

```

ANNO1396-RA      1 --maik-----t-----snl-----c-----llflslfllsttllsaeefdrqdyecrcrcmqltsgqmrctvsccckrfeedidwskydnqedpqtccpcprncqqeseprrqqccrcccaicccccc-ynrqr
01              1 --maik-----t-----snl-----c-----llflslfllsttllsaeefdrqdyecrcrcmqltsgqmrctvsccckrfeedidwskydnqedpqtccpcprncqqeseprrqqccrcccaicccccc-ynrqr
02              1 --mvtk-----needfipqsrpspsvlqsrpsnwkc-----rdmreareievvgiansqgdlddfecrcrcmqltsgqmrctvsccckrfeedidwskydnqedpqtccpcprncqqeseprrqqccrcccaicccccc-ynrqr
03              1 mkmain-----t-----snl-----c-----llflslfllsttllsaeefdrqdyecrcrcmqltsgqmrctvsccckrfeedidwskydnqedpqtccpcprncqqeseprrqqccrcccaicccccc-ynrqr
04              1 --mvtkneedfipqsrpspsvlqsrpsnwkc-----snr-----dgrsdmreareievvgiansqgdldvvsaeefdrqdyecrcrcmqltsgqmrctvsccckrfeedidwskydnqedpqtccpcprncqqeseprrqqccrcccaicccccc-ynrqr

ANNO1396-RA      120 dpqqqyecdeccgrgeteprhmqccqqcceryekekrkqqkryeeqqredeekyeermkeednkrdpqqreyecchrrceqqeprlqycccrccqqrqhgrrggdlmnpqrggsgryeegeekqsdnpyyfderslstrfrteeghisvlenfygrskllralknyrlvllleanpna
01              120 dpqqqyecdeccgrgeteprhmqccqqcceryekekrkqqkryeeqqredeekyeermkeednkrdpqqreyecchrrceqqeprlqycccrccqqrqhgrrggdlmnpqrggsgryeegeekqsdnpyyfderslstrfrteeghisvlenfygrskllralknyrlvllleanpna
02              143 dpqqqyecdeccgrgeteprhmqccqqcceryekekrkqqkryeeqqredeekyeermkeednkrdpqqreyecchrrceqqeprlqycccrccqqrqhgrrggdlmnpqrggsgryeegeekqsdnpyyfderslstrfrteeghisvlenfygrskllralknyrlvllleanpna
03              123 dpqqqyecdeccgrgeteprhmqccqqcceryekekrkqqkryeeqqredeekyeermkeednkrdpqqreyecchrrceqqeprlqycccrccqqrqhgrrggdlmnpqrggsgryeegeekqsdnpyyfderslstrfrteeghisvlenfygrskllralknyrlvllleanpna
04              156 dpqqqyecdeccgrgeteprhmqccqqcceryekekrkqqkryeeqqredeekyeermkeednkrdpqqreyecchrrceqqeprlqycccrccqqrqhgrrggdlmnpqrggsgryeegeekqsdnpyyfderslstrfrteeghisvlenfygrskllralknyrlvllleanpna

ANNO1396-RA      300 fvlpthldadaillviggrgalkmihhgnresynlefgdviripagttfyllnrddnerlhiakflqtistpggykeffpagggnpepylstfskeileaalntqterlrgvlqqrgdviirasqeqirelrrddsesrhwhirrggessrgpynlfnkrplysnkygqayevkpedyr
01              300 fvlpthldadaillviggrgalkmihhgnresynlefgdviripagttfyllnrddnerlhiakflqtistpggykeffpagggnpepylstfskeileaalntqterlrgvlqqrgdviirasqeqirelrrddsesrhwhirrggessrgpynlfnkrplysnkygqayevkpedyr
02              323 fvlpthldadaillviggrgalkmihrdnresynlecgdviripagttfyllnrddnerlhiakflqtistpggykeffpagggnpepylstfskeileaalntqterlrgvlqqrgdviirasqeqirelrrddsesrhwhirrggessrgpynlfnkrplysnkygqayevkpedyr
03              303 fvlpthldadaillviggrgalkmihrdnresynlecgdviripagttfyllnrddnerlhiakflqtistpggykeffpagggnpepylstfskeileaalntqterlrgvlqqrgdviirasqeqirelrrddsesrhwhirrggessrgpynlfnkrplysnkygqayevkpedyr
04              336 fvlpthldadaillviggrgalkmihhdnresynlecgdviripagttfyllnrddnerlhiakflqtistpggykeffpagggnpepylstfskeileaalntqterlrrvlqqrgdviirasqeqirelrrddsesrhwhirrggessrgpynlfnkrplysnkygqayevkpedyr

ANNO1396-RA      480 qlqdmvsvfmanitqgsmmgpffntrstkvvvvasgeadvemacphlgrhggrrgggkrheeedvhyeqvvarlskreaiivvlaghpvfvssgnenlllfafginaqnhenflagrernvlqqiepqamelafaaprkeveelfnsqdesiffpgprqhqqqsprstkqqqplvsi
01              480 qlqdmvsvfmanitqgsmmgpffntrstkvvvvasgeadvemacphlgrhggrrgggkrheeedvhyeqvvarlskreaiivvlaghpvfvssgnenlllfafginaqnhenflagrernvlqqiepqamelafaaprkeveelfnsqdesiffpgprqhqqqsprstkqqqplvsi
02              503 qlqdmvsvfmanitqgsmmgpffntrstkvvvvasgeadvemacphlgrhggrrgggkrheeedvhyeqvvarlskreaiivvlaghpvfvssgnenlllfafginaqnhenflagrernvlqqiepqamelafaaprkeveelfnsqdesiffpgprqhqqqsprstkqqqplvsi
03              483 qlqdmvsvfmanitqgsmmgpffntrstkvvvvasgeadvemacphlgrhggrrgggkrheeedvhyeqvvarlskreaiivvlaghpvfvssgnenlllfafginaqnhenflagrernvlqqiepqamelafaaprkeveelfnsqdesiffpgprqhqqqsprstkqqqplvsi
04              516 qlqdmvsvfmanitqgsmmgpffntrstkvvvvasgeadvemacphlgrhggrrgggkrheeedvhyeqvvarlskreaiivvlaghpvfvssgnenlllfafginaqnhenflagrernvlqqiepqamelafaaprkeveelfnsqdesiffpgprqhqqqsprstkqqqplvsi

ANNO1396-RA      660 ldfvgf
01              660 ldfvgf
02              683 ldfvgf
03              663 ldfvgf
04              696 ldfvgf

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Supplemental Figure S5: Multiple sequence alignment of Antimicrobial protein across the four *Macadamia* species. 01, 02, 03, 04, : represents AMP protein sequence from *M. janseni*, *M. ternifolia*, *M. integrifolia* and *M. tetraphylla*, respectively.