKFE KK----- 573
LjML01 HKHHNNSD SPSAPRES PSNYETQWY LFPNSPNSHT RGHDTLQWQ YLGSSA-----TEFPAER HE--STSGS KDFSEKRLIG SN----- 551
CsaML01 RHYKSEVDS EHTSPRRSPE DTDQWDPSP SPSPSHHNSR RHPHGGSTIS NHHRDVEAG LDVDESPQR DRTTQSNPT NLEHHELDIG SNESEFDRRY 590
CsaML011 RHYKSEVDS EHTSPRRSPE DTDQWDPSP SPSPSHHNSR RHPHGGSTIS NHHRDVEAG LDVDESPQR DRTTQSNPT NLEHHELDIG SNESEFDRRY 590
CsaML08 HKHQHGSTP RLSDAEPPR WEELEPPSSH SRAPHHDHR DQEQESETR REQEMTQGP SSESCTSLR PARPHOETR TPDSEFAK----- 575
SIMLO1 RGVPOYNEE SVQASPRSTN YENQWVEG GEILQHAS-----CE GEILQHAS-----TD-----HNKOLETMS DFTGK----- 507
CaML02 RGVPOYNEE SVQASPRSTN YENQWVEG GEILQHAS-----CE GEILQHAS-----TSMOHPHT DQHOELAMS DFTGK----- 528
NMLO1 RGVPOYNEE SVQASPRSTN YENQWVEG GEILQHAS-----CE GEILQHAS-----TSMOHPHT DQHOELAMS DFTGK----- 519
Consensus LXNYPNYXSD SVQSSPRTSN XENEGWDEG SGXPSQHNQ XXXXQHES-- VESES-----TEV-XPSR HRXQXEIXMS DXFXKXFSX

AMLO2 --- 573
AMLO6 --- 583
AMLO12 --- 576
MMLO1 --- 574
PsML01 --- 573
LjML01 --- 551
CsaML01 --- 583
CsaML011 **DRV** 594
CsaML08 --- 575
SIMLO1 --- 507
CaML02 --- 528
NMLO1 --- 519
Consensus ---
Conservation