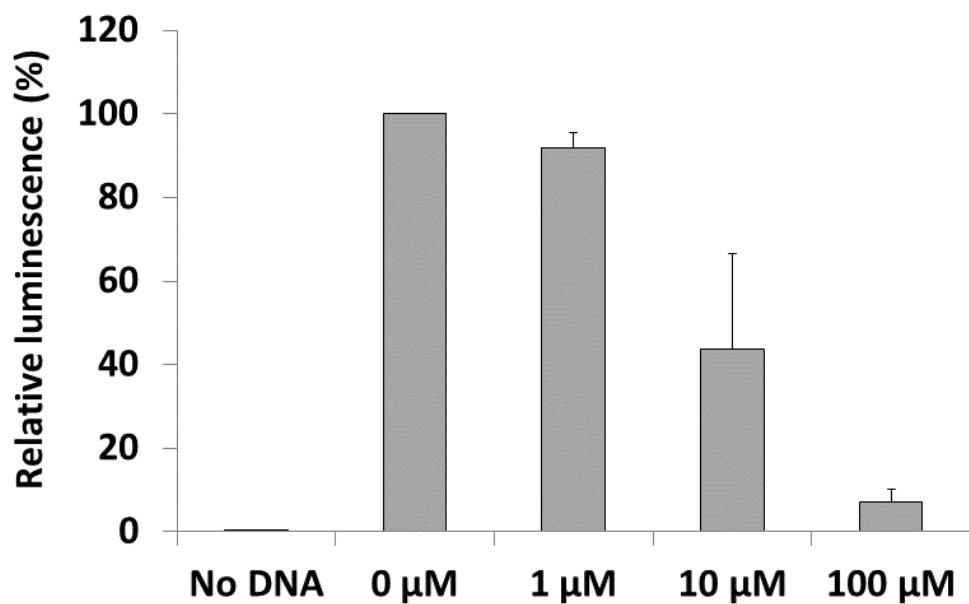


## Supplementary Materials

### In vitro TR/TR in presence of Myticalin A5 (*E. coli* system)



**Figure S1.** *in vitro* coupled transcription/translation in presence of Myticalin A5 in an *Escherichia coli* system. The positive control received water instead of the peptide. The negative control received water instead of the peptide and the DNA template encoding the luciferase. The results are the average of three independent experiments.

**Table S1:** Presence/absence patterns of myticalin genes in 20 mussel specimens collected in the Gulf of Trieste, Italy. ✓: present; ✗: absent; M: presence of multiple amplification bands.

|                 | sample number |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
|-----------------|---------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|
| Myticalin       | 1             | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| A3/A4/A5/A8/A10 | M             | M | ✓ | M | M | ✓ | ✓ | ✓ | M | M  | M  | ✓  | M  | ✓  | ✓  | ✓  | M  | M  | M  | ✓  |
| B1              | ✓             | ✓ | ✗ | ✗ | ✗ | ✓ | ✗ | ✗ | ✗ | ✗  | ✓  | ✗  | ✗  | ✓  | ✗  | ✗  | ✗  | ✗  | ✗  | ✗  |
| C2              | ✓             | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |
| C5              | ✓             | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |
| C6              | ✗             | ✓ | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗  | ✗  | ✗  | ✗  | ✗  | ✗  | ✗  | ✗  | ✗  | ✓  | ✓  |
| C8              | ✗             | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗  | ✗  | ✗  | ✗  | ✗  | ✗  | ✗  | ✗  | ✗  | ✗  | ✗  |
| D1/D2           | ✓             | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |
| D3/D4/D5        | M             | ✓ | ✓ | M | M | M | M | M | ✗ | ✗  | ✗  | ✗  | ✓  | ✗  | ✗  | M  | M  | M  | ✓  | ✓  |

**Table S2.** List of transcriptomes screened for the presence of myticalins.***Mytilus* spp.**

| Species                          | SRA datasets                                                                            |
|----------------------------------|-----------------------------------------------------------------------------------------|
| <i>Mytilus californianus</i>     | SRX565219-20                                                                            |
| <i>Mytilus chilensis</i>         | SRX1850488-9                                                                            |
| <i>Mytilus coruscus</i>          | SRR2895130-2, SRX792025, SRX791940                                                      |
| <i>Mytilus edulis</i>            | SRX565221-4, ERR1414442-3, SRR1560431                                                   |
| <i>Mytilus galloprovincialis</i> | SRX126947-50; SRX565225-30; SRX1246876-7; SRX1240182; SRX389462-6; SRX389338; SRX386628 |
| <i>Mytilus trossulus</i>         | SRX565231-2                                                                             |

**Other mytiloids**

| Species                         | SRA datasets                                               |
|---------------------------------|------------------------------------------------------------|
| <i>Bathymodiolus azoricus</i>   | DRR048281                                                  |
| <i>Bathymodiolus platifrons</i> | SRX1933530; SRX1933483; SRX610901-2; SRX436365             |
| <i>Bathymodiolus manusensis</i> | SRX2481526-32                                              |
| <i>Geukensia demissa</i>        | kindly provided by prof. PA Fields                         |
| <i>Lithophaga lithophaga</i>    | SRX1940727                                                 |
| <i>Modiolus modiolus</i>        | SRX2357782                                                 |
| <i>Modiolus kurilensis</i>      | SRX2481530-2                                               |
| <i>Modiolus philippinarum</i>   | SRX1934914-8                                               |
| <i>Mytilisepta virgata</i>      | SRX2497505; SRX2515148; SRX2515152; SRX2515284; SRX2515292 |
| <i>Perna viridis</i>            | SRX643367; SRX643380-5; SRX1873938-47                      |
| <i>Perumytilus purpuratus</i>   | SRX2210805                                                 |

**Other bivalves**

| Species                          | SRA datasets             |
|----------------------------------|--------------------------|
| <i>Anadara trapezia</i>          | SRX323049                |
| <i>Arctica islandica</i>         | SRX687761                |
| <i>Argopecten irradians</i>      | SRX470082                |
| <i>Astarte sulcata</i>           | SRX644667                |
| <i>Atrina rigida</i>             | SRX687763                |
| <i>Azumapecten farreri</i>       | SRX404364; SRX218546     |
| <i>Cardites antiquata</i>        | SRX687773                |
| <i>Cerastoderma edule</i>        | SRX687776                |
| <i>Corbicula fluminea</i>        | SRX209446                |
| <i>Crassostrea angulata</i>      | SRX481252-4              |
| <i>Crassostrea corteziensis</i>  | SRX641340; SRX471689     |
| <i>Crassostrea hongkongensis</i> | SRX365659-60             |
| <i>Crassostrea virginica</i>     | SRX551498-516; SRX118365 |
| <i>Cycladicama cumingii</i>      | SRX687783                |
| <i>Cyrenoida floridana</i>       | SRX687777                |
| <i>Diplodonta sp. VG-2014</i>    | SRX701840                |

|                                    |                                                                                  |
|------------------------------------|----------------------------------------------------------------------------------|
| <i>Donacilla cornea</i>            | SRX687785                                                                        |
| <i>Elliptio complanata</i>         | TSA: GAHW00000000.1                                                              |
| <i>Ennucula tenuis</i>             | SRX091980                                                                        |
| <i>Eucrassatrella cumingii</i>     | SRX687772                                                                        |
| <i>Galeomma turtoni</i>            | SRX687768                                                                        |
| <i>Glossus humanus</i>             | SRX687780                                                                        |
| <i>Hiatella arctica</i>            | SRX687781                                                                        |
| <i>Lampsilis cardium</i>           | SRX687767                                                                        |
| <i>Lamychaena hians</i>            | SRX687779                                                                        |
| <i>Lasaea adansoni</i>             | SRX687778                                                                        |
| <i>Laternula elliptica</i>         | SRX1614611; SRX807593-8                                                          |
| <i>Lyonsia floridana</i>           | SRX687774                                                                        |
| <i>Margaritifera margaritifera</i> | SRX687769                                                                        |
| <i>Mercenaria campechiensis</i>    | SRX644681                                                                        |
| <i>Meretrix meretrix</i>           | SRX666741-4                                                                      |
| <i>Mizuhopecten yessoensis</i>     | SRX220583; SRX221165                                                             |
| <i>Mya arenaria</i>                | SRX687786                                                                        |
| <i>Myochama anomoides</i>          | SRX644684                                                                        |
| <i>Neotrigonia margaritacea</i>    | SRX644685                                                                        |
| <i>Ostrea chilensis</i>            | SRX565248-9                                                                      |
| <i>Ostrea edulis</i>               | SRX565250-9                                                                      |
| <i>Ostrea lurida</i>               | SRX175407                                                                        |
| <i>Ostreola stentina</i>           | SRX565260-1                                                                      |
| <i>Pecten maximus</i>              | SRX497464                                                                        |
| <i>Phacoides pectinatus</i>        | SRX687782                                                                        |
| <i>Pinctada martensi</i>           | SRX268302                                                                        |
| <i>Placopecten magellanicus</i>    | SRX687766                                                                        |
| <i>Polymesoda caroliniana</i>      | SRX687784                                                                        |
| <i>Pyganodon grandis</i>           | SRX310669-84                                                                     |
| <i>Ruditapes decussatus</i>        | SRX348803-8                                                                      |
| <i>Ruditapes philippinarum</i>     | SRX076440-63                                                                     |
| <i>Saccostrea glomerata</i>        | SRX1884692-727; SRX1838009-12; SRX1797576-85; SRX964403-13; SRX878217; SRX845376 |
| <i>Solemya velum</i>               | SRX091478                                                                        |
| <i>Sphaerium nucleus</i>           | SRX687787                                                                        |
| <i>Uniomerus tetralasmus</i>       | SRX310669-97                                                                     |
| <i>Villosa lienosa</i>             | SRX101836-9                                                                      |
| <i>Yoldia limatula</i>             | SRX687760                                                                        |

Table S3. In silico prediction of myctalin biological activities.

|     | sequence of mature peptide                       | length | isoelectric point | CAMP SVM | CAMP Random Forest | CAMP Discriminant Analysis | CAMP Neural Artificial Network | DBA predictor | iAMP-2L                         | ANTIBP2 score | ANTIBP2 classification | AMPA | Class AMP - SVM | ClassAMP - SVM (classification) | ClassA MP-RF | ClassAMP - RF (classification ) | ADP top hit | ADP details                             | AVP pred | dPA BBs | cellP PD | Pro% | Arg% | Trp% | Tyr% | Thr% |
|-----|--------------------------------------------------|--------|-------------------|----------|--------------------|----------------------------|--------------------------------|---------------|---------------------------------|---------------|------------------------|------|-----------------|---------------------------------|--------------|---------------------------------|-------------|-----------------------------------------|----------|---------|----------|------|------|------|------|------|
| A1  | IGWPRFPRLPRTPRYPRYPR<br>YPTWPTYPYRPSWPRYA-NH2    | 37     | 11.29             | 0.99     | 0.705              | 0.849                      | NO                             | NO            | YES - antibacterial             | 0.291         | Insect - lebocin       | 83%  | 94%             | antiviral                       | 85%          | antibacterial                   | 42.85%      | cathelicidin PR39                       | 1        | NO      | CPP      | 29%  | 21%  | 8%   | 16%  | 8%   |
| A2  | IGWPRFPRLPRTPRYPRYPR<br>YPRWPTYPYRPSWPRYA-NH2    | 37     | 11.51             | 0.997    | 0.719              | 0.903                      | NO                             | NO            | YES - antibacterial             | 0.304         | Insect - lebocin       | 89%  | 94%             | antiviral                       | 87%          | antibacterial                   | 45.23%      | cathelicidin PR39                       | 1        | NO      | CPP      | 29%  | 24%  | 8%   | 16%  | 5%   |
| A3  | YGWPRMPRIPKPRYPRYPR<br>RYPRWPRHPTIYA-NH2         | 32     | 11.57             | 0.975    | 0.512              | 0.878                      | NO                             | YES           | YES - antibacterial             | 0.413         | Insect - lebocin       | 95%  | 94%             | antiviral                       | 94%          | antibacterial                   | 42.42%      | A3-APO                                  | 1        | NO      | CPP      | 28%  | 25%  | 6%   | 15%  | 3%   |
| A4  | YSWPRMPRIPLRPRYPRYPR<br>YPRYPRWPRHPTIYA-NH2      | 35     | 11.51             | 0.992    | 0.558              | 0.697                      | NO                             | NO            | YES - antibacterial             | 0.305         | Insect - lebocin       | 94%  | 93%             | antiviral                       | 93%          | antibacterial                   | 42.22%      | Arasin-2                                | 1        | NO      | CPP      | 28%  | 25%  | 5%   | 17%  | 2%   |
| A5  | YSWPRMPRIPLRPRYPRYPR<br>YPRWPRWPRQPTIYA-NH2      | 35     | 11.72             | 0.982    | 0.541              | 0.424                      | NO                             | NO            | YES - antibacterial             | 0.399         | Insect - lebocin       | 94%  | 99%             | antibacterial                   | 95%          | antibacterial                   | 43.47%      | Arasin-2                                | 1        | NO      | CPP      | 28%  | 25%  | 8%   | 14%  | 2%   |
| A6  | YSWPLRPRLPRLPRYPRYPR<br>WPRHPTIYA-NH2            | 29     | 11.63             | 0.977    | 0.694              | 0.732                      | NO                             | NO            | YES - antibacterial             | 0.428         | Insect - lebocin       | 89%  | 95%             | antifungal                      | 96%          | antibacterial                   | 44.82%      | A3-APO                                  | 1        | NO      | CPP      | 27%  | 24%  | 6%   | 17%  | 3%   |
| A7  | YSWPLRPRLPRLPRYPRYPR<br>PRWPRHPTIYA-NH2          | 32     | 11.56             | 0.993    | 0.702              | 0.742                      | NO                             | NO            | YES - antibacterial             | 0.357         | Insect - lebocin       | 92%  | 94%             | antifungal                      | 95%          | antibacterial                   | 42.42%      | A3-APO                                  | 1        | NO      | CPP      | 28%  | 25%  | 6%   | 15%  | 3%   |
| A8  | YSWPRMPRIPLRPRYPRYPR<br>YPRWPRHPTIYA-NH2         | 32     | 11.56             | 0.973    | 0.515              | 0.69                       | NO                             | NO            | YES - antibacterial             | 0.391         | Insect - lebocin       | 92%  | 95%             | antibacterial                   | 95%          | antibacterial                   | 42.42%      | A3-APO                                  | 1        | NO      | CPP      | 28%  | 25%  | 6%   | 15%  | 3%   |
| A9  | YSWPRIPRIPLRPRYPRYPR<br>PRYPRWPRHPTIYA-NH2       | 35     | 11.51             | 0.997    | 0.705              | 0.837                      | NO                             | NO            | YES - antibacterial             | 0.309         | Insect - apidaecin     | 93%  | 94%             | antiviral                       | 93%          | antibacterial                   | 43.18%      | cathelicidin OaBac5                     | 1        | NO      | CPP      | 28%  | 25%  | 5%   | 17%  | 2%   |
| B1  | LRWTPTPSYRPRPTRSRGSR<br>WSR-NH2                  | 23     | 12.01             | 0.201    | 0.621              | 0.977                      | NO                             | NO            | YES - antibacterial, antifungal | -0.445        | /                      | 100% | 95%             | antiviral                       | 68%          | antibacterial                   | 40%         | A3-APO                                  | 0        | NO      | CPP      | 17%  | 26%  | 8%   | 8%   | 13%  |
| C1  | GRRRKYRYWRRGDRYWRR<br>GVTIERSKSSTLNTE            | 35     | 11.44             | 0.697    | 0.466              | 0.962                      | NO                             | NO            | YES - antibacterial             | 0.189         | Mammals - cathelicidin | 100% | 89%             | antifungal                      | 68%          | antibacterial                   | 35%         | rhesus macaque myeloid alpha-defensin-6 | 1        | YES     | CPP      | 0%   | 28%  | 5%   | 8%   | 8%   |
| C2  | GRRRRRYRYWRRGLTIQGR<br>SSTTITGD                  | 27     | 12.1              | 0.619    | 0.508              | 0.978                      | NO                             | NO            | YES - antibacterial, antifungal | -0.119        | /                      | 100% | 92%             | antiviral                       | 71%          | antibacterial                   | 37.50%      | chicken cathelicidin 2                  | 1        | NO      | CPP      | 0%   | 33%  | 3%   | 7%   | 14%  |
| C3  | RRRRRYRYWRRGLTIQGRSK<br>SLPLNTGD                 | 28     | 12.1              | 0.65     | 0.467              | 0.91                       | NO                             | NO            | YES - antibacterial, antifungal | 0.168         | Mammals - cathelicidin | 100% | 93%             | antiviral                       | 79%          | antibacterial                   | 37.83%      | rhesus macaque myeloid alpha-defensin-6 | 1        | NO      | CPP      | 3%   | 32%  | 3%   | 7%   | 7%   |
| C4  | RRRRRYRYWRRGVTIQGRS<br>KYSTLNTGE                 | 28     | 11.91             | 0.711    | 0.458              | 0.878                      | NO                             | NO            | NO                              | 0.091         | Mammals - cathelicidin | 100% | 93%             | antiviral                       | 65%          | antibacterial                   | 36.83%      | rhesus macaque myeloid alpha-defensin-6 | 1        | YES     | CPP      | 0%   | 32%  | 3%   | 10%  | 10%  |
| C5  | RRRWPRRVTRIRIPRYLTL<br>NTH                       | 24     | 12.6              | 0.997    | 0.67               | 0.996                      | YES                            | NO            | YES - antibacterial, antifungal | -0.138        | /                      | 100% | 98%             | antiviral                       | 97%          | antibacterial                   | 39.28%      | WBLU2                                   | 1        | YES     | CPP      | 8%   | 41%  | 4%   | 4%   | 12%  |
| C6  | RRRRRFRRVIRRIRLPKYL<br>TIN TE                    | 24     | 12.37             | 0.997    | 0.637              | 0.993                      | YES                            | NO            | YES - antibacterial, antifungal | -0.043        | /                      | 100% | 93%             | antiviral                       | 82%          | antibacterial                   | 41.37%      | chicken cathelicidin 2                  | 1        | YES     | CPP      | 4%   | 41%  | 0%   | 4%   | 8%   |
| C7  | RRRRWRRIRRGISIRLPKF<br>ATLNT                     | 25     | 12.54             | 0.981    | 0.719              | 0.984                      | YES                            | NO            | YES - antibacterial, antifungal | -0.007        | /                      | 100% | 97%             | antiviral                       | 89%          | antibacterial                   | 39.28%      | NRC-3                                   | 1        | YES     | CPP      | 4%   | 36%  | 4%   | 0%   | 8%   |
| C8  | RRRRWRRIRRGISHRLPKFA<br>TLNSD                    | 25     | 12.54             | 0.935    | 0.593              | 0.983                      | YES                            | YES           | YES - antibacterial, antifungal | -0.089        | /                      | 100% | 95%             | antiviral                       | 90%          | antibacterial                   | 35.71%      | NRC-3                                   | 1        | YES     | CPP      | 4%   | 36%  | 4%   | 0%   | 4%   |
| C9  | RRRRRYRYWRRGLTIQGRP<br>KSLPLNTGD                 | 28     | 12.1              | 0.722    | 0.495              | 0.903                      | NO                             | NO            | YES - antibacterial, antifungal | 0.015         | Mammals - cathelicidin | 100% | 94%             | antiviral                       | 81%          | antibacterial                   | 36.84%      | BG-CATH37                               | 2        | YES     | CPP      | 7%   | 32%  | 3%   | 7%   | 7%   |
| C10 | GRRRRYRYWRRGYRSWRR<br>GVTIERSKSSTLNTE            | 35     | 11.77             | 0.602    | 0.501              | 0.984                      | NO                             | NO            | YES - antibacterial             | 0.039         | Mammals - cathelicidin | 100% | 89%             | antifungal                      | 74%          | antibacterial                   | 36.58%      | rhesus macaque myeloid alpha-defensin-6 | 1        | NO      | CPP      | 0%   | 31%  | 5%   | 8%   | 8%   |
| D1  | WGRRWRIRIPSPPLRPWP<br>RPYPRPWPRSATINTDQ          | 36     | 12.3              | 0.509    | 0.681              | 0.455                      | NO                             | NO            | YES - antibacterial             | 0.346         | Frog - other           | 0%   | 99%             | antifungal                      | 94%          | antibacterial                   | 41.60%      | cathelicidin OaBac5                     | 1        | NO      | CPP      | 25%  | 25%  | 11%  | 2%   | 5%   |
| D2  | WGRRWRIRIPRLPWPWPPR<br>PKWPRSATINTDQ             | 32     | 12.48             | 0.738    | 0.699              | 0.726                      | NO                             | NO            | YES - antibacterial             | 0.146         | Frog - other           | 99%  | 99%             | antifungal                      | 96%          | antibacterial                   | 39.02%      | CRS4C-2                                 | 1        | NO      | CPP      | 21%  | 25%  | 12%  | 0%   | 6%   |
| D3  | WPRFPKPKPTYSGPTYPGP<br>TYPRPTLPRPTWRSATIGT<br>DH | 42     | 11.4              | 0.321    | 0.405              | 0.013                      | NO                             | NO            | YES - antibacterial             | 0.007         | Frog - other           | 0%   | 99%             | antifungal                      | 81%          | antibacterial                   | 38.29%      | Gm pro-rich pept 2                      | 1        | NO      | CPP      | 26%  | 14%  | 4%   | 7%   | 16%  |
| D4  | WPRFPKPKPTYSGPTYPGP<br>TWPRPTWPRPTWRSATID<br>TEH | 42     | 11.38             | 0.345    | 0.419              | 0.008                      | NO                             | NO            | YES - antibacterial             | 0.117         | Frog - other           | 0%   | 99%             | antifungal                      | 74%          | antibacterial                   | 37.25%      | cathelicidin OaBac5                     | 1        | NO      | CPP      | 28%  | 14%  | 9%   | 4%   | 16%  |

|         |                                                                             |    |       |       |       |       |     |     |                                    |        |              |      |     |               |     |               |        |                        |   |     |             |     |     |     |     |     |
|---------|-----------------------------------------------------------------------------|----|-------|-------|-------|-------|-----|-----|------------------------------------|--------|--------------|------|-----|---------------|-----|---------------|--------|------------------------|---|-----|-------------|-----|-----|-----|-----|-----|
| D5      | WPRFPKPRKPTYPGPTYPGP<br>TWPRPTWRRSATIDTEH<br>WRRRWVRVIPWPPRPWP<br>RSATINTDQ | 37 | 10.95 | 0.235 | 0.371 | 0.015 | NO  | NO  | YES - antibacterial                | 0.106  | Frog - other | 0%   | 99% | antibacterial | 73% | antibacterial | 37.20% | arasin-2               | 1 | NO  | CPP         | 27% | 13% | 8%  | 5%  | 16% |
| D6      | WGRRWRIRIPSPPRPWP<br>RPYPRPWPRSATINTDQ                                      | 27 | 12.48 | 0.495 | 0.631 | 0.841 | NO  | NO  | YES - antibacterial                | -0.018 | /            | 99%  | 97% | antiviral     | 90% | antibacterial | 37.03% | apidaecin              | 1 | YES | CPP         | 18% | 29% | 14% | 0%  | 7%  |
| D7      | LWGRPRWPYPRWPYPR<br>WPTYPRYYI-NH2                                           | 36 | 12.3  | 0.52  | 0.679 | 0.63  | NO  | NO  | YES - antibacterial                | 0.529  | Frog - other | 0%   | 98% | antifungal    | 94% | antibacterial | 43.75% | cathelicidin<br>OaBac5 | 1 | NO  | CPP         | 27% | 25% | 11% | 2%  | 5%  |
| Mp1     | FWRKQRARPSRQPFRW<br>WGNRRGSI-NH2                                            | 27 | 11.33 | 0.985 | 0.706 | 0.917 | NO  | NO  | YES - antibacterial                | 0.018  | Frog - other | 0%   | 91% | antiviral     | 88% | antibacterial | 44.44% | A3-APO                 | 1 | NO  | CPP         | 25% | 25% | 14% | 18% | 3%  |
| Mp2     | IWPVPRWPYPRPRWPR<br>WPFYPRVPVYI-NH2                                         | 26 | 12.85 | 0.923 | 0.704 | 0.992 | YES | NO  | YES - antibacterial                | -0.142 | /            | 100% | 97% | antiviral     | 86% | antibacterial | 39.39% | Melimine               | 0 | YES | CPP         | 11% | 30% | 11% | 0%  | 0%  |
| Mp3     | FWVRPRWPYPRWPYPR<br>WPRYPRWPYPRPRIYA-<br>NH2                                | 29 | 11.63 | 0.951 | 0.72  | 0.758 | NO  | NO  | YES - antibacterial                | 0.292  | Frog - other | 93%  | 97% | antifungal    | 89% | antibacterial | 44.66% | A3-APO                 | 1 | NO  | non-<br>CPP | 31% | 24% | 13% | 13% | 0%  |
| Mp4     | VRYNPFYRYRRWWVQ                                                             | 16 | 11.45 | 0.294 | 0.531 | 0.856 | NO  | YES | YES - antibacterial                | 0.002  | Frog - other | 0%   | 88% | antibacterial | 81% | antibacterial | 36.84% | Astacidin 2            | 1 | YES | non-<br>CPP | 6%  | 31% | 12% | 18% | 5%  |
| Mp5     | FWRKPRSRQRPRPKLRW/<br>GYRSSI-NH2                                            | 36 | 11.77 | 1     | 0.72  | 0.973 | NO  | NO  | YES - antibacterial                | 0.037  | Frog - other | 0%   | 89% | antiviral     | 70% | antibacterial | 44.18% | PR-39                  | 1 | NO  | CPP         | 27% | 30% | 13% | 16% | 0%  |
| Mk1/Mm1 | IRHYGYRRWWWDQT                                                              | 25 | 12.48 | 0.509 | 0.673 | 0.993 | YES | NO  | YES - antibacterial,<br>antifungal | -0.104 | /            | 0%   | 97% | antifungal    | 90% | antibacterial | 36.00% | Astacidin 2            | 1 | YES | CPP         | 12% | 32% | 12% | 4%  | 0%  |
| Mm2     | Modiolus philippinarum<br>Modiolus modiolus<br>Modiolus kuriensis           | 13 | 9.98  | 0.071 | 0.439 | 0.094 | NO  | NO  | NO                                 | ND     | /            | 93%  | 78% | antiviral     | 71% | antibacterial | 40.00% | Odorranain-T1          | 0 | YES | non-<br>CPP | 0%  | 23% | 15% | 15% | 7%  |