## SPAdes
| Unnamed: 0 | Unnamed: 1 | Unnamed: 2 | Unnamed: 3 | Unnamed: 4 | Unnamed: 5 | Unnamed: 6 | Unnamed: 7 | Unnamed: 8 | Assembly 1 | Unnamed: 10 | Unnamed: 11 | Unnamed: 12 | Unnamed: 13 | Unnamed: 14 | Unnamed: 15 | Unnamed: 16 | Unnamed: 17 | Unnamed: 18 | Unnamed: 19 | Unnamed: 20 | Assembly 2 | Unnamed: 22 | Unnamed: 23 | Unnamed: 24 | Unnamed: 25 | Unnamed: 26 | Unnamed: 27 | Unnamed: 28 | Unnamed: 29 | Unnamed: 30 | Unnamed: 31 | Unnamed: 32 | Asembly 3 | Unnamed: 34 | Unnamed: 35 | Unnamed: 36 | Unnamed: 37 | Unnamed: 38 | Unnamed: 39 | Unnamed: 40 | Unnamed: 41 | Unnamed: 42 | Unnamed: 43 | Unnamed: 44 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| RiPP | Plant | Dataset | Dataset size [GB] | Reads | Target precursor (GenBank ID) | Core peptides | Trimgalore - Walltime [min] | Trimgalore - Used memory [GB] | Wall time [min] | Used memory [GB] | BURP domain-assembled cores | Total detected cores | Detected unique correct cores | Total cores | Unique cores | Total cores in repeats | Detected cores in repeats | Similarity [%] | Identity [%] | Gaps [%] | Wall time [min] | Used memory [GB] | BURP domain-assembled cores | Total detected cores | Detected unique correct cores | Total cores | Unique cores | Total cores in repeats | Detected cores in repeats | Similarity [%] | Identity [%] | Gaps [%] | Wall time [min] | Used memory [GB] | BURP domain-assembled cores | Total detected cores | Detected unique correct cores | Total cores | Unique cores | Total cores in repeats | Detected cores in repeats | Similarity [%] | Identity [%] | Gaps [%] |
| burpitide | Lycium barbarum | SRR6896657 | 6.02 | 2x100bp | LbaLycA (AYN06992) | QPYGVGSW (1x), QPWGVGSW (8x), QPYGVGIW (3x) | 22.18 | 2.3 | 29.42 | 6.7 | QPWGVGSW (6x), QPYGVGSW (3x), QPYGVGIW (1x) | 10 | 3 | 12 | 3 | 12 | 10 | 63.5 | 62.2 | 35.2 | 29.65 | 5.3 | QPYGVGSW (4x), QPWGVGSW (2x) | 10 | 3 | 12 | 3 | 12 | 10 | 63.5 | 62.2 | 35.2 | 46.1 | 5.8 | QPYGVGSW (4x), QPWGVGSW (2x) | 10 | 3 | 12 | 3 | 12 | 10 | 63.5 | 62.2 | 35.2 |
| burpitide | Cercis canadensis | ERR706845 | 4.53 | 2x90bp | CcaBURP1 (QXY82432) | QILFW (17x) | 1.02 | 0.54 | 6.18 | 4.2 | QILFW (11x, partial BURP) | 11 | 1 | 17 | 1 | 17 | 11 | 72.1 | 72.1 | 27.6 | 6.05 | 4.3 | QILFW (11x, partial BURP) | 11 | 1 | 17 | 1 | 17 | 11 | 72.1 | 72.1 | 27.6 | 7.88 | 4.3 | QILFW (11x, partial BURP) | 11 | 1 | 17 | 1 | 17 | 11 | 72.1 | 72.1 | 27.6 |
| burpitide | NaN | NaN | NaN | NaN | CcaBURP2 (QXY82433) | QLLVW (5x) | NaN | NaN | NaN | NaN | QLLVW (2x, partial BURP) | 2 | 1 | 8 | 2 | 8 | 2 | 57.4 | 57.4 | 42.4 | NaN | NaN | QLLVW (2x, partial BURP) | 2 | 1 | 8 | 2 | 8 | 2 | 57.4 | 57.4 | 42.4 | NaN | NaN | QLLVW (2x, partial BURP) | 2 | 1 | 8 | 2 | 8 | 2 | 57.4 | 57.4 | 42.4 |
| burpitide | Selaginella kraussiana | ERR2040879 | 7.31 | 2x90bp | SkrBURP (QXY82431) | VLFYPSY (5x) | 7.86 | 1.9 | 10.58 | 4.5 | ILLYPSY (1x), VLFYPSY (2x), FLLYPSY (1x), VLFYRSY (1x) | 5 | 3 | 7 | 3 | 7 | 5 | 78.6 | 76.9 | 20.7 | 9.85 | 4.3 | ILLYPSY (1x), VLFYPSY (2x), FLLYPSY (1x), VLFYRSY (1x) | 5 | 3 | 7 | 3 | 7 | 5 | 78.6 | 76.9 | 20.7 | 9.77 | 4.4 | ILLYPSY (1x), VLFYPSY (2x), FLLYPSY (1x), VLFYRSY (1x) | 5 | 3 | 7 | 3 | 7 | 5 | 78.6 | 76.9 | 20.7 |
| burpitide | Kerria japonica | ERR2040423 | 6.89 | 2x90bp | KjaBURP (QIG55799) | QLLVWRGH (3x), QLLVWRAH (1x) | 4.25 | 2 | 12.87 | 4.5 | QLLVWRGH (3x), QLLVWRAH (1x) | 4 | 2 | 4 | 2 | 4 | 4 | 100 | 100 | 0 | 42.32 | 4.1 | QLLVWRGH (3x), QLLVWRAH (1x) | 4 | 2 | 4 | 2 | 4 | 4 | 100 | 100 | 0 | 18 | 4.3 | QLLVWRGH (3x), QLLVWRAH (1x) | 4 | 2 | 4 | 2 | 4 | 4 | 100 | 100 | 0 |
| burpitide | Glycine max | SRR24423494 | 26.86 | 2x150bp | Sali3-2 (AAB66369) | QPYGVYTW (1x) | 23.93 | 2.7 | 79.57 | 10 | QPYGVYTW (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 97.8 | 0 | 139.9 | 12 | QPYGVYTW (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 97.8 | 0 | 77.68 | 10 | QPYGVYTW (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 97.8 | 0 |
| burpitide | NaN | NaN | NaN | NaN | Glyma.04G180400 | VPPIFY (3x), IPPFFSY (2x), VPPYFY (1x), VPPFFY (1x), VPIFY (2x), VPIFWY (1x) | NaN | NaN | NaN | NaN | VPPIFY (3x), IPPFFSY (1x), VPPYFY (1x), VPPFFY (1x), VPIFY (2x), VPIFWY (1x) | 9 | 6 | 10 | 6 | 10 | 9 | 96.7 | 96.7 | 3.3 | NaN | NaN | VPPIFY (3x), IPPFFSY (1x), VPPYFY (1x), VPPFFY (1x), VPIFY (2x), VPIFWY (1x) | 9 | 6 | 10 | 6 | 10 | 9 | 96.7 | 96.7 | 3.3 | NaN | NaN | VPPIFY (3x), IPPFFSY (1x), VPPYFY (1x), VPPFFY (1x), VPIFY (2x), VPIFWY (1x) | 9 | 6 | 10 | 6 | 10 | 9 | 96.7 | 96.7 | 3.3 |
| burpitide | Amaranthus hypochondriacus | SRR1598913 | 11.51 | 2x90bp | AH023187-RA | QPYTVGSW (7x), QPYTVFSW (5x) | 3.05 | 2.4 | 31.15 | 4.6 | QPYTVGSW (3x) | 3 | 1 | 12 | 2 | 12 | 3 | 42.6 | 42.6 | 57.1 | 24.43 | 4.6 | QPYTVGSW (3x) | 3 | 1 | 12 | 2 | 12 | 3 | 42.6 | 42.6 | 57.1 | 31.25 | 4.6 | QPYTVGSW (3x) | 3 | 1 | 12 | 2 | 12 | 3 | 42.6 | 42.6 | 57.1 |
| burpitide | Chenopodium quinoa | SRR5974433 | 19.34 | 2x101bp | CquBURP (XP\_021740703) | QPYTVWGW (5x), QPFTVVGW (1x), QPYTVMGW (2x) | 15.17 | 2.4 | 50.37 | 9.4 | QPYTVWGW (2x), QPYTVMGW (1x) | 3 | 2 | 8 | 3 | 8 | 3 | 54.9 | 54.8 | 45.1 | 42.38 | 8.2 | QPYTVWGW (2x), QPYTVMGW (1x) | 3 | 2 | 8 | 3 | 8 | 3 | 54.9 | 54.8 | 45.1 | 53.42 | 9.2 | QPYTVWGW (2x), QPYTVMGW (1x) | 3 | 2 | 8 | 3 | 8 | 3 | 54.9 | 54.8 | 45.1 |
| burpitide | Coffea arabica | SRR1777904 | 3.38 | 2x100bp | ArbA2 (XP\_027066141) | FLWGY (3x) | 5.56 | 0.71 | 10.08 | 4.2 | FLWGY (3x) | 3 | 1 | 3 | 1 | 3 | 3 | 82.4 | 82.4 | 16.1 | 10.3 | 4.3 | FLWGY (5x) | 3 | 1 | 3 | 1 | 3 | 3 | 82.4 | 82.4 | 16.1 | 15.9 | 4.4 | FLWGY (5x) | 3 | 1 | 3 | 1 | 3 | 3 | 82.4 | 82.4 | 16.1 |
| cyclotide | Oldenlandia affinis | SRR7440026 | 80.02 | 2x100bp | Oak1 (AAL05477) | GLPVCGETCVGGTCNTPGCTCSWPVCTRN (1x) | 14.42 | 2.6 | 259.93 | 23 | GLPVCGETCVGGTCNTPGCTCSWPVCTRN (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 100 | 0 | 195.1 | 24 | GLPVCGETCVGGTCNTPGCTCSWPVCTRN (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 100 | 0 | 173.58 | 23 | GLPVCGETCVGGTCNTPGCTCSWPVCTRN (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 100 | 0 |
| cyclotide | NaN | NaN | NaN | NaN | Oak2 (AAL05478) | GLPTCGETCFGGTCNTPGCSCSSWPICTRN (1x), GLPTCGETCFGGTCNTPGCTCDPWPICTRD (1x) | NaN | NaN | NaN | NaN | GLPTCGETCFGGTCNTPGCSCSSWPICTRN (1x), GLPTCGETCFGGTCNTPGCTCDPWPICTRD (1x) | 2 | 2 | 2 | 2 | 2 | 2 | 100 | 100 | 0 | NaN | NaN | GLPTCGETCFGGTCNTPGCSCSSWPICTRN (1x) | 2 | 2 | 2 | 2 | 2 | 2 | 100 | 100 | 0 | NaN | NaN | GLPTCGETCFGGTCNTPGCSCSSWPICTRN (1x) | 2 | 2 | 2 | 2 | 2 | 2 | 100 | 100 | 0 |
| cyclotide | NaN | NaN | NaN | NaN | Oak3 (AAL05479) | GLPVCGETCTLGTCYTQGCTCSWPICKRN (1x) | NaN | NaN | NaN | NaN | GLPVCGETCTLGTCYTQGCTCSWPICKRN (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 100 | 0 | NaN | NaN | GLPVCGETCTLGTCYTQGCTCSWPICKRN (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 100 | 0 | NaN | NaN | GLPVCGETCTLGTCYTQGCTCSWPICKRN (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 100 | 0 |
| cyclotide | NaN | NaN | NaN | NaN | Oak4 (AAL05480) | GLPVCGETCFGGTCNTPGCSCTWPICTRD (3x) | NaN | NaN | NaN | NaN | GLPVCGETCFGGTCNTPGCSCTWPICTRD (1x), GGKTSETTLHMFQKEMQLKGLPVCGETCFGGTCN (1x) | 2 | 1 | 3 | 1 | 3 | 1 | 71 | 70.4 | 25.7 | NaN | NaN | GLPVCGETCFGGTCNTPGCSCTWPICTRD (1x) | 2 | 1 | 3 | 1 | 3 | 1 | 71 | 70.4 | 25.7 | NaN | NaN | GLPVCGETCFGGTCNTPGCSCTWPICTRD (1x) | 2 | 1 | 3 | 1 | 3 | 1 | 71 | 70.4 | 25.7 |
| cyclotide | Momordica cochinchinensis | SRR8857716 | 33 | 2x100bp | TIPTOP1 (AEK70372) | GGVCPKILKKCRRDSDCPGACICRGNGYCGSGSD (3x), GGVCPKILQRCRRDSDCPGACICRGNGYCGSGSD (1x) | 6.93 | 2.4 | 48.98 | 5.9 | GGVCPKILKKCRRDSDCPGACICRGNGYCGSGSD (1x) | 1 | 1 | 4 | 2 | 4 | 1 | 34.2 | 33.1 | 65.8 | 73.27 | 6.2 | GGVCPKILKKCRRDSDCPGACICRGNGYCGSGSD (1x) | 1 | 1 | 4 | 2 | 4 | 1 | 34.2 | 33.1 | 65.8 | 83.88 | 7.3 | GGVCPKILKKCRRDSDCPGACICRGNGYCGSGSD (1x) | 1 | 1 | 4 | 2 | 4 | 1 | 34.2 | 33.1 | 65.8 |
| cyclotide | NaN | NaN | NaN | NaN | TIPTOP2 (AEK70373) | GGVCPKILKKCRRDSDCPGACICRGNGYCGSGSD (2x), GGACPRILKKCRRDSDCPGACVCQGNGYCGSGSD (1x), GGVCPKILQRCRRDSDCPGACICRGNGYCGSGSD (1x) | NaN | NaN | NaN | NaN | GGVCPKILKKCRRDSDCPGACICRGNGYCGSGSD (1x) | 1 | 1 | 4 | 3 | 4 | 1 | 29 | 28.4 | 71 | NaN | NaN | GGVCPKILKKCRRDSDCPGACICRGNGYCGSGSD (1x) | 1 | 1 | 4 | 3 | 4 | 1 | 29 | 28.4 | 71 | NaN | NaN | GGVCPKILKKCRRDSDCPGACICRGNGYCGSGSD (1x) | 1 | 1 | 4 | 3 | 4 | 1 | 29 | 28.4 | 71 |
| cyclotide | NaN | NaN | NaN | NaN | TIPTOP3 (AEK70374) | GGVCPKILKKCRRDSDCPGACICRGNGYCGSGSD (4x), GGVCPKILKKCRRDSDCPGACVCKGNGYCGSGSD (1x), GGGVYDEKQRACPRILKKCRRDSDCPGECICQGNGYCG (1x) | NaN | NaN | NaN | NaN | GGVCPKILKKCRRDSDCPGACICRGNGYCGSGSD (1x) | 1 | 1 | 6 | 3 | 6 | 1 | 22.3 | 21.1 | 77.7 | NaN | NaN | GGVCPKILKKCRRDSDCPGACICRGNGYCGSGSD (1x) | 1 | 1 | 6 | 3 | 6 | 1 | 22.3 | 21.1 | 77.7 | NaN | NaN | GGVCPKILKKCRRDSDCPGACICRGNGYCGSGSD (1x) | 1 | 1 | 6 | 3 | 6 | 1 | 22.3 | 21.1 | 77.7 |
| cyclotide | Clitoria ternatea | SRR2063750 | 11.27 | 2x150bp | CterM precursor (AEB92229) | GGLPTCGETCTLGTCYVPDCSCSWPICMKN (1x) | 18.6 | 2.4 | 34.2 | 6.5 | GGLPTCGETCTLGTCYVPDCSCSWPICMKN (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 100 | 0 | 33.83 | 6.5 | GGLPTCGETCTLGTCYVPDCSCSWPICMKN (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 100 | 0 | 34.45 | 7 | GGLPTCGETCTLGTCYVPDCSCSWPICMKN (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 100 | 0 |
| PawS-derived RiPP | Helianthus annus | SRR7691057 | 17.02 | 2x151bp | PawS1 (ACT34883) | GRCTKSIPPICFPD (1x) | 27.95 | 2.7 | 36.02 | 4.6 | GRCTKSIPPICFPD (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 99.3 | 98 | 0 | 35.63 | 4.4 | GRCTKSIPPICFPD (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 99.3 | 98 | 0 | 38.22 | 4.4 | GRCTKSIPPICFPD (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 99.3 | 98 | 0 |
| PawS-derived RiPP | NaN | NaN | NaN | NaN | PawS2 (ACS74804) | GCIEGSPVCFPD (1x) | NaN | NaN | NaN | NaN | GCIEGSPVCFPD (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 95.6 | 92.7 | 0 | NaN | NaN | GCIEGSPVCFPD (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 95.6 | 92.7 | 0 | NaN | NaN | GCIEGSPVCFPD (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 95.6 | 92.7 | 0 |
| cysteine-rich peptide | Triticum aestivum | SRR9593828 | 24.34 | 2x149bp | Defensin-like protein 1 (XP\_044389906) | KICRRRSAGFKGPCMSNKNCAQVCQQEGWGGGNCDGPFRRCKCIRQC (1x) | 38.32 | 2.7 | 102.83 | 19 | KICRRRSAGFKGPCMSNKNCAQVCQQEGWGGGNCDGPFRRCKCIRQC (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 100 | 0 | 97.62 | 19 | KICRRRSAGFKGPCMSNKNCAQVCQQEGWGGGNCDGPFRRCKCIRQC (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 100 | 0 | 97.32 | 20 | KICRRRSAGFKGPCMSNKNCAQVCQQEGWGGGNCDGPFRRCKCIRQC (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 100 | 0 |
| linear RiPP | Nicotiana tabacum | SRR8934908 | 19.57 | 2x150bp | proTOBSYS-A (AAK52096) | NRKPLSPPSPKPADGQRP (1x) | 15.37 | 2.7 | 68.43 | 11 | NRKPLSPPSPKPADGHRP (1x) | 1 | 0 | 1 | 1 | 0 | 0 | 91.5 | 88.5 | 0.6 | 69.78 | 10 | NRKPLSPPSPKPADGHRP (1x) | 1 | 0 | 1 | 1 | 0 | 0 | 91.5 | 88.5 | 0.6 | 58.87 | 11 | NRKPLSPPSPKPADGHRP (1x) | 1 | 0 | 1 | 1 | 0 | 0 | 91.5 | 88.5 | 0.6 |
| linear RiPP | Asparagus officinalis | SRR8741629 | 17.94 | 2x150bp | Phytosulfokine precursor protein (PSK) (Q9FS10) | YIYTQ (1x) | 21.7 | 2.7 | 63.37 | 9.8 | YIYTQ (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 98.7 | 98.7 | 0 | 96.25 | 8.8 | YIYTQ (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 98.7 | 98.7 | 0 | 85.55 | 8.4 | YIYTQ (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 98.7 | 98.7 | 0 |
| cysteine-rich peptide | Hevea brasiliensis | SRR8371777 | 43.51 | 2x75bp | Hevein precursor (AAA33357) | EQCGRQAGGKLCPNNLCCSQWGWCGSTDEYCSPDHNCQSNCKD (1x) | 12.32 | 2.6 | 87.07 | 14 | EQCGRQAGGKLCPNNLCCSQWGWCGSTDEYCSPDHNCQSNCKD (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 99 | 98.5 | 0 | 89.67 | 13 | EQCGRQAGGKLCPNNLCCSQWGWCGSTDEYCSPDHNCQSNCKD (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 99 | 98.5 | 0 | 90.37 | 14 | EQCGRQAGGKLCPNNLCCSQWGWCGSTDEYCSPDHNCQSNCKD (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 99 | 98.5 | 0 |
| cysteine-rich peptide | Eucommia ulmoides | SRR7829611 | 17.39 | 2x125bp | EAFP1 precursor (WED30098) | QTCASRCPRPCNAGLCCSIYGYCGSGNAYCGAGNCRCQCRG (1x) | 16.08 | 2.6 | 73.67 | 7.9 | QTCASRCPRPCNAGLCCSIYGYCGSGAAYCGAGNCRCQCRG (1x) | 1 | 0 | 1 | 1 | 0 | 0 | 99 | 98.7 | 0 | 59.05 | 7.4 | QTCASRCPRPCNAGLCCSIYGYCGSGAAYCGAGNCRCQCRG (1x) | 1 | 0 | 1 | 1 | 0 | 0 | 99 | 98.7 | 0 | 47.15 | 7 | QTCASRCPRPCNAGLCCSIYGYCGSGAAYCGAGNCRCQCRG (1x) | 1 | 0 | 1 | 1 | 0 | 0 | 99 | 98.7 | 0 |
| cysteine-rich peptide | Jasminum sambac | SRR1793303 | 10.9 | NaN | Jasminitide S1 precursor (ALO52196) | QLCLQCRSNSDCNIIWRICRDGCCNVI (1x) | 8.71 | 2.5 | 23.82 | 4.7 | QLCLQCRSDDDCNIIWRICRYGCCNVI (1x) | 1 | 0 | 1 | 1 | 0 | 0 | 98 | 96 | 0 | 23.52 | 5.1 | QLCLQCRSDDDCNIIWRICRYGCCNVI (1x) | 1 | 0 | 1 | 1 | 0 | 0 | 98 | 96 | 0 | 28.52 | 4.7 | QLCLQCRSDDDCNIIWRICRYGCCNVI (1x) | 1 | 0 | 1 | 1 | 0 | 0 | 98 | 96 | 0 |
| orbitide | Senecio pinnatifolius var. maritimus | SRR5237253 | 26.9 | 2x101bp | PawL1b (ARD06067) | FFDAAKID (1x) | 5.68 | 2.6 | 82.1 | 4.4 | FFDAAKID (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 99.4 | 0 | 59.93 | 4.3 | FFDAAKID (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 99.4 | 0 | 53.75 | 5.4 | FFDAAKID (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 99.4 | 0 |
| orbitide | Linum usitatissimum | SRR16573723 | 20.03 | 2x147bp | Linusorb A1-A3 precursor protein (FAA04139) | MLMPFFWI (3x), MLLPFFWI (1x), MLMPFFWV (1x) | 3.7 | 2.6 | 72.93 | 8 | MLMPFFWI (3x), MLLPFFWI (1x), MLMPFFWV (1x) | 5 | 3 | 5 | 3 | 5 | 5 | 100 | 100 | 0 | 65.48 | 7.9 | MLMPFFWI (3x), MLLPFFWI (1x), MLMPFFWV (1x) | 5 | 3 | 5 | 3 | 5 | 5 | 100 | 100 | 0 | 61.45 | 8.5 | MLMPFFWI (3x), MLLPFFWI (1x), MLMPFFWV (1x) | 5 | 3 | 5 | 3 | 5 | 5 | 100 | 100 | 0 |
| burpitide | Solanum tuberosum | SRR21350426 | 37.69 | 2x124bp | StuBURP (AYN06994) | QPYGVFAW (5x), QPYGVDGW (1x) | 54.45 | 2.8 | 126.82 | 13 | QPYGVFAW (5x), QPYGVDGW (1x) | 6 | 2 | 6 | 2 | 6 | 6 | 98.6 | 97.6 | 0.7 | 95.38 | 12 | QPYGVFAW (3x) | 6 | 2 | 6 | 2 | 6 | 6 | 98.6 | 97.6 | 0.7 | 103.92 | 12 | QPYGVFAW (3x) | 6 | 2 | 6 | 2 | 6 | 6 | 98.6 | 97.6 | 0.7 |
| cysteine-rich peptide | NaN | NaN | NaN | NaN | Metallocarboxypeptidase\ninhibitor IIa precursor (NP\_001275048) | QQHADPICNKPCKTHDDCSGAWFCQACWNSARTCGPYVG (1x) | NaN | NaN | NaN | NaN | QQHADPICNKPCKTHDDCSGAWFCQACWNSARTCGPYVG (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 100 | 0 | NaN | NaN | QQHADPICNKPCKTHDDCSGAWFCQACWNSARTCGPYVG (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 100 | 0 | NaN | NaN | QQHADPICNKPCKTHDDCSGAWFCQACWNSARTCGPYVG (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 100 | 0 |
| cysteine-rich peptide | Panax ginseng | SRR25992354 | 21.32 | 2x150bp | Ginsentide precursor (AAX40471.1) | CKSGGAWCGFDPHGCCGNCGCLVGFCYGTGC (1x) | 4.7 | 2.5 | 73.23 | 10 | CKSSGAWCGFDPHGCCGNCGCLVGFCYGTGC (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 100 | 0 | 96.73 | 10 | CKSSGAWCGFDPHGCCGNCGCLVGFCYGTGC (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 100 | 0 | 58.03 | 11 | CKSSGAWCGFDPHGCCGNCGCLVGFCYGTGC (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 100 | 0 |
| cysteine-rich peptide | Impatiens balsamina | ERR3487357 | 7.2 | 2x90bp | IbAMP precursor (O24006) | QWGRRCCGWGPGRRYCVRWC (2x), QYRHRCCAWGPGRKYCKRWC, QYGRRCCNWGPGRRYCKRWC | 7.95 | 2 | 20.33 | 8.1 | QWGRRCCGWGPGRRYCRRWC (1x), QYGRRCCAWGPGRRYCRRWC (1x), QYGRRCCSWDPYRRYCRRWC (1x) | 3 | 0 | 5 | 4 | 5 | 3 | 50.8 | 47.7 | 44.4 | 22.6 | 6.7 | QWGRRCCGWGPGRRYCRRWC (2x), QYGRRCCAWGPGRRYCRRWC (1x), QYGRRCCSWDPYRRYCRRWC (1x) | 3 | 0 | 5 | 4 | 5 | 3 | 50.8 | 47.7 | 44.4 | 21.53 | 6.5 | QWGRRCCGWGPGRRYCRRWC (2x), QYGRRCCAWGPGRRYCRRWC (1x), QYGRRCCSWDPYRRYCRRWC (1x) | 3 | 0 | 5 | 4 | 5 | 3 | 50.8 | 47.7 | 44.4 |
| cysteine-rich peptide | Triticum kiharae | SRR7511484 | 23.81 | 2x62bp | WAMP-1a precursor (P85966) | AQRCGDQARGAKCPNCLCCGKYGFCGSGDAYCGAGSCQSQCRGCR (1x) | 33 | 2.5 | 64.11 | 13 | AQRCGDQARGAKCPNCLCCGKYGFCGSGDAYCGKGSCQSQCRGCR (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 94 | 94 | 4.3 | 61.9 | 14 | AQRCGDQARGAKCPNCLCCGKYGFCGSGDAYCGKGSCQSQCRGCR (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 94 | 94 | 4.3 | 84.85 | 14 | AQRCGDQARGAKCPNCLCCGKYGFCGSGDAYCGKGSCQSQCRGCR (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 94 | 94 | 4.3 |
| cysteine-rich peptide | Petunia x hybrida | SRR6394744 | 38.15 | 2x150bp | Petunia defensin precursor (ADV59771) | ATCKAECPTWDSVCINKKPCVACCKKAKFSDGHCSKILRRCLCTKEC (1x) | 34.23 | 2.5 | 62.18 | 10 | ATCKAECPTWDSVCINKKPCVACCKKAKFSDGHCSKILRRCLCTKEC (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 99 | 99 | 0 | 62.42 | 9.6 | ATCKAECPTWDSVCINKKPCVACCKKAKFSDGHCSKILRRCLCTKEC (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 99 | 99 | 0 | 78.85 | 9.7 | ATCKAECPTWDSVCINKKPCVACCKKAKFSDGHCSKILRRCLCTKEC (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 99 | 99 | 0 |
| cysteine-rich peptide | Crambe hispanica subsp. | SRR11638385 | 7.43 | 2x244bp | Crambin precursor (S52550) | TTCCPSIVARSNFNVCRLPGTAEPICATDTGCIIIPGATCPGDYPN (1x) | 9.7 | 2.3 | 55.85 | 9.2 | TTCCPSIVTRSRYDVCRLPGTSEAICAAYTGCIIIPGAACPADYPN (1x) | 1 | 0 | 1 | 1 | 0 | 0 | 86.6 | 79.9 | 6.7 | 56.92 | 9.5 | TTCCPSIVTRSRYDVCRLPGTSEAICAAYTGCIIIPGAACPADYPN (1x) | 1 | 0 | 1 | 1 | 0 | 0 | 86.6 | 79.9 | 6.7 | 60.57 | 9.2 | TTCCPSIVTRSRYDVCRLPGTSEAICAAYTGCIIIPGAACPADYPN (1x) | 1 | 0 | 1 | 1 | 0 | 0 | 86.6 | 79.9 | 6.7 |
| cysteine-rich peptide | Potentilla anserina | ERR9435015 | 14.47 | 2x151bp | Potentide pA1 precursor (XP\_050382506) | GFIPYPECIEKCDECVICTKIYPIEAALCYCGKKT, GFIPYPECIEKCDECVICTLPYPIEKALCYCGMNT, GTIPYTECIKTCDECFCTQKWPPESNVCICINH, QKIPFLLCDRVCDRCICDRRVPEHAECTCAQW | 22.13 | 2.7 | 59.92 | 12 | GFIPYPECIEKCDECVICTKIYPIEAALCYCGKKT, GFIPYPECIEKCDECVICTLPYPIEKALCYCGMNT, GTIPYTECIKTCDECFCTQKWPPESNVCICINH, QKIPFLLCDRVCDRCICDRRVPELAECTCAQW | 4 | 3 | 4 | 4 | 4 | 4 | 97.2 | 96.5 | 0.7 | 58.15 | 12 | GFIPYPECIEKCDECVICTKIYPIEAALCYCGKKT, GFIPYPECIEKCDECVICTLPYPIEKALCYCGMNT, GTIPYTECIKTCDECFCTQKWPPESNVCICINH, QKIPFLLCDRVCDRCICDRRVPELAECTCAQW | 4 | 3 | 4 | 4 | 4 | 4 | 97.2 | 96.5 | 0.7 | 58.55 | 12 | GFIPYPECIEKCDECVICTKIYPIEAALCYCGKKT, GFIPYPECIEKCDECVICTLPYPIEKALCYCGMNT, GTIPYTECIKTCDECFCTQKWPPESNVCICINH, QKIPFLLCDRVCDRCICDRRVPELAECTCAQW | 4 | 3 | 4 | 4 | 4 | 4 | 97.2 | 96.5 | 0.7 |

## MEGAHIT
| Unnamed: 0 | Unnamed: 1 | Unnamed: 2 | Unnamed: 3 | Unnamed: 4 | Unnamed: 5 | Unnamed: 6 | Unnamed: 7 | Unnamed: 8 | Assembly 1 | Unnamed: 10 | Unnamed: 11 | Unnamed: 12 | Unnamed: 13 | Unnamed: 14 | Unnamed: 15 | Unnamed: 16 | Unnamed: 17 | Unnamed: 18 | Unnamed: 19 | Unnamed: 20 | Assembly 2 | Unnamed: 22 | Unnamed: 23 | Unnamed: 24 | Unnamed: 25 | Unnamed: 26 | Unnamed: 27 | Unnamed: 28 | Unnamed: 29 | Unnamed: 30 | Unnamed: 31 | Unnamed: 32 | Assembly 3 | Unnamed: 34 | Unnamed: 35 | Unnamed: 36 | Unnamed: 37 | Unnamed: 38 | Unnamed: 39 | Unnamed: 40 | Unnamed: 41 | Unnamed: 42 | Unnamed: 43 | Unnamed: 44 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| RiPP | Plant | Dataset | Dataset size [GB] | Reads | Target precursor (GenBank ID) | Core peptides | Trimgalore - Walltime [min] | Trimgalore - Used memory [GB] | Wall time [min] | Used memory [GB] | BURP domain-assembled cores | Total detected cores | Detected unique correct cores | Total cores | Unique cores | Total cores in repeats | Detected cores in repeats | Identity [%] | Similarity [%/%] | Gaps [%] | Wall time [min] | Used memory [GB] | BURP domain-assembled cores | Total detected cores | Detected unique correct cores | Total cores | Unique cores | Total cores in repeats | Detected cores in repeats | Similarity [%] | Identity [%] | Gaps [%] | Wall time [min] | Used memory [GB] | BURP domain-assembled cores | Total detected cores | Detected unique correct cores | Total cores | Unique cores | Total cores in repeats | Detected cores in repeats | Similarity [%] | Identity [%] | Gaps [%] |
| burpitide | Lycium barbarum | SRR6896657 | 6.02 | 2x100bp | LbaLycA (AYN06992) | QPYGVGSW (1x), QPWGVGSW (8x), QPYGVGIW (3x) | 22.18 | 2.3 | 17.13 | 3 | QPWGVGSW (1x), QPYGVGIW (1x) | 2 | 2 | 12 | 3 | 12 | 2 | 60.4 | 60.4 | 39.6 | 18 | 3 | QPWGVGSW (1x), QPYGVGIW (1x) | 2 | 2 | 12 | 3 | 12 | 2 | 60.4 | 60.4 | 39.6 | 21.5 | 3 | QPWGVGSW (1x), QPYGVGIW (1x) | 2 | 2 | 12 | 3 | 12 | 2 | 60.4 | 60.4 | 39.6 |
| burpitide | Cercis canadensis | ERR706845 | 4.53 | 2x90bp | CcaBURP1 (QXY82432) | QILFW (17x) | 1.02 | 0.54 | 3.73 | 1.1 | QILFW (3x) | 3 | 1 | 17 | 1 | 17 | 3 | 46.8 | 46.8 | 53.2 | 4.13 | 1.1 | QILFW (3x) | 3 | 1 | 17 | 1 | 17 | 3 | 46.8 | 46.8 | 53.2 | 4.5 | 1.1 | QILFW (3x) | 3 | 1 | 17 | 1 | 17 | 3 | 46.8 | 46.8 | 53.2 |
| burpitide | NaN | NaN | NaN | NaN | CcaBURP2 (QXY82433) | QLLVW (5x), QLKVW (3x) | NaN | NaN | NaN | NaN | QLLVW (1x) | 1 | 1 | 8 | 2 | 8 | 1 | 55.5 | 55.5 | 44.5 | NaN | NaN | QLLVW (1x) | 1 | 1 | 8 | 2 | 8 | 1 | 55.5 | 55.5 | 44.5 | NaN | NaN | QLLVW (1x) | 1 | 1 | 8 | 2 | 8 | 1 | 55.5 | 55.5 | 44.5 |
| burpitide | Selaginella kraussiana | ERR2040879 | 7.31 | 2x90bp | SkrBURP (QXY82431) | ILLYPSY (1x), VLFYRSY (1x), VLFYPSY (5x) | 7.86 | 1.9 | 5.71 | 1.8 | VLFYPSY (2x), VLFYRSY (1x), ILLYPSY (1x) | 4 | 3 | 7 | 3 | 7 | 4 | 81.6 | 79.8 | 17.7 | 5.3 | 1.8 | VLFYPSY (2x), VLFYRSY (1x), ILLYPSY (1x) | 4 | 3 | 7 | 3 | 7 | 4 | 81.6 | 79.8 | 17.7 | 5.1 | 1.8 | VLFYPSY (2x), VLFYRSY (1x), ILLYPSY (1x) | 4 | 3 | 7 | 3 | 7 | 4 | 81.6 | 79.8 | 17.7 |
| burpitide | Kerria japonica | ERR2040423 | 6.89 | 2x90bp | KjaBURP (QIG55799) | QLLVWRGH (3x), QLLVWRAH (1x) | 4.25 | 2 | 7.7 | 1.7 | QLLVWRGH (3x), QLLVWRAH (1x) | 4 | 2 | 4 | 2 | 4 | 4 | 100 | 100 | 0 | 5.6 | 1.7 | QLLVWRGH (3x), QLLVWRAH (1x) | 4 | 2 | 4 | 2 | 4 | 4 | 100 | 100 | 0 | 9.6 | 1.7 | QLLVWRGH (3x), QLLVWRAH (1x) | 4 | 2 | 4 | 2 | 4 | 4 | 100 | 100 | 0 |
| burpitide | Glycine max | SRR24423494 | 26.86 | 2x150bp | Sali3-2 (AAB66369) | QPYGVYTW (1x) | 23.93 | 2.7 | 55.83 | 8.2 | QPYGVYTW (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 97.8 | 0 | 46.9 | 8.2 | QPYGVYTW (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 97.8 | 0 | NaN | NaN | QPYGVYTW (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 97.8 | 0 |
| burpitide | NaN | NaN | NaN | NaN | Glyma.04G180400 | VPPIFY (3x), IPPFFSY (2x), VPPYFY (1x), VPPFFY (1x), VPIFY (2x), VPIFWY (1x) | NaN | NaN | NaN | NaN | VPPIFY (1x), VPPYFY (1x), VPIFWY (1x) | 3 | 3 | 10 | 6 | 10 | 3 | 74.9 | 74.9 | 24.8 | NaN | NaN | VPPIFY (1x), VPPYFY (1x), VPIFWY (1x) | 3 | 3 | 10 | 6 | 10 | 3 | 74.9 | 74.9 | 24.8 | NaN | NaN | VPPIFY (1x), VPPYFY (1x), VPIFWY (1x) | 3 | 3 | 10 | 6 | 10 | 3 | 74.9 | 74.9 | 24.8 |
| burpitide | Amaranthus hypochondriacus | SRR1598913 | 11.51 | 2x90bp | AH023187-RA | QPYTVGSW (7x), QPYTVFSW (5x) | 3.05 | 2.4 | 10.35 | 3.2 | QPYTVGSW (6x), QPYGVFSW (2x) | 8 | 2 | 12 | 2 | 12 | 8 | 67.3 | 67.3 | 32.7 | 10.7 | 3.2 | QPYTVGSW (6x), QPYGVFSW (2x) | 8 | 2 | 12 | 2 | 12 | 8 | 67.3 | 67.3 | 32.7 | 10.02 | 3.2 | QPYTVGSW (6x), QPYGVFSW (2x) | 8 | 2 | 12 | 2 | 12 | 8 | 67.3 | 67.3 | 32.7 |
| burpitide | Chenopodium quinoa | SRR5974433 | 19.34 | 2x101bp | CquBURP (XP\_021740703) | QPYTVWGW (5x), QPFTVVGW (1x), QPYTVMGW (2x) | 15.17 | 2.4 | 30.8 | 4.4 | QPYTVWGW (1x), QPYTVMGW (1x) | 2 | 2 | 8 | 3 | 8 | 2 | 48 | 48.9 | 49.8 | 38.18 | 4.4 | QPYTVWGW (1x), QPYTVMGW (1x) | 2 | 2 | 8 | 3 | 8 | 2 | 48 | 48.9 | 49.8 | 30.07 | 4.4 | QPYTVWGW (1x), QPYTVMGW (1x) | 2 | 2 | 8 | 3 | 8 | 2 | 48 | 48.9 | 49.8 |
| burpitide | Coffea arabica | SRR1777904 | 3.38 | 2x100bp | ArbA2 (XP\_027066141) | FLWGY (3x) | 5.56 | 0.71 | 7.17 | 1 | FLWGY (1x) | 1 | 1 | 3 | 1 | 3 | 1 | 75.4 | 77.5 | 14.4 | 9.35 | 1 | FLWGY (1x) | 1 | 1 | 3 | 1 | 3 | 1 | 75.4 | 77.5 | 14.4 | 6.38 | 1 | FLWGY (1x) | 1 | 1 | 3 | 1 | 3 | 1 | 75.4 | 77.5 | 14.4 |
| cyclotide | Oldenlandia affinis | SRR7440026 | 80.02 | 2x100bp | Oak1 (AAL05477) | GLPVCGETCVGGTCNTPGCTCSWPVCTRN (1x) | 14.42 | 2.6 | 77.4 | 18 | GLPVCGETCVGGTCNTPGCTCSWPVCTRN (1x) | 1 | 1 | 1 | 1 | 0 | 1 | 100 | 98.4 | 0 | 80.77 | 18 | GLPVCGETCVGGTCNTPGCTCSWPVCTRN (1x) | 1 | 1 | 1 | 1 | 1 | 1 | 100 | 98.4 | 0 | 99.85 | 18 | GLPVCGETCVGGTCNTPGCTCSWPVCTRN (1x) | 1 | 1 | 1 | 1 | 1 | 1 | 100 | 98.4 | 0 |
| cyclotide | NaN | NaN | NaN | NaN | Oak2 (AAL05478) | GLPTCGETCFGGTCNTPGCSCSSWPICTRN (1x), GLPTCGETCFGGTCNTPGCTCDPWPICTRD (1x) | NaN | NaN | NaN | NaN | GLPTCGETCFGGTCNTPGCTCDPWPICTRD (1x) | 1 | 1 | 2 | 2 | 2 | 1 | 84.2 | 86.7 | 10.8 | NaN | NaN | GLPTCGETCFGGTCNTPGCTCDPWPICTRD (1x) | 1 | 1 | 2 | 2 | 2 | 1 | 84.2 | 86.7 | 10.8 | NaN | NaN | GLPTCGETCFGGTCNTPGCTCDPWPICTRD (1x) | 1 | 1 | 2 | 2 | 2 | 1 | 84.2 | 86.7 | 10.8 |
| cyclotide | NaN | NaN | NaN | NaN | Oak3 (AAL05479) | GLPVCGETCTLGTCYTQGCTCSWPICKRN (1x) | NaN | NaN | NaN | NaN | GLPVCGETCTLGTCYTQGCTCSWPICKRN (1x) | 1 | 1 | 1 | 1 | 0 | 1 | 100 | 100 | 0 | NaN | NaN | GLPVCGETCTLGTCYTQGCTCSWPICKRN (1x) | 1 | 1 | 1 | 1 | 0 | 1 | 100 | 100 | 0 | NaN | NaN | GLPVCGETCTLGTCYTQGCTCSWPICKRN (1x) | 1 | 1 | 1 | 1 | 0 | 1 | 100 | 100 | 0 |
| cyclotide | NaN | NaN | NaN | NaN | Oak4 (AAL05480) | GLPVCGETCFGGTCNTPGCSCTWPICTRD (3x) | NaN | NaN | NaN | NaN | GLPVCGETCFGGTCNTPGCSCTWPICTRD (1x) | 1 | 1 | 3 | 1 | 3 | 1 | 68.6 | 68.6 | 31.4 | NaN | NaN | GLPVCGETCFGGTCNTPGCSCTWPICTRD (1x) | 1 | 1 | 3 | 1 | 3 | 1 | 68.6 | 68.6 | 31.4 | NaN | NaN | GLPVCGETCFGGTCNTPGCSCTWPICTRD (1x) | 1 | 1 | 3 | 1 | 3 | 1 | 68.6 | 68.6 | 31.4 |
| cyclotide | Momordica cochinchinensis | SRR8857716 | 33 | 2x100bp | TIPTOP1 (AEK70372) | GGVCPKILKKCRRDSDCPGACICRGNGYCGSGSD (3x), GGVCPKILQRCRRDSDCPGACICRGNGYCGSGSD (1x) | 6.93 | 2.4 | 26.7 | 7.7 | GGVCPKILKKCRRDSDCPGACICRGNGYCGSGSD (1x) | 1 | 1 | 4 | 2 | 4 | 1 | 31.7 | 31.7 | 68 | 26.4 | 7.7 | GGVCPKILKKCRRDSDCPGACICRGNGYCGSGSD (1x) | 1 | 1 | 4 | 2 | 4 | 1 | 31.7 | 31.7 | 68 | 26.43 | 7.7 | GGVCPKILKKCRRDSDCPGACICRGNGYCGSGSD (1x) | 1 | 1 | 4 | 2 | 4 | 1 | 31.7 | 31.7 | 68 |
| cyclotide | NaN | NaN | NaN | NaN | TIPTOP2 (AEK70373) | GGVCPKILKKCRRDSDCPGACICRGNGYCGSGSD (2x), GGACPRILKKCRRDSDCPGACVCQGNGYCGSGSD (1x), GGVCPKILQRCRRDSDCPGACICRGNGYCGSGSD (1x) | NaN | NaN | NaN | NaN | GGVCPKILKKCRRDSDCPGACICRGNGYCGSGSD (1x) | 1 | 1 | 4 | 3 | 4 | 1 | 26.6 | 26.6 | 73.1 | NaN | NaN | GGVCPKILKKCRRDSDCPGACICRGNGYCGSGSD (1x) | 1 | 1 | 4 | 3 | 4 | 1 | 26.6 | 26.6 | 73.1 | NaN | NaN | GGVCPKILKKCRRDSDCPGACICRGNGYCGSGSD (1x) | 1 | 1 | 4 | 3 | 4 | 1 | 26.6 | 26.6 | 73.1 |
| cyclotide | NaN | NaN | NaN | NaN | TIPTOP3 (AEK70374) | GGVCPKILKKCRRDSDCPGACICRGNGYCGSGSD (4x), GGVCPKILKKCRRDSDCPGACVCKGNGYCGSGSD (1x), GGGVYDEKQRACPRILKKCRRDSDCPGECICQGNGYCG (1x) | NaN | NaN | NaN | NaN | GGVCPKILKKCRRDSDCPGACICRGNGYCGSGSD (1x) | 1 | 1 | 6 | 3 | 6 | 1 | 20.6 | 20.6 | 79.4 | NaN | NaN | GGVCPKILKKCRRDSDCPGACICRGNGYCGSGSD (1x) | 1 | 1 | 6 | 3 | 6 | 1 | 20.6 | 20.6 | 79.4 | NaN | NaN | GGVCPKILKKCRRDSDCPGACICRGNGYCGSGSD (1x) | 1 | 1 | 6 | 3 | 6 | 1 | 20.6 | 20.6 | 79.4 |
| cyclotide | Clitoria ternatea | SRR2063750 | 11.27 | 2x150bp | CterM precursor (AEB92229) | GGLPTCGETCTLGTCYVPDCSCSWPICMKN (1x) | 18.6 | 2.4 | 31.15 | 5.4 | GGLPTCGETCTLGTCYVPDCSCSWPICMKN (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 100 | 0 | 31.87 | 5.4 | GGLPTCGETCTLGTCYVPDCSCSWPICMKN (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 100 | 0 | 27.4 | 5.4 | GGLPTCGETCTLGTCYVPDCSCSWPICMKN (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 100 | 0 |
| PawS-derived RiPP | Helianthus annus | SRR7691057 | 17.02 | 2x151bp | PawS1 (ACT34883) | GRCTKSIPPICFPD (1x) | 27.95 | 2.7 | 16.98 | 5.3 | GRCTKSIPPICFPD (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 99.3 | 98 | 0 | 17.37 | 5.3 | GRCTKSIPPICFPD (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 99.3 | 98 | 0 | 19.6 | 5.3 | GRCTKSIPPICFPD (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 99.3 | 98 | 0 |
| PawS-derived RiPP | NaN | NaN | NaN | NaN | PawS2 (ACS74804) | GCIEGSPVCFPD (1x) | NaN | NaN | NaN | NaN | GCIEGSPVCFPD (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 100 | 0 | NaN | NaN | GCIEGSPVCFPD (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 100 | 0 | NaN | NaN | GCIEGSPVCFPD (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 100 | 0 |
| cysteine-rich peptide | Triticum aestivum | SRR9593828 | 24.34 | 2x149bp | Defensin-like protein 1 (XP\_044389906) | KICRRRSAGFKGPCMSNKNCAQVCQQEGWGGGNCDGPFRRCKCIRQC (1x) | 38.32 | 2.7 | 138.63 | 7.6 | KICRRRSAGFKGPCMSNKNCAQVCQQEGWGGGNCDGPFRRCKCIRQC (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 100 | 0 | 151.23 | 7.6 | KICRRRSAGFKGPCMSNKNCAQVCQQEGWGGGNCDGPFRRCKCIRQC (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 100 | 0 | 198.03 | 7.6 | KICRRRSAGFKGPCMSNKNCAQVCQQEGWGGGNCDGPFRRCKCIRQC (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 100 | 0 |
| linear RiPP | Nicotiana tabacum | SRR8934908 | 19.57 | 2x150bp | proTOBSYS-A (AAK52096) | NRKPLSPPSPKPADGQRP (1x) | 15.37 | 2.7 | 54.53 | 6 | NRKPLSPPSPKPADGHRP (1x) | 1 | 0 | 1 | 1 | 0 | 0 | 88.5 | 91.5 | 0 | 67.22 | 6 | NRKPLSPPSPKPADGHRP (1x) | 1 | 0 | 1 | 1 | 0 | 0 | 88.5 | 91.5 | 0 | 62.13 | 6 | NRKPLSPPSPKPADGHRP (1x) | 1 | 0 | 1 | 1 | 0 | 0 | 88.5 | 91.5 | 0 |
| linear RiPP | Asparagus officinalis | SRR8741629 | 17.94 | 2x150bp | Phytosulfokine precursor protein (PSK) (Q9FS10) | YIYTQ (1x) | 21.7 | 2.7 | 53.07 | 5.6 | YIYTQ (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 98.7 | 98.7 | 0 | 52.05 | 5.6 | YIYTQ (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 98.7 | 98.7 | 0 | 55.37 | 5.6 | YIYTQ (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 98.7 | 98.7 | 0 |
| cysteine-rich peptide | Havea brasiliensis | SRR8371777 | 43.51 | 2x75bp | Hevein precursor (AAA33357) | EQCGRQAGGKLCPNNLCCSQWGWCGSTDEYCSPDHNCQSNCKD (1x) | 12.32 | 2.6 | 34.47 | 12 | EQCGRQAGGKLCPNNLCCSQWGWCGSTDEYCSPDHNCQSNCKD (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 99 | 98.5 | 0 | 36.77 | 12 | EQCGRQAGGKLCPNNLCCSQWGWCGSTDEYCSPDHNCQSNCKD (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 99 | 98.5 | 0 | 31.52 | 12 | EQCGRQAGGKLCPNNLCCSQWGWCGSTDEYCSPDHNCQSNCKD (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 99 | 98.5 | 0 |
| cysteine-rich peptide | Eucommia ulmoides | SRR7829611 | 17.39 | 2x125bp | EAFP1 precursor (WED30098) | QTCASRCPRPCNAGLCCSIYGYCGSGNAYCGAGNCRCQCRG (1x) | 16.08 | 2.6 | 31.52 | 5.2 | QTCASRCPRPCNAGLCCSIYGYCGSGAAYCGAGNCRCQCRG (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 99 | 98.7 | 0 | 30.95 | 5.2 | QTCASRCPRPCNAGLCCSIYGYCGSGAAYCGAGNCRCQCRG (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 99 | 98.7 | 0 | 29.28 | 5.2 | QTCASRCPRPCNAGLCCSIYGYCGSGAAYCGAGNCRCQCRG (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 99 | 98.7 | 0 |
| cysteine-rich peptide | Jasminum sambac | SRR1793303 | 10.9 | 2x101bp | Jasminitide S1 precursor (ALO52196) | QLCLQCRSNSDCNIIWRICRDGCCNVI (1x) | 8.71 | 2.5 | 12.25 | 3 | QLCLQCRSDDDCNIIWRICRYGCCNVI (1x) | 1 | 0 | 1 | 1 | 0 | 0 | 97 | 99 | 0 | 11.47 | 3 | QLCLQCRSDDDCNIIWRICRYGCCNVI (1x) | 1 | 0 | 1 | 1 | 0 | 0 | 97 | 99 | 0 | 13.52 | 3 | QLCLQCRSDDDCNIIWRICRYGCCNVI (1x) | 1 | 0 | 1 | 1 | 0 | 0 | 97 | 99 | 0 |
| orbitide | Senecio pinnatifolius var. maritimus | SRR5237253 | 26.9 | 2x101bp | PawL1b (ARD06067) | FFDAAKID (1x) | 5.68 | 2.6 | 17.55 | 7.5 | FFDAAKID (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 98.8 | 98.8 | 0 | 18.45 | 7.5 | FFDAAKID (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 98.8 | 98.8 | 0 | 20.72 | 7.5 | FFDAAKID (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 98.8 | 98.8 | 0 |
| orbitide | Linum usitatissimum | SRR16573723 | 20.03 | 2x147bp | Linusorb A1-A3 precursor protein (FAA04139) | MLMPFFWI (3x), MLLPFFWI (1x), MLMPFFWV (1x) | 3.7 | 2.6 | 43.5 | 6.2 | MLMPFFWI (3x), MLLPFFWI (1x), MLMPFFWV (1x) | 5 | 3 | 5 | 3 | 5 | 5 | 100 | 100 | 0 | 41.1 | 6.2 | MLMPFFWI (3x), MLLPFFWI (1x), MLMPFFWV (1x) | 5 | 3 | 5 | 3 | 5 | 5 | 100 | 100 | 0 | 38.7 | 6.2 | MLMPFFWI (3x), MLLPFFWI (1x), MLMPFFWV (1x) | 5 | 3 | 5 | 3 | 5 | 5 | 100 | 100 | 0 |
| burpitide | Solanum tuberosum | SRR21350426 | 37.69 | 2x124bp | StuBURP (AYN06994) | QPYGVFAW (5x), QPYGVDGW (1x) | 54.45 | 2.8 | 55.57 | 11 | QPYGVFRW (2x) QPWGVFKW (1x),\nQPWGVGSW (3x)\nQPWGVGAW (1x) | 7 | 0 | 6 | 2 | 6 | 7 | 80.4 | 83.9 | 13.3 | 57.58 | 11 | QPYGVFRW (2x) QPWGVFKW (1x),\nQPWGVGSW (3x)\nQPWGVGAW (1x) | 7 | 0 | 6 | 2 | 6 | 7 | 80.4 | 83.9 | 13.3 | 68.9 | 11 | QPYGVFRW (2x) QPWGVFKW (1x),\nQPWGVGSW (3x)\nQPWGVGAW (1x) | 7 | 0 | 6 | 2 | 6 | 7 | 80.4 | 83.9 | 13.3 |
| cysteine-rich peptide | NaN | NaN | NaN | NaN | Metallocarboxypeptidase\ninhibitor IIa precursor (NP\_001275048) | QQHADPICNKPCKTHDDCSGAWFCQACWNSARTCGPYVG (1x) | NaN | NaN | NaN | NaN | QQHADPICNKPCKTHDDCSGAWFCQACWNSARTCGPYVG (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 91.2 | 91.2 | 8.8 | NaN | NaN | QQHADPICNKPCKTHDDCSGAWFCQACWNSARTCGPYVG (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 91.2 | 91.2 | 8.8 | NaN | NaN | QQHADPICNKPCKTHDDCSGAWFCQACWNSARTCGPYVG (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 91.2 | 91.2 | 8.8 |
| cysteine-rich peptide | Panax ginseng | SRR25992354 | 21.32 | 2x150bp | Ginsentide precursor (AAX40471.1) | CKSGGAWCGFDPHGCCGNCGCLVGFCYGTGC (1x) | 4.7 | 2.5 | 42.43 | 5.7 | CKSSGAWCGFDPHGCCGNCGCLVGFCYGTDC (1x) | 1 | 0 | 1 | 1 | 0 | 0 | 79.8 | 79.8 | 18.5 | 43.13 | 5.7 | CKSSGAWCGFDPHGCCGNCGCLVGFCYGTDC (1x) | 1 | 0 | 1 | 1 | 0 | 0 | 79.8 | 79.8 | 18.5 | 44.88 | 5.7 | CKSSGAWCGFDPHGCCGNCGCLVGFCYGTDC (1x) | 1 | 0 | 1 | 1 | 0 | 0 | 79.8 | 79.8 | 18.5 |
| cysteine-rich peptide | Impatiens balsamina | ERR3487357 | 7.2 | 2x90bp | IbAMP precursor (O24006) | QWGRRCCGWGPGRRYCRRW (1x), QWGRRCCGWGPGRRYCVRWC (2x), QYRHRCCAWGPGRKYCKRWC, QYGRRCCNWGPGRRYCKRWC | 7.95 | 2 | 6.93 | 1.6 | QYGRRCCSWDPYRRYCRRWC (1x), QWGRRCCGWGPGRRYCRRWC (2x) | 3 | 0 | 5 | 4 | 5 | 3 | 58.9 | 55.3 | 35.7 | 6.88 | 1.6 | QYGRRCCSWDPYRRYCRRWC (1x), QWGRRCCGWGPGRRYCRRWC (2x) | 3 | 0 | 5 | 4 | 5 | 3 | 58.9 | 55.3 | 35.7 | 6.98 | 1.6 | QYGRRCCSWDPYRRYCRRWC (1x), QWGRRCCGWGPGRRYCRRWC (2x) | 3 | 0 | 5 | 4 | 5 | 3 | 58.9 | 55.3 | 35.7 |
| cysteine-rich peptide | Triticum kiharae | SRR7511484 | 23.81 | 2x62bp | WAMP-1a precursor (P85966) | AQRCGDQARGAKCPNCLCCGKYGFCGSGDAYCGAGSCQSQCRGCR (1x) | 33 | 2.5 | 29.85 | 6 | AQRCGDQARGAKCPNCLCCGKYGFCGSGDAYCGKGSCQSQCRGCR (1x) | 1 | 0 | 1 | 1 | 0 | 0 | 87.1 | 87.1 | 10.3 | 33.57 | 6 | AQRCGDQARGAKCPNCLCCGKYGFCGSGDAYCGKGSCQSQCRGCR (1x) | 1 | 0 | 1 | 1 | 0 | 0 | 87.1 | 87.1 | 10.3 | 30.92 | 6 | AQRCGDQARGAKCPNCLCCGKYGFCGSGDAYCGKGSCQSQCRGCR (1x) | 1 | 0 | 1 | 1 | 0 | 0 | 87.1 | 87.1 | 10.3 |
| cysteine-rich peptide | Petunia x hybrida | SRR6394744 | 38.15 | 2x150bp | Petunia defensin precursor (ADV59771) | ATCKAECPTWDSVCINKKPCVACCKKAKFSDGHCSKILRRCLCTKEC (1x) | 34.23 | 2.5 | 38.05 | 9.4 | n/d | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 38.1 | 9.4 | n/d | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 56.23 | 9.4 | n/d | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| cysteine-rich peptide | Crambe hispanica subsp. | SRR11638385 | 7.43 | 2x244bp | Crambin precursor (S52550) | TTCCPSIVARSNFNVCRLPGTAEPICATDTGCIIIPGATCPGDYPN (1x) | 9.7 | 2.3 | 32.33 | 2.6 | TTCCPSIVTRSRYDVCRLPGTSEAICAAYTGCIIIPGAACPADYPN | 1 | 0 | 1 | 1 | 0 | 0 | 86.6 | 79.9 | 6.7 | 35.13 | 2.6 | TTCCPSIVTRSRYDVCRLPGTSEAICAAYTGCIIIPGAACPADYPN | 1 | 0 | 1 | 1 | 0 | 0 | 86.6 | 79.9 | 6.7 | 40.9 | 2.6 | TTCCPSIVTRSRYDVCRLPGTSEAICAAYTGCIIIPGAACPADYPN | 1 | 0 | 1 | 1 | 0 | 0 | 86.6 | 79.9 | 6.7 |
| NaN | Potentilla anserina | ERR9435015 | 14.47 | 2x151bp | Potentide pA1 precursor (XP\_050382506) | GFIPYPECIEKCDECVICTKIYPIEAALCYCGKKT, GFIPYPECIEKCDECVICTLPYPIEKALCYCGMNT, GTIPYTECIKTCDECFCTQKWPPESNVCICINH, QKIPFLLCDRVCDRCICDRRVPEHAECTCAQW | 22.13 | 2.7 | 45.95 | 4.5 | GTIPYTECIKTCDECFCTRKWPPESNMCICINH | 1 | 1 | 4 | 4 | 4 | 1 | 35 | 36.4 | 62.6 | 51.65 | 4.5 | GTIPYTECIKTCDECFCTRKWPPESNMCICINH | 1 | 1 | 4 | 4 | 4 | 1 | 35 | 36.4 | 62.6 | 44.47 | 4.5 | GTIPYTECIKTCDECFCTRKWPPESNMCICINH | 1 | 1 | 4 | 4 | 4 | 1 | 35 | 36.4 | 62.6 |

## Trinity
| Unnamed: 0 | Unnamed: 1 | Unnamed: 2 | Unnamed: 3 | Unnamed: 4 | Unnamed: 5 | Unnamed: 6 | Unnamed: 7 | Unnamed: 8 | Assembly 1 | Unnamed: 10 | Unnamed: 11 | Unnamed: 12 | Unnamed: 13 | Unnamed: 14 | Unnamed: 15 | Unnamed: 16 | Unnamed: 17 | Unnamed: 18 | Unnamed: 19 | Unnamed: 20 | Assembly 2 | Unnamed: 22 | Unnamed: 23 | Unnamed: 24 | Unnamed: 25 | Unnamed: 26 | Unnamed: 27 | Unnamed: 28 | Unnamed: 29 | Unnamed: 30 | Unnamed: 31 | Unnamed: 32 | Assembly 3 | Unnamed: 34 | Unnamed: 35 | Unnamed: 36 | Unnamed: 37 | Unnamed: 38 | Unnamed: 39 | Unnamed: 40 | Unnamed: 41 | Unnamed: 42 | Unnamed: 43 | Unnamed: 44 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| RiPP | Plant | Dataset | Dataset size [GB] | Reads | Target precursor (GenBank ID) | Core peptides | Trimgalore - Walltime [min] | Trimgalore - Used memory [GB] | Wall time [min] | Used memory [GB] | BURP domain-assembled cores | Total detected cores | Detected unique correct cores | Total cores | Unique cores | Benchmark repeats | Assembled/detected repeats | Similarity [%] | Identity [%] | Gaps [%] | Wall time [min] | Used memory [GB] | BURP domain-assembled cores | Total detected cores | Detected unique correct cores | Total cores | Unique cores | Benchmark repeats | Assembled/detected repeats | Similarity [%] | Identity [%] | Gaps [%] | Wall time [min] | Used memory [GB] | BURP domain-assembled cores | Total detected cores | Detected unique correct cores | Total cores | Unique cores | Benchmark repeats | Assembled/detected repeats | Similarity [%] | Identity [%] | Gaps [%] |
| burpitide | Lycium barbarum | SRR6896657 | 6.02 | 2x100bp | LbaLycA (AYN06992) | QPYGVGSW (1x), QPWGVGSW (8x), QPYGVGIW (3x) | 22.18 | 2.3 | 484.72 | 21 | QPYGVGSW (1x), QPWGVGSW (4x), QPYGVGIW (1x) | 6 | 3 | 12 | 3 | 12 | 6 | 63.4 | 63 | 35.4 | 431.6 | 20 | QPYGVGSW (1x), QPWGVGSW (4x), QPYGVGIW (1x) | 6 | 3 | 12 | 3 | 12 | 6 | 64.3 | 64.1 | 35.4 | 481.8 | 20 | QPYGVGSW (1x), QPWGVGSW (4x), QPYGVGIW (1x) | 6 | 3 | 12 | 3 | 12 | 6 | 64.3 | 64.1 | 35.4 |
| burpitide | Cercis canadensis | ERR706845 | 4.53 | 2x90bp | CcaBURP1 (QXY82432) | QILFW (17x) | 1.02 | 0.54 | 359.95 | 8.6 | QILFW (1x) | 1 | 1 | 17 | 1 | 17 | 1 | 39.7 | 39.5 | 60 | 520.6 | 8.6 | QILFW (1x) | 1 | 1 | 17 | 1 | 17 | 1 | 39.7 | 39.5 | 60 | 398.73 | 8.6 | QILFW (1x) | 1 | 1 | 17 | 1 | 17 | 1 | 39.7 | 39.5 | 60 |
| burpitide | NaN | NaN | NaN | NaN | CcaBURP2 (QXY82433) | QLLVW (5x), QLKVW (3x) | NaN | NaN | NaN | NaN | QLLVW (1x) | 1 | 1 | 8 | 2 | 8 | 1 | 53.5 | 53.5 | 46.5 | NaN | NaN | QLLVW (1x) | 1 | 1 | 8 | 2 | 8 | 1 | 53.5 | 53.5 | 46.5 | NaN | NaN | QLLVW (1x) | 1 | 1 | 8 | 2 | 8 | 1 | 53.5 | 53.5 | 46.5 |
| burpitide | Selaginella kraussiana | ERR2040879 | 7.31 | 2x90bp | SkrBURP (QXY82431) | ILLYPSY (1x), VLFYRSY (1x), VLFYPSY (5x) | 7.86 | 1.9 | 334.52 | 15 | ILLYPSY (2x), FLLYPSY (1x) | 3 | 1 | 7 | 3 | 7 | 3 | 69.1 | 69 | 30.3 | 295.7 | 14 | ILLYPSY (2x), FLLYPSY (1x) | 3 | 1 | 7 | 3 | 7 | 3 | 69.1 | 69 | 30.3 | 342.4 | 14 | ILLYPSY (2x), FLLYPSY (1x) | 3 | 1 | 7 | 3 | 7 | 3 | 69.1 | 69 | 30.3 |
| burpitide | Kerria japonica | ERR2040423 | 6.89 | 2x90bp | KjaBURP (QIG55799) | QLLVWRGH (3x), QLLVWRAH (1x) | 4.25 | 2 | 445.18 | 13 | QLLVWRGH (2x), QLLVWRAH (1x) | 3 | 2 | 4 | 2 | 4 | 3 | 94.7 | 94.7 | 5.3 | 410.8 | 14 | QLLVWRGH (2x), QLLVWRAH (1x) | 3 | 2 | 4 | 2 | 4 | 3 | 94.7 | 94.7 | 5.3 | 393.1 | 13 | QLLVWRGH (2x), QLLVWRAH (1x) | 3 | 2 | 4 | 2 | 4 | 3 | 94.7 | 94.7 | 5.3 |
| burpitide | Glycine max | SRR24423494 | 26.86 | 2x150bp | Sali3-2 (AAB66369) | QPYGVYTW (1x) | 23.93 | 2.7 | 944.52 | 32 | QPYGVYTW (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 97.8 | 0 | 1024 | 32 | QPYGVYTW (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 97.8 | 0 | 1080.5 | 32 | QPYGVYTW (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 97.8 | 0 |
| burpitide | NaN | NaN | NaN | NaN | Glyma.04G180400 | VPPIFY (3x), IPPFFSY (2x), VPPYFY (1x), VPPFFY (1x), VPIFY (2x), VPIFWY (1x) | NaN | NaN | NaN | NaN | VPPIFY (4x), VPIFWY (1x) | 4 | 2 | 10 | 6 | 10 | 4 | 81.2 | 81.2 | 18.4 | NaN | NaN | VPPIFY (4x), VPIFWY (1x) | 4 | 2 | 10 | 6 | 10 | 4 | 81.2 | 81.2 | 18.4 | NaN | NaN | VPPIFY (4x), VPIFWY (1x) | 4 | 2 | 10 | 6 | 10 | 4 | 81.2 | 81.2 | 18.4 |
| burpitide | Amaranthus hypochondriacus | SRR1598913 | 11.51 | 2x90bp | AH023187-RA | QPYTVGSW (7x), QPYTVFSW (5x) | 3.05 | 2.4 | 581.43 | 32 | QPYTVGSW (1x) | 1 | 1 | 12 | 2 | 12 | 1 | 34.1 | 34.1 | 65.9 | 576.4 | 32 | QPYTVGSW (1x) | 1 | 1 | 12 | 2 | 12 | 1 | 34.1 | 34.1 | 65.9 | 494.8 | 32 | QPYTVGSW (1x) | 1 | 1 | 12 | 2 | 12 | 1 | 34.1 | 34.1 | 65.9 |
| burpitide | Chenopodium quinoa | SRR5974433 | 19.34 | 2x101bp | CquBURP (XP\_021740703) | QPYTVWGW (5x), QPFTVVGW (1x), QPYTVMGW (2x) | 15.17 | 2.4 | 646.07 | 32 | QPYTVMGW (2x), QPYTVMAW (1x) | 3 | 1 | 8 | 3 | 8 | 1 | 42.3 | 45.1 | 51.9 | 638.1 | 32 | QPYTVMGW (2x), QPYTVMAW (1x) | 3 | 1 | 8 | 3 | 8 | 1 | 38.8 | 41.4 | 55.6 | 629.8 | 32 | QPYTVMGW (2x), QPYTVMAW (1x) | 3 | 1 | 8 | 3 | 8 | 1 | 38.8 | 41.4 | 55.6 |
| burpitide | Coffea arabica | SRR1777904 | 3.38 | 2x100bp | ArbA2 (XP\_027066141) | FLWGY (3x) | 5.56 | 0.71 | 333.4 | 7.6 | FLWGY (3x) | 3 | 1 | 3 | 1 | 3 | 3 | 84.7 | 84 | 12.9 | 428.15 | 7.7 | FLWGY (3x) | 3 | 1 | 3 | 1 | 3 | 3 | 84.7 | 84 | 12.9 | 395.52 | 7.8 | FLWGY (3x) | 3 | 1 | 3 | 1 | 3 | 3 | 84.7 | 84 | 12.9 |
| cyclotide | Oldenlandia affinis | SRR7440026 | 80.02 | 2x100bp | Oak1 (AAL05477) | GLPVCGETCVGGTCNTPGCTCSWPVCTRN (1x) | 14.42 | 2.6 | 1350.93 | 48 | GLPVCGETCVGGTCNTPGCTCSWPVCTRN (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 93.5 | 92.7 | 5.6 | 1348.22 | 48 | GLPVCGETCVGGTCNTPGCTCSWPVCTRN (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 100 | 0 | 1417.07 | 48 | GLPVCGETCVGGTCNTPGCTCSWPVCTRN (1x) | 1 | 1 | 1 | 1 | NaN | NaN | 100 | 100 | 0 |
| cyclotide | NaN | NaN | NaN | NaN | Oak2 (AAL05478) | GLPTCGETCFGGTCNTPGCSCSSWPICTRN (1x), GLPTCGETCFGGTCNTPGCTCDPWPICTRD (1x) | NaN | NaN | NaN | NaN | GLPTCGETCFGGTCNTPGCSCSSWPICTRN (1x), GLPTCGETCFGGTCNTPGCTCDPWPICTRD (1x) | 2 | 2 | 2 | 2 | 2 | 2 | 66.3 | 66.3 | 29.7 | NaN | NaN | GLPTCGETCFGGTCNTPGCSCSSWPICTRN (1x), GLPTCGETCFGGTCNTPGCTCDPWPICTRD (1x) | 2 | 2 | 2 | 2 | 2 | 1 | 66.3 | 66.3 | 29.7 | NaN | NaN | GLPTCGETCFGGTCNTPGCSCSSWPICTRN (1x), GLPTCGETCFGGTCNTPGCTCDPWPICTRD (1x) | 2 | 2 | 2 | 2 | 2 | 1 | 66.3 | 66.3 | 29.7 |
| cyclotide | NaN | NaN | NaN | NaN | Oak3 (AAL05479) | GLPVCGETCTLGTCYTQGCTCSWPICKRN (1x) | NaN | NaN | NaN | NaN | GLPVCGETCTLGTCYTQGCTCSWPICKRN (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 70.3 | 70.3 | 29.7 | NaN | NaN | GLPVCGETCTLGTCYTQGCTCSWPICKRN (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 70.3 | 70.3 | 29.7 | NaN | NaN | GLPVCGETCTLGTCYTQGCTCSWPICKRN (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 70.3 | 70.3 | 29.7 |
| cyclotide | NaN | NaN | NaN | NaN | Oak4 (AAL05480) | GLPVCGETCFGGTCNTPGCSCTWPICTRD (3x) | NaN | NaN | NaN | NaN | GLPVCGETCFGGTCNTPGCSCTWPICTRD (2x) | 2 | 1 | 3 | 1 | 3 | 2 | 80 | 80 | 19.5 | NaN | NaN | GLPVCGETCFGGTCNTPGCSCTWPICTRD (2x) | 2 | 1 | 3 | 1 | 3 | 2 | 80 | 80 | 19.5 | NaN | NaN | GLPVCGETCFGGTCNTPGCSCTWPICTRD (2x) | 2 | 1 | 3 | 1 | 3 | 2 | 80 | 80 | 19.5 |
| cyclotide | Momordica cochinchinensis | SRR8857716 | 33 | 2x100bp | TIPTOP1 (AEK70372) | GGVCPKILKKCRRDSDCPGACICRGNGYCGSGSD (3x), GGVCPKILQRCRRDSDCPGACICRGNGYCGSGSD (1x) | 6.93 | 2.4 | 613.12 | 32 | NaN | 0 | 0 | 4 | 2 | 4 | 0 | 0 | 0 | 0 | 581.33 | 0 | NaN | 0 | 0 | 4 | 2 | 4 | 0 | 0 | 0 | 0 | 773.68 | 32 | NaN | 0 | 0 | 4 | 2 | 4 | 0 | 0 | 0 | 0 |
| cyclotide | NaN | NaN | NaN | NaN | TIPTOP2 (AEK70373) | GGVCPKILKKCRRDSDCPGACICRGNGYCGSGSD (2x), GGACPRILKKCRRDSDCPGACVCQGNGYCGSGSD (1x), GGVCPKILQRCRRDSDCPGACICRGNGYCGSGSD (1x) | NaN | NaN | NaN | NaN | NaN | 0 | 0 | 4 | 3 | 4 | 0 | 0 | 0 | 0 | NaN | NaN | NaN | 0 | 0 | 4 | 3 | 4 | 0 | 0 | 0 | 0 | NaN | NaN | NaN | 0 | 0 | 4 | 3 | 4 | 0 | 0 | 0 | 0 |
| cyclotide | NaN | NaN | NaN | NaN | TIPTOP3 (AEK70374) | GGVCPKILKKCRRDSDCPGACICRGNGYCGSGSD (4x), GGVCPKILKKCRRDSDCPGACVCKGNGYCGSGSD (1x), GGGVYDEKQRACPRILKKCRRDSDCPGECICQGNGYCG (1x) | NaN | NaN | NaN | NaN | NaN | 0 | 0 | 6 | 3 | 6 | 0 | 0 | 0 | 0 | NaN | NaN | NaN | 0 | 0 | 6 | 3 | 6 | 0 | 0 | 0 | 0 | NaN | NaN | NaN | 0 | 0 | 6 | 3 | 6 | 0 | 0 | 0 | 0 |
| cyclotide | Clitoria ternatea | SRR2063750 | 11.27 | 2x150bp | CterM precursor (AEB92229) | GGLPTCGETCTLGTCYVPDCSCSWPICMKN (1x) | 18.6 | 2.4 | 994.25 | 32 | GGLPTCGETCTLGTCYVPDCSCSWPICMKN (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 100 | 0 | 1339.78 | 32 | GGLPTCGETCTLGTCYVPDCSCSWPICMKN (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 100 | 0 | 1217.6 | 32 | GGLPTCGETCTLGTCYVPDCSCSWPICMKN (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 100 | 0 |
| PawS-derived RiPP | Helianthus annus | SRR7691057 | 17.02 | 2x151bp | PawS1 (ACT34883) | GRCTKSIPPICFPD (1x) | 27.95 | 2.7 | 381.28 | 32 | GRCTKSIPPICFPD (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 79.5 | 78.1 | 19.9 | 496.17 | 32 | GRCTKSIPPICFPD (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 79.5 | 78.1 | 19.9 | 492.1 | 32 | GRCTKSIPPICFPD (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 79.5 | 78.1 | 19.9 |
| PawS-derived RiPP | NaN | NaN | NaN | NaN | PawS2 (ACS74804) | GCIEGSPVCFPD (1x) | NaN | NaN | NaN | NaN | GCIEGSPVCFPD (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 100 | 0 | NaN | NaN | GCIEGSPVCFPD (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 100 | 0 | NaN | NaN | GCIEGSPVCFPD (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 100 | 0 |
| cysteine-rich peptide | Triticum aestivum | SRR9593828 | 24.34 | 2x149bp | Defensin-like protein 1 (XP\_044389906) | KICRRRSAGFKGPCMSNKNCAQVCQQEGWGGGNCDGPFRRCKCIRQC (1x) | 38.32 | 2.7 | 2109.95 | 40 | KICRRRSAGFKGPCMSNKNCAQVCQQEGWGGGNCDGPFRRCKCIRQC (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 100 | 0 | 1774.63 | 40 | KICRRRSAGFKGPCMSNKNCAQVCQQEGWGGGNCDGPFRRCKCIRQC (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 100 | 0 | 1509.95 | 40 | KICRRRSAGFKGPCMSNKNCAQVCQQEGWGGGNCDGPFRRCKCIRQC (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 100 | 0 |
| linear RiPP | Nicotiana tabacum | SRR8934908 | 19.57 | 2x150bp | proTOBSYS-A (AAK52096) | NRKPLSPPSPKPADGQRP (1x) | 15.37 | 2.7 | 1968.5 | 32 | NRKPLSPPSPKPADGQRP (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 99.4 | 0 | 1308.5 | 32 | NRKPLSPPSPKPADGQRP (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 99.4 | 0 | 1335.23 | 32 | NRKPLSPPSPKPADGQRP (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 99.4 | 0 |
| linear RiPP | Asparagus officinalis | SRR8741629 | 17.94 | 2x150bp | Phytosulfokine precursor protein (PSK) (Q9FS10) | YIYTQ (1x) | 21.7 | 2.7 | 900.43 | 32 | YIYTQ (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 98.7 | 98.7 | 0 | 944.32 | 32 | YIYTQ (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 98.7 | 98.7 | 0 | 788.97 | 32 | YIYTQ (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 98.7 | 98.7 | 0 |
| cysteine-rich peptide | Havea brasiliensis | SRR8371777 | 43.51 | 2x75bp | Hevein precursor (AAA33357) | EQCGRQAGGKLCPNNLCCSQWGWCGSTDEYCSPDHNCQSNCKD (1x) | 12.32 | 2.6 | 1084.33 | 41 | EQCGRQAGGKLCPNNLCCSQWGWCGSTDEYCSPDHNCQSNCKD (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 99 | 98.5 | 0 | 865.87 | 32 | EQCGRQAGGKLCPNNLCCSQWGWCGSTDEYCSPDHNCQSNCKD (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 99 | 98.5 | 0 | 790.63 | 40 | EQCGRQAGGKLCPNNLCCSQWGWCGSTDEYCSPDHNCQSNCKD (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 99 | 98.5 | 0 |
| cysteine-rich peptide | Eucommia ulmoides | SRR7829611 | 17.39 | 2x125bp | EAFP1 precursor (WED30098) | QTCASRCPRPCNAGLCCSIYGYCGSGNAYCGAGNCRCQCRG (1x) | 16.08 | 2.6 | 946.33 | 32 | QTCASRCPRPCNAGLCCSIYGYCGSGAAYCGAGNCRCQCRG (1x) | 1 | 0 | 1 | 1 | 0 | 0 | 73.6 | 73.6 | 25.4 | 956.72 | 32 | QTCASRCPRPCNAGLCCSIYGYCGSGAAYCGAGNCRCQCRG (1x) | 1 | 0 | 1 | 1 | 0 | 0 | 73.6 | 73.6 | 25.4 | 995.65 | 32 | QTCASRCPRPCNAGLCCSIYGYCGSGAAYCGAGNCRCQCRG (1x) | 1 | 0 | 1 | 1 | 0 | 0 | 73.6 | 73.6 | 25.4 |
| cysteine-rich peptide | Jasminum sambac | SRR1793303 | 10.9 | 2x101bp | Jasminitide S1 precursor (ALO52196) | QLCLQCRSNSDCNIIWRICRDGCCNVI (1x) | 8.71 | 2.5 | 552.97 | 25 | QLCLQCRSDDDCNIIWRICRYGCCNVI (1x) | 1 | 0 | 1 | 1 | 0 | 0 | 98 | 96 | 0 | 431.6 | 24 | QLCLQCRSDDDCNIIWRICRYGCCNVI (1x) | 1 | 0 | 1 | 1 | 0 | 0 | 98 | 96 | 0 | 456.08 | 25 | QLCLQCRSDDDCNIIWRICRYGCCNVI (1x) | 1 | 0 | 1 | 1 | 0 | 0 | 98 | 96 | 0 |
| orbitide | Senecio pinnatifolius var. maritimus | SRR5237253 | 26.9 | 2x101bp | PawL1b (ARD06067) | FFDAAKID (1x) | 5.68 | 2.6 | 820.67 | 32 | FFDAAKID (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 100 | 0 | 564.95 | 32 | FFDAAKID (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 99.4 | 99.4 | 0 | 565.23 | 32 | FFDAAKID (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 99.4 | 99.4 | 0 |
| orbitide | Linum usitatissimum | SRR16573723 | 20.03 | 2x147bp | Linusorb A1-A3 precursor protein (FAA04139) | MLMPFFWI (3x), MLLPFFWI (1x), MLMPFFWV (1x) | 3.7 | 2.6 | 598.7 | 32 | MLMPFFWI (2x), MLLPFFWI (1x), MLMPFFWV (1x) | 4 | 3 | 5 | 3 | 5 | 4 | 89 | 89 | 11 | 783.5 | 32 | MLMPFFWI (2x), MLLPFFWI (1x), MLMPFFWV (1x) | 4 | 3 | 5 | 3 | 5 | 4 | 89 | 89 | 11 | 748.02 | 32 | MLMPFFWI (2x), MLLPFFWI (1x), MLMPFFWV (1x) | 4 | 3 | 5 | 3 | 5 | 4 | 89 | 89 | 11 |
| burpitide | Solanum tuberosum | SRR21350426 | 37.69 | 2x124bp | StuBURP (AYN06994) | QPYGVFAW (5x), QPYGVDGW (1x) | 54.45 | 2.8 | 1145.58 | 32 | QPYGVFAW (4x), QPYTAFAW (1x), QPYGVDGW (1x) | 6 | 2 | 6 | 2 | 6 | 6 | 83.9 | 81.8 | 14.4 | 1145.6 | 32 | QPYGVFAW (4x), QPYTAFAW (1x), QPYGVDGW (1x) | 6 | 2 | 6 | 2 | 6 | 6 | 83.9 | 81.8 | 14.4 | 1010 | 32 | QPYGVFAW (4x), QPYTAFAW (1x), QPYGVDGW (1x) | 6 | 2 | 6 | 2 | 6 | 6 | 83.9 | 81.8 | 14.4 |
| cysteine-rich peptide | NaN | NaN | NaN | NaN | Metallocarboxypeptidase\ninhibitor IIa precursor (NP\_001275048) | QQHADPICNKPCKTHDDCSGAWFCQACWNSARTCGPYVG (1x) | NaN | NaN | NaN | NaN | QQHADPICNKPCKTHDDCSGAWFCQACWNSARTCGPYVG (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 100 | 0 | NaN | NaN | QQHADPICNKPCKTHDDCSGAWFCQACWNSARTCGPYVG (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 100 | 0 | NaN | NaN | QQHADPICNKPCKTHDDCSGAWFCQACWNSARTCGPYVG (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 100 | 100 | 0 |
| cysteine-rich peptide | Panax ginseng | SRR25992354 | 21.32 | 2x150bp | Ginsentide precursor (AAX40471.1) | CKSGGAWCGFDPHGCCGNCGCLVGFCYGTGC (1x) | 4.7 | 2.5 | 1011.13 | 32 | CKSGGAWCGFDPHGCCGNCGCLVGFCYGTGC (1x) | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1010.1 | 32 | CKSGGAWCGFDPHGCCGNCGCLVGFCYGTGC (1x) | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1059.5 | 32 | CKSGGAWCGFDPHGCCGNCGCLVGFCYGTGC (1x) | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| cysteine-rich peptide | Impatiens balsamina | ERR3487357 | 7.2 | 2x90bp | IbAMP precursor (O24006) | QWGRRCCGWGPGRRYCRRW (1x), QWGRRCCGWGPGRRYCVRWC (2x), QYRHRCCAWGPGRKYCKRWC, QYGRRCCNWGPGRRYCKRWC | 7.95 | 2 | 386.5 | 13 | QWGRRCCGWGPGRRYCVRWC (1x), QYGRRCCSWDPYRRYCRRWC (1x), QYGRRCCAWGPGRRYCRRWC (2x) | 4 | 0 | 5 | 4 | 5 | 4 | 56.2 | 52.6 | 36 | 543.5 | 14 | QWGRRCCGWGPGRRYCVRWC (1x), QYGRRCCSWDPYRRYCRRWC (1x), QYGRRCCAWGPGRRYCRRWC (2x) | 4 | 0 | 5 | 4 | 5 | 4 | 56.2 | 52.6 | 36 | 415.7 | 13 | QWGRRCCGWGPGRRYCVRWC (1x), QYGRRCCSWDPYRRYCRRWC (1x), QYGRRCCAWGPGRRYCRRWC (2x) | 4 | 0 | 5 | 4 | 5 | 4 | 56.2 | 52.6 | 36 |
| cysteine-rich peptide | Triticum kiharae | SRR7511484 | 23.81 | 2x62bp | WAMP-1a precursor (P85966) | AQRCGDQARGAKCPNCLCCGKYGFCGSGDAYCGAGSCQSQCRGCR (1x) | 33 | 2.5 | 906.72 | 32 | AQRCGDQARGAKCPNCLCCGKYGFCGSGDAYCGKGSCQSQCRGCR (1x) | 1 | 0 | 1 | 1 | 0 | 0 | 95.7 | 95.7 | 1.7 | 897.22 | 32 | AQRCGDQARGAKCPNCLCCGKYGFCGSGDAYCGKGSCQSQCRGCR (1x) | 1 | 0 | 1 | 1 | 0 | 0 | 95.7 | 95.7 | 1.7 | 1074.37 | 32 | AQRCGDQARGAKCPNCLCCGKYGFCGSGDAYCGKGSCQSQCRGCR (1x) | 1 | 0 | 1 | 1 | NaN | NaN | 95.7 | 95.7 | 1.7 |
| cysteine-rich peptide | Petunia x hybrida | SRR6394744 | 38.15 | 2x150bp | Petunia defensin precursor (ADV59771) | ATCKAECPTWDSVCINKKPCVACCKKAKFSDGHCSKILRRCLCTKEC (1x) | 34.23 | 2.5 | 877.17 | 32 | ATCKAECPTWDSVCINKKPCVACCKKAKFSDGHCSKILRRCLCTKEC (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 99 | 99 | 0 | 780.85 | 32 | ATCKAECPTWDSVCINKKPCVACCKKAKFSDGHCSKILRRCLCTKEC (1x) | 1 | 1 | 1 | 1 | 0 | 0 | 99 | 99 | 0 | 836.53 | 32 | ATCKAECPTWDSVCINKKPCVACCKKAKFSDGHCSKILRRCLCTKEC (1x) | 1 | 1 | 1 | 1 | NaN | NaN | 99 | 99 | 0 |
| cysteine-rich peptide | Crambe hispanica subsp. | SRR11638385 | 7.43 | 2x244bp | Crambin precursor (S52550) | TTCCPSIVARSNFNVCRLPGTAEPICATDTGCIIIPGATCPGDYPN (1x) | 9.7 | 2.3 | 542.2 | 20 | TTCCPSIVARSNFNVCRLPGTAEPICATDTGCIIIPGATCPGDYPN | 1 | 0 | 1 | 1 | 0 | 0 | 76.9 | 66.4 | 6.7 | 517.67 | 20 | TTCCPSIVTRSRYDVCRLPGTSEAICAAYTGCIIIPGAACPADYPN (1x) | 1 | 0 | 1 | 1 | 0 | 0 | 58.4 | 52.8 | 35.2 | 485.07 | 20 | KSCCPTITARNQYNICRIPGTPRSICARISGCIIQSDPTCPSDKPY | 1 | 0 | 1 | 1 | 0 | 0 | 76.1 | 66.4 | 6.7 |
| cysteine-rich peptide | Potentilla anserina | ERR9435015 | 14.47 | 2x151bp | Potentide pA1 precursor (XP\_050382506) | GFIPYPECIEKCDECVICTKIYPIEAALCYCGKKT, GFIPYPECIEKCDECVICTLPYPIEKALCYCGMNT, GTIPYTECIKTCDECFCTQKWPPESNVCICINH, QKIPFLLCDRVCDRCICDRRVPEHAECTCAQW | 22.13 | 2.7 | 667.73 | 32 | GFIPYPECIEKCDECVICTKIYPIEAALCYCGKKT, GFIPYPECIEKCDECVICTLPYPIEKALCYCGMNT, GTIPYTECIKTCDECFCTQKWPPESNVCICINH, QKIPFLLCDRVCDRCICDRRVPEHAECTCAQW | 4 | 3 | 4 | 4 | 4 | 4 | 99.6 | 99.3 | 0 | 696.98 | 32 | GFIPYPECIEKCDECVICTKIYPIEAALCYCGKKT, GFIPYPECIEKCDECVICTLPYPIEKALCYCGMNT, GTIPYTECIKTCDECFCTQKWPPESNVCICINH, QKIPFLLCDRVCDRCICDRRVPEHAECTCAQW | 4 | 3 | 4 | 4 | 4 | 4 | 99.6 | 99.3 | 0 | 693.45 | 32 | GFIPYPECIEKCDECVICTKIYPIEAALCYCGKKT, GFIPYPECIEKCDECVICTLPYPIEKALCYCGMNT, GTIPYTECIKTCDECFCTQKWPPESNVCICINH, QKIPFLLCDRVCDRCICDRRVPEHAECTCAQW | 4 | 3 | 4 | 4 | 4 | 4 | 99.6 | 99.3 | 0 |