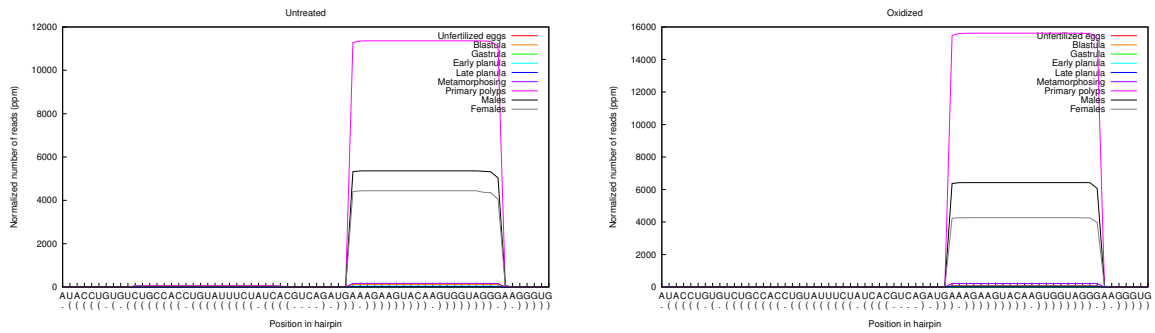


Supplemental Figure S1

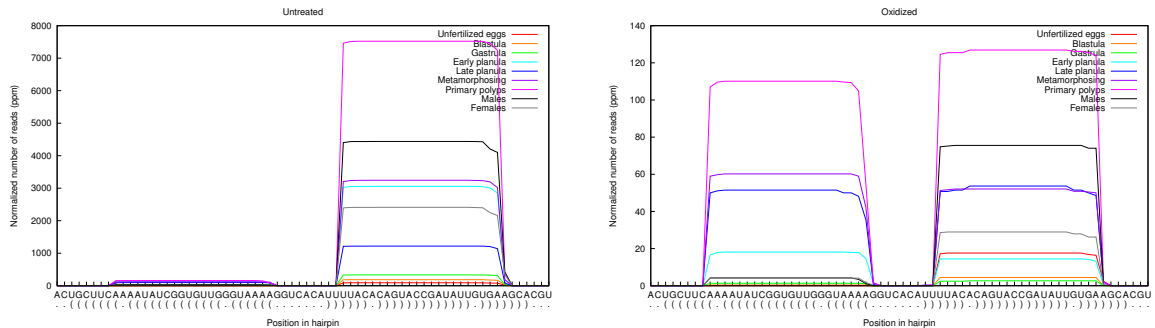
Figure legend: In each of the following graphs, the x-axis indicates nucleotide position along the hairpin sequence (predicted secondary structure is represented by dots and brackets, with dots indicating unpaired nucleotides and opening and closing brackets representing paired nucleotides). The y-axis indicates the number of reads covering each nucleotide in each library (the left panel shows the 9 untreated libraries, the right panel shows the 9 oxidized libraries). For miRNAs mapping several unbranched hairpins on the *Nematostella* genome, the read profile is shown for each genomic locus (one row per locus).

The “cumulated abundance” given for each identified miRNA is the total read count across all 18 libraries, including alternative miRNA isoforms encompassing the major isoform sequence.

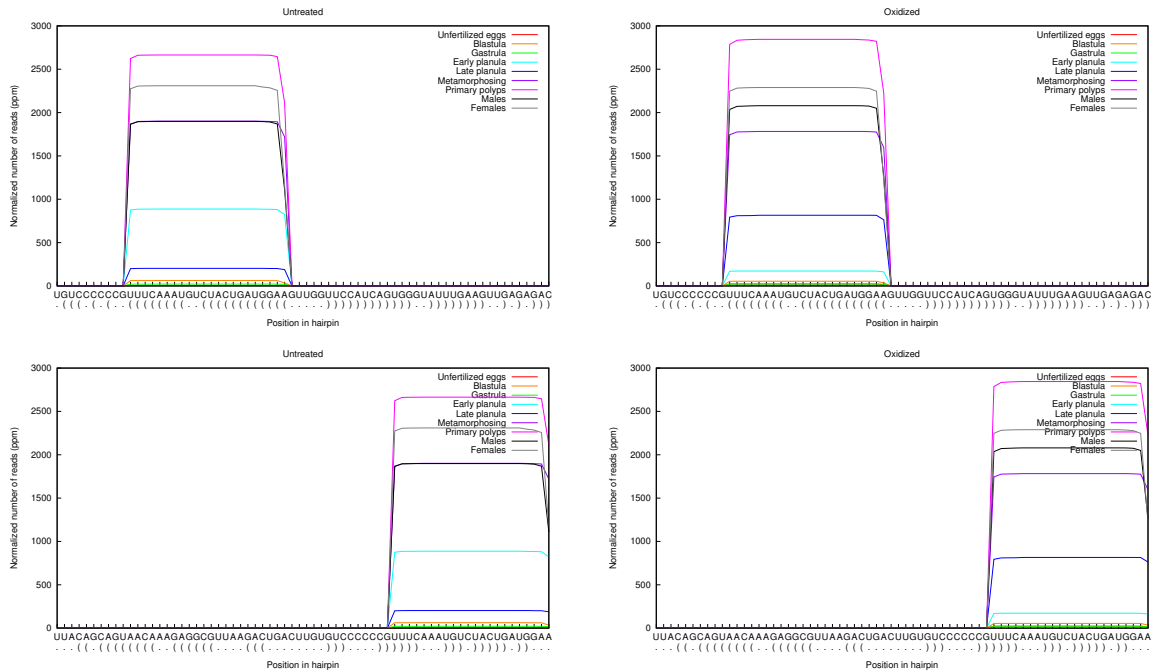
1 Candidate AAAGAAGTACAAGTGGTAGGG, cumulated abundance=165,071 reads (*known pre-miRNA: pre-nve-mir-2023*)



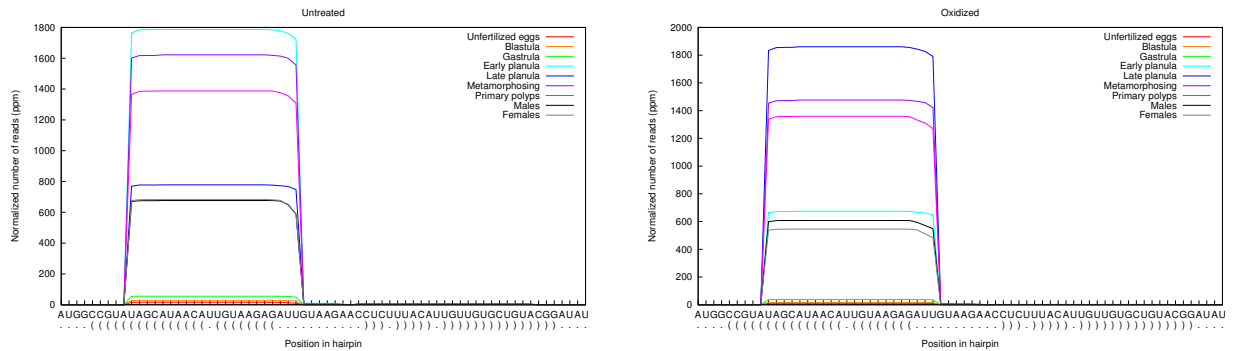
2 Candidate TTACACAGTACCGATATTGTGA, cumulated abundance=72,944 reads (*known pre-miRNA: pre-nve-mir-2024a*)



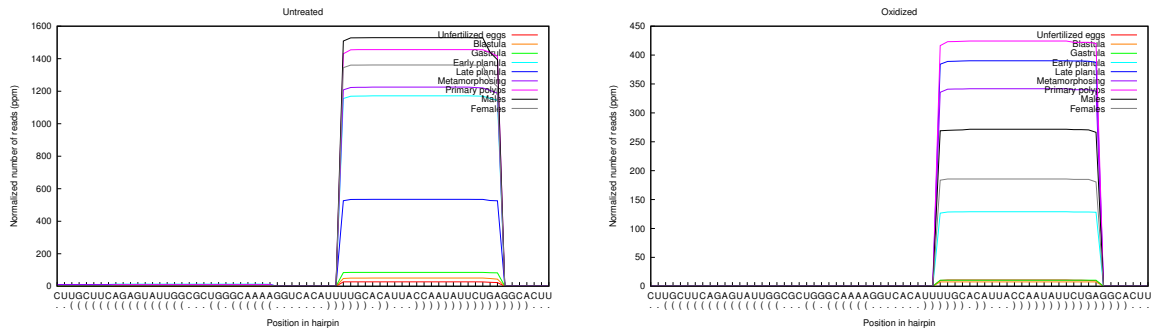
3 Candidate TTTCAAATGTCTACTGATGGA, cumulated abundance=61,909 reads (*known pre-miRNA: pre-nve-mir-2026*)



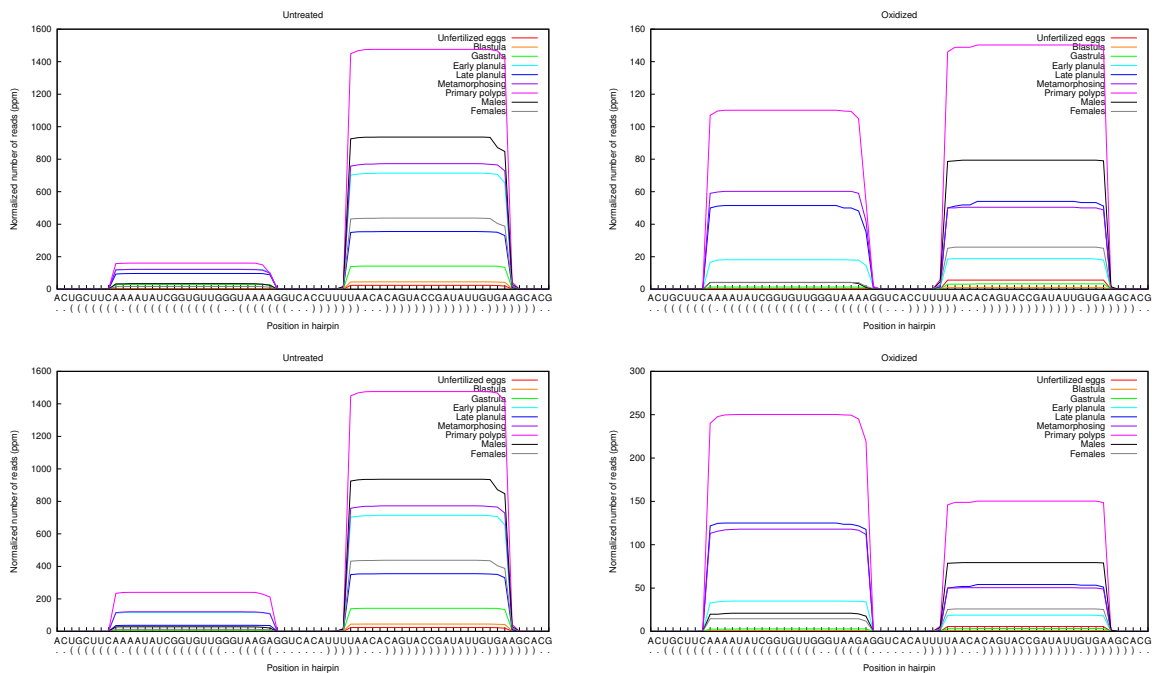
4 Candidate TAGCATAACATTGTAAGAGAT, cumulated abundance=42,821 reads (*known pre-miRNA: pre-nve-mir-2030*)



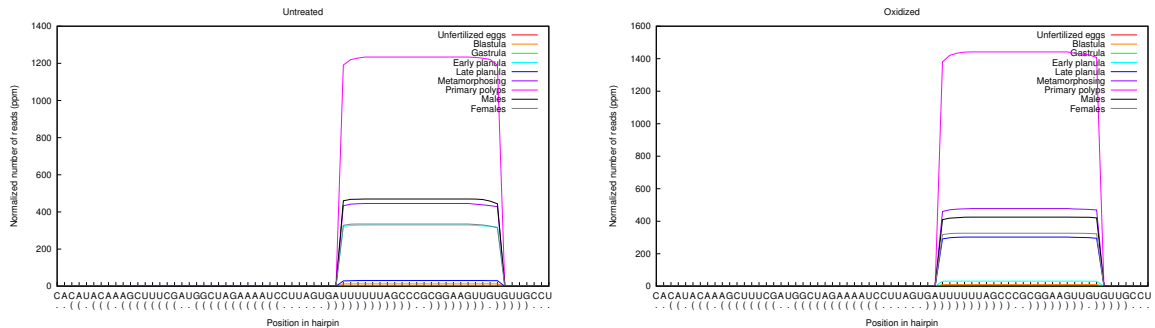
5 Candidate TTGCACATTACCAATATTCTGA, cumulated abundance=28,051 reads (*known pre-miRNA: pre-nve-mir-2024e*)



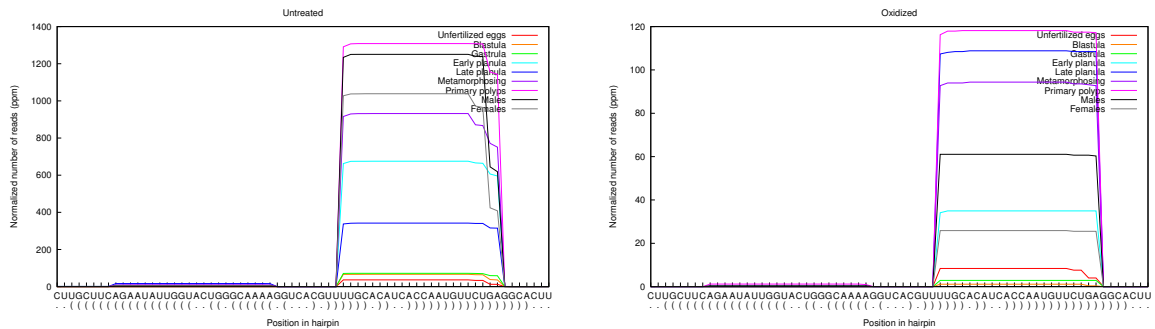
6 Candidate TAACACAGTACCGATATTGTGA, cumulated abundance=16,572 reads (*known pre-miRNA: pre-nve-mir-2024g*)



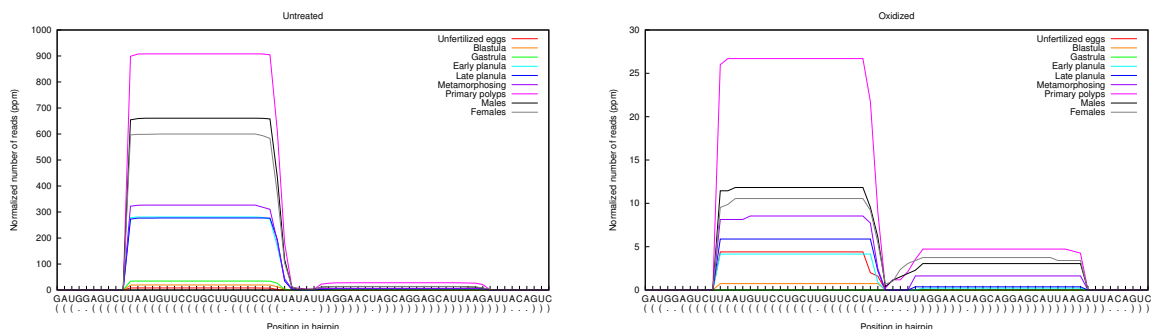
7 Candidate TTTT TAGCCCGCGGAAGTTGT, cumulated abundance=19,080 reads (*known pre-miRNA: pre-nve-mir-2025*)



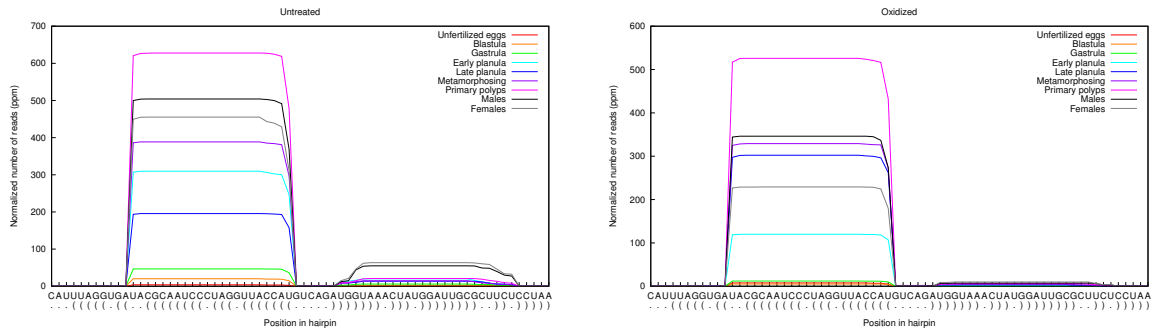
8 Candidate TTGCACATCACCAATGTTCT, cumulated abundance=19,152 reads (*known pre-miRNA: pre-nve-mir-2024f*)



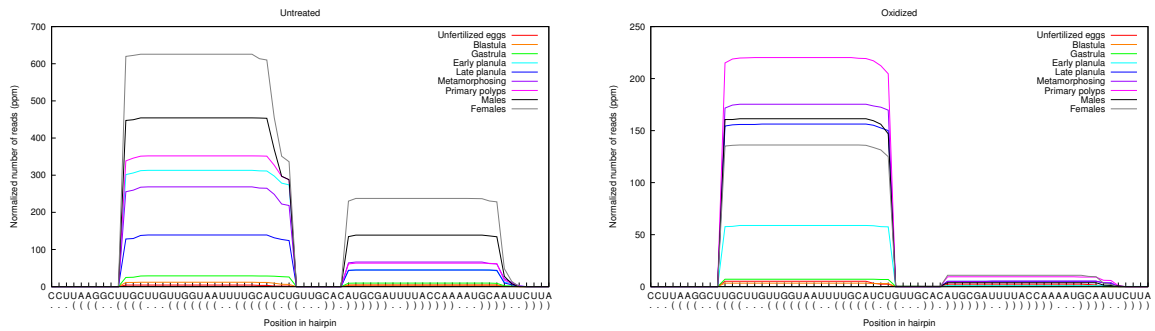
9 Candidate TAATGTTTCCTGCTTGTTTCCT, cumulated abundance=10,228 reads (*known pre-miRNA: pre-nve-mir-2028*)



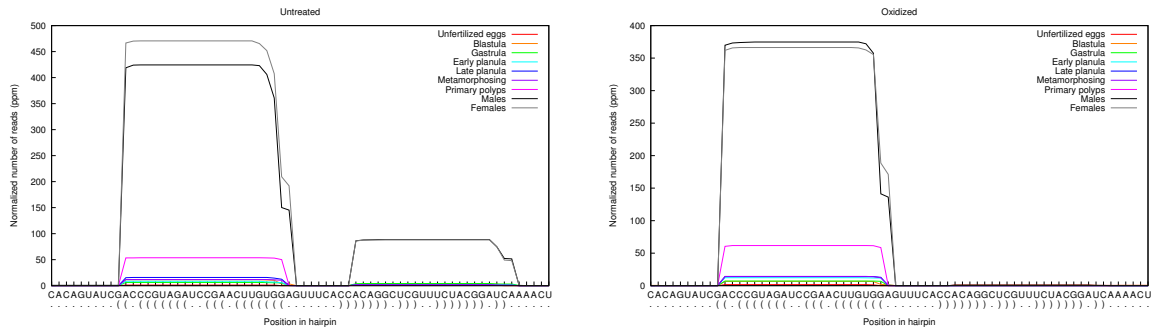
10 Candidate TACGCAATCCCCTAGGTTACCA, cumulated abundance=13,913 reads (*known pre-miRNA: pre-nve-mir-2029*)



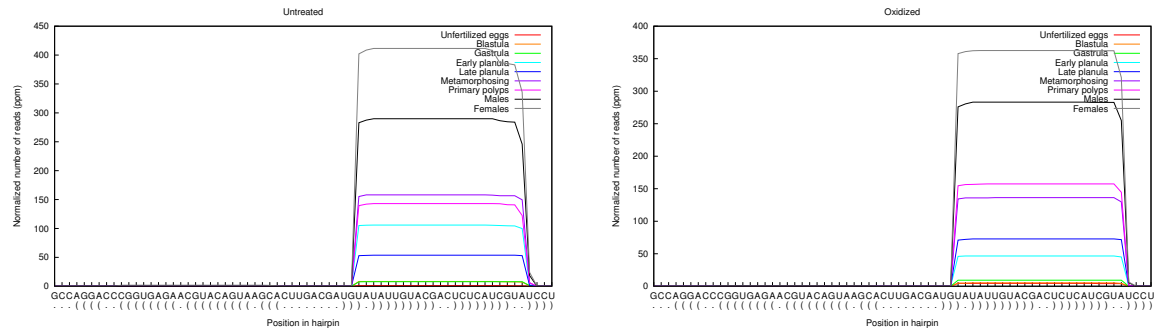
11 Candidate TGCTTGTTGGTAATTTTGCA, cumulated abundance=9,617 reads (*known pre-miRNA: pre-nve-mir-2027*)



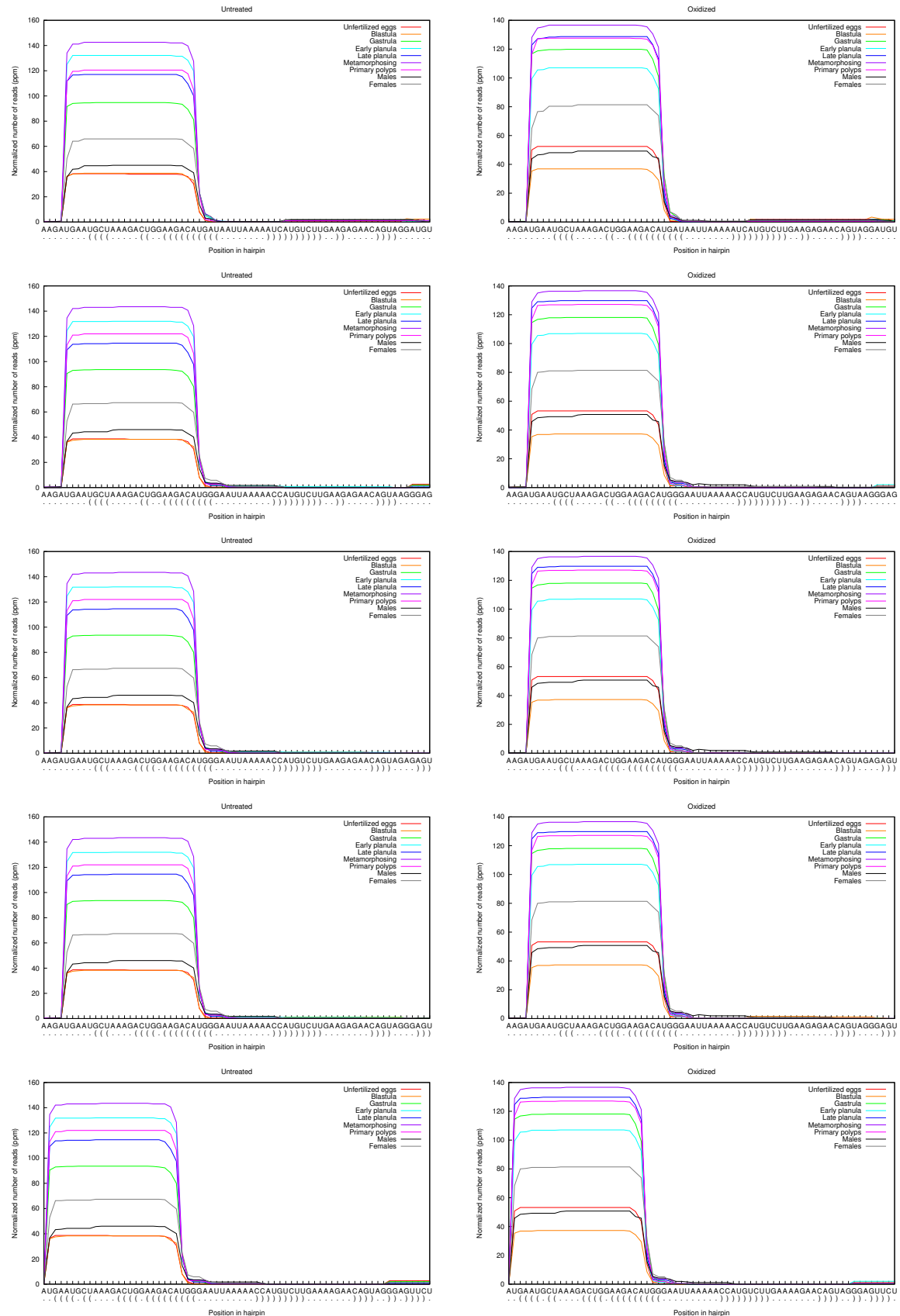
12 Candidate ACCCGTAGATCCGAACCTTGTG, cumulated abundance=4,892 reads (*known pre-miRNA: pre-nve-mir-100*)

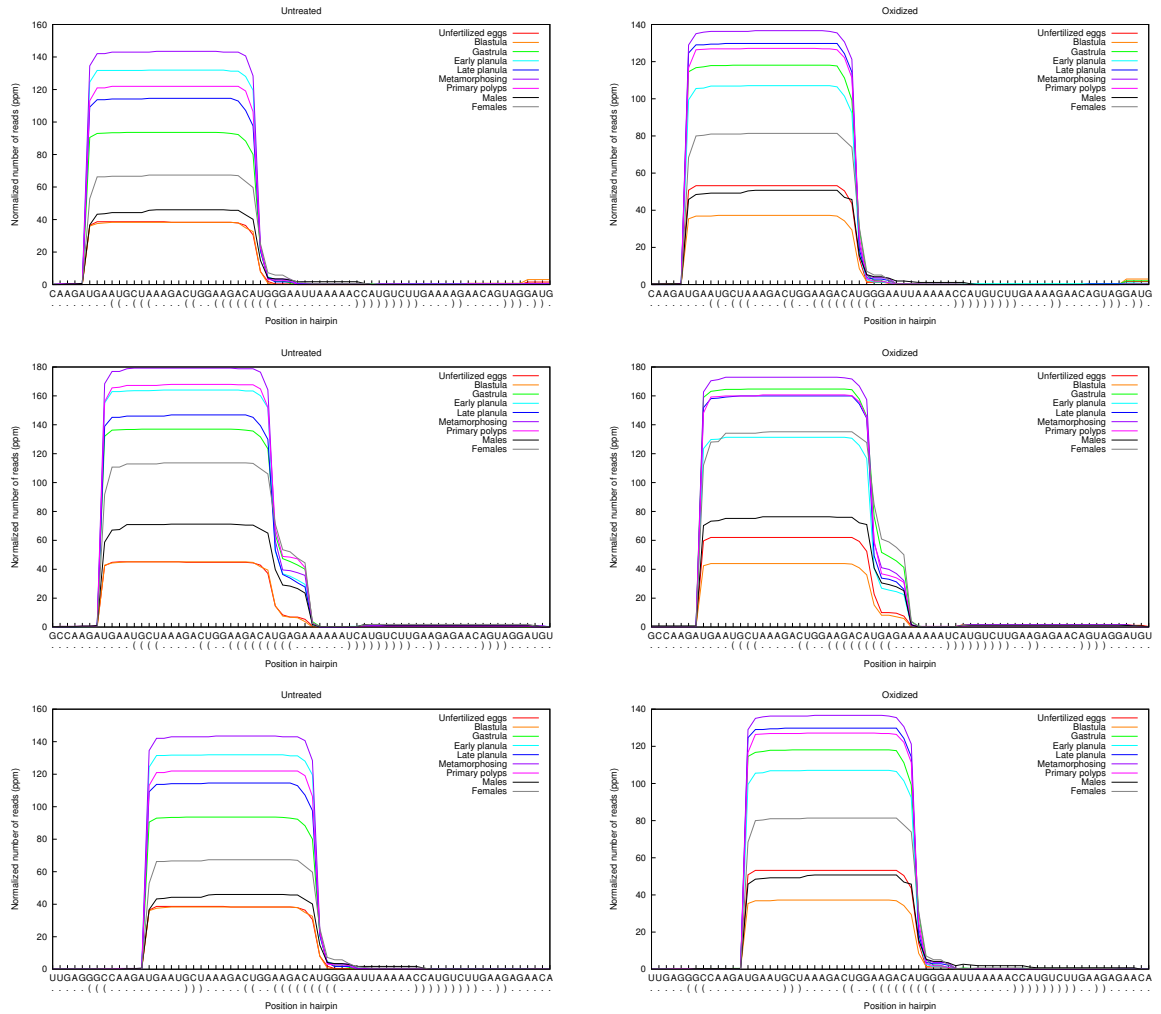


13 Candidate TATATTGTACGACTCTCATCGTA, cumulated abundance=5,994 reads (*known pre-miRNA: pre-nve-mir-2036*)

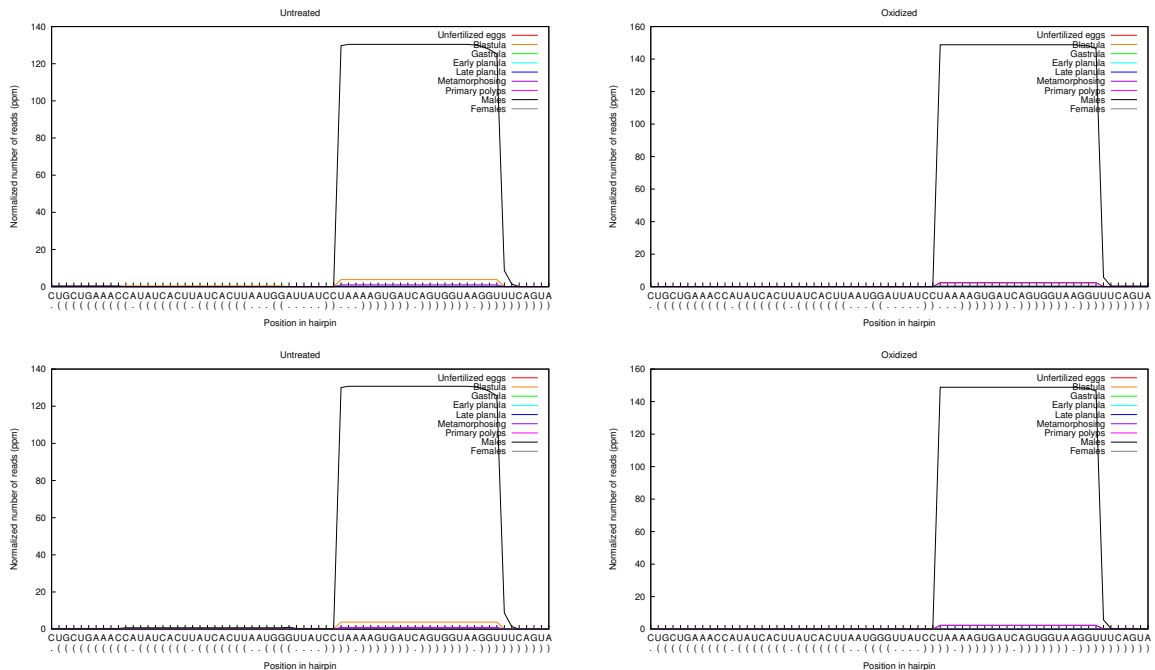


14 Candidate TGAATGCTAAAGACTGGAAGACA, cumulated abundance=7,058 reads (*novel pre-miRNA: pre-nve-mir-9412*)

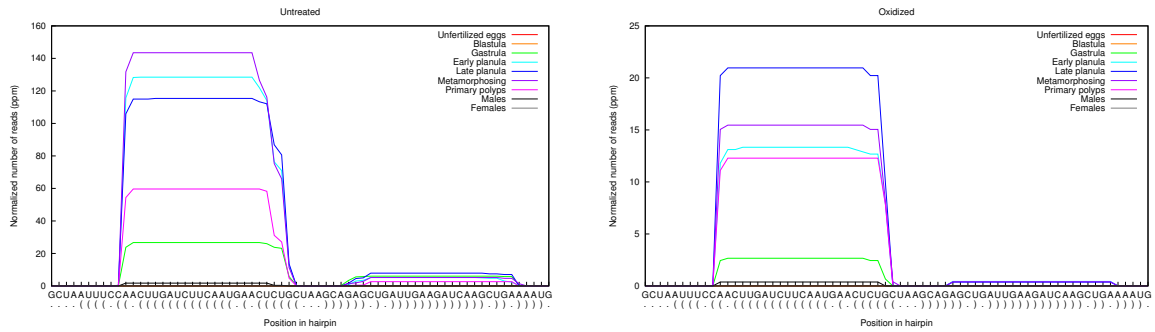




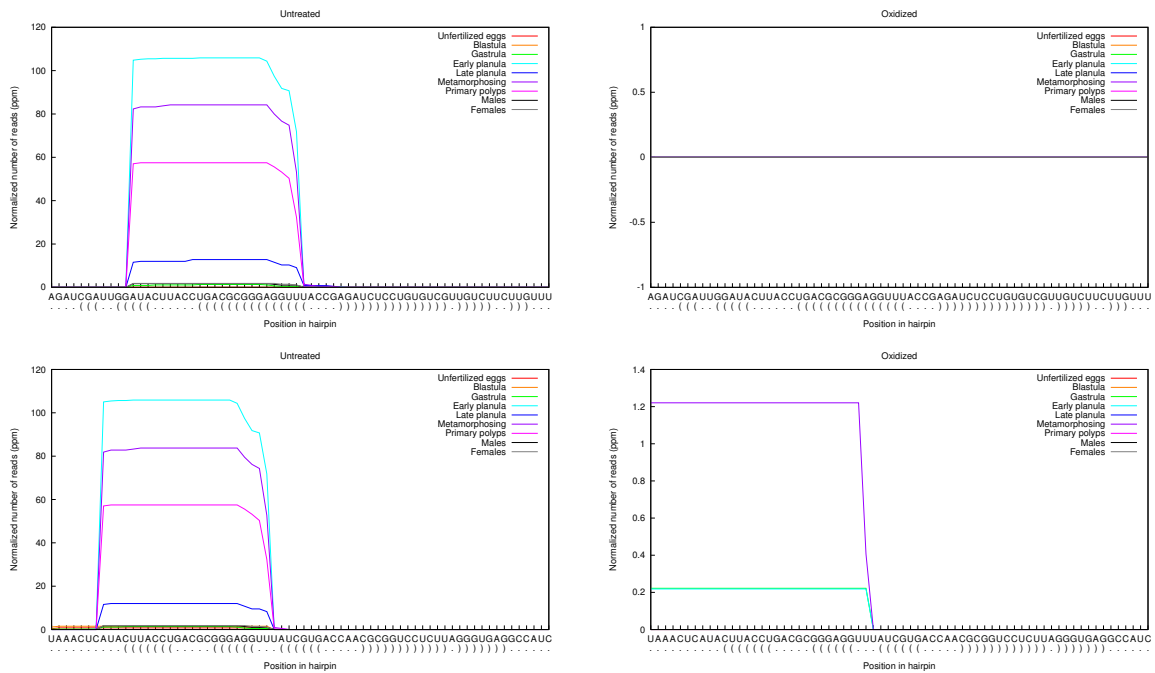
15 Candidate TAAAAGTGATCAGTGGTAAGGT, cumulated abundance=772 reads (*novel pre-miRNA: pre-nve-mir-9413*)



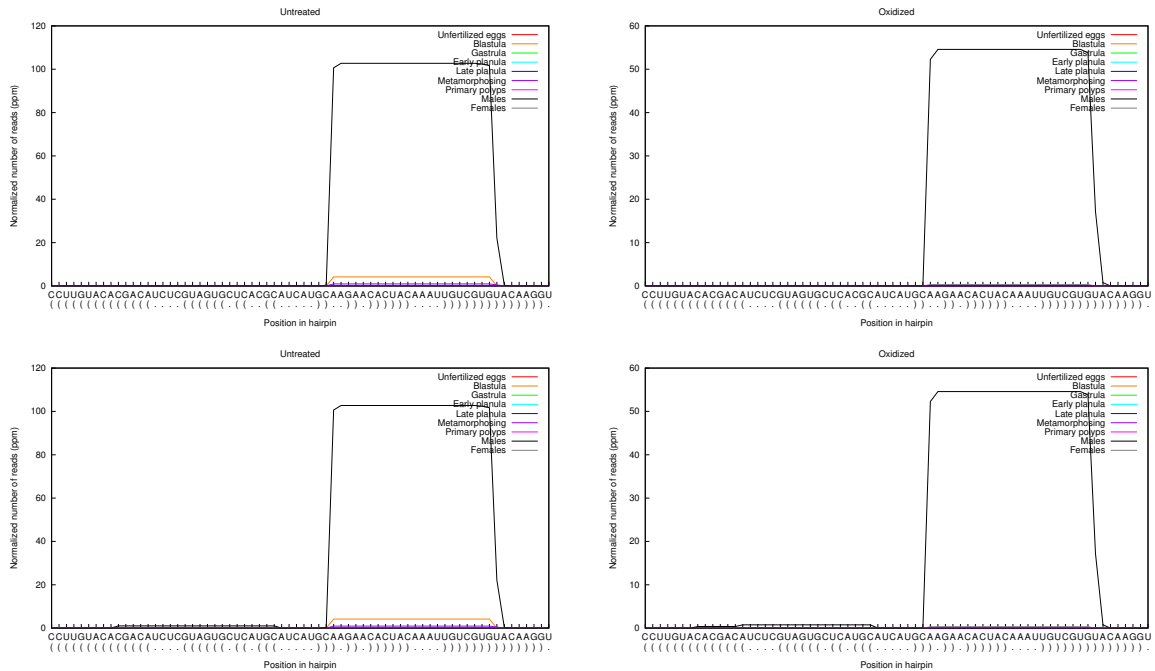
16 Candidate AACTTGATCTTCAATGAACT, cumulated abundance=1,472 reads (*novel pre-miRNA: pre-nve-mir-9414*)



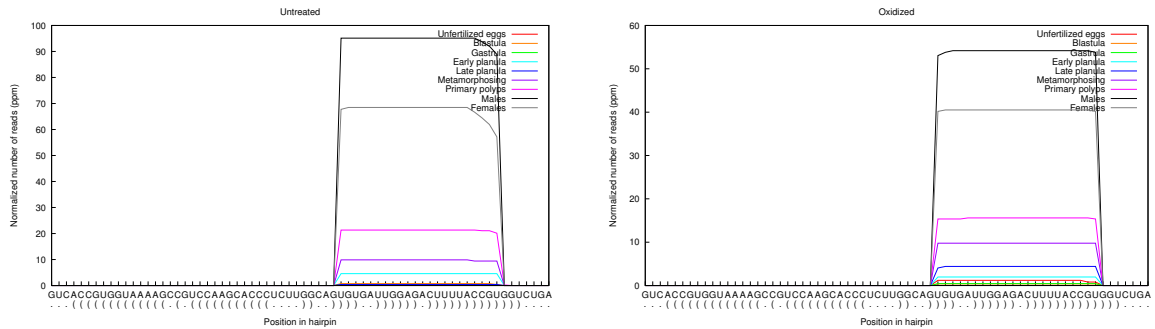
17 Candidate ATACTTACCTGACGCGGGAGGT, cumulated abundance=832 reads (*novel pre-miRNA: pre-nve-mir-9415*)



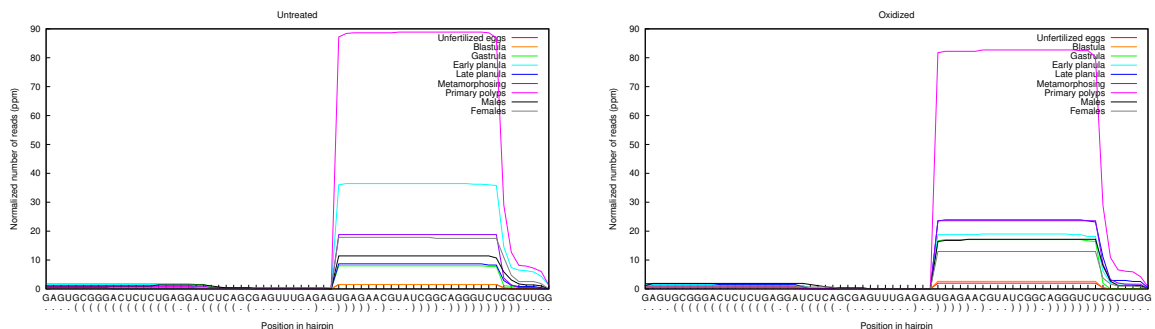
18 Candidate AAGAACACTACAAATTGTCGTG, cumulated abundance=437 reads (*novel pre-miRNA: pre-nve-mir-9416*)



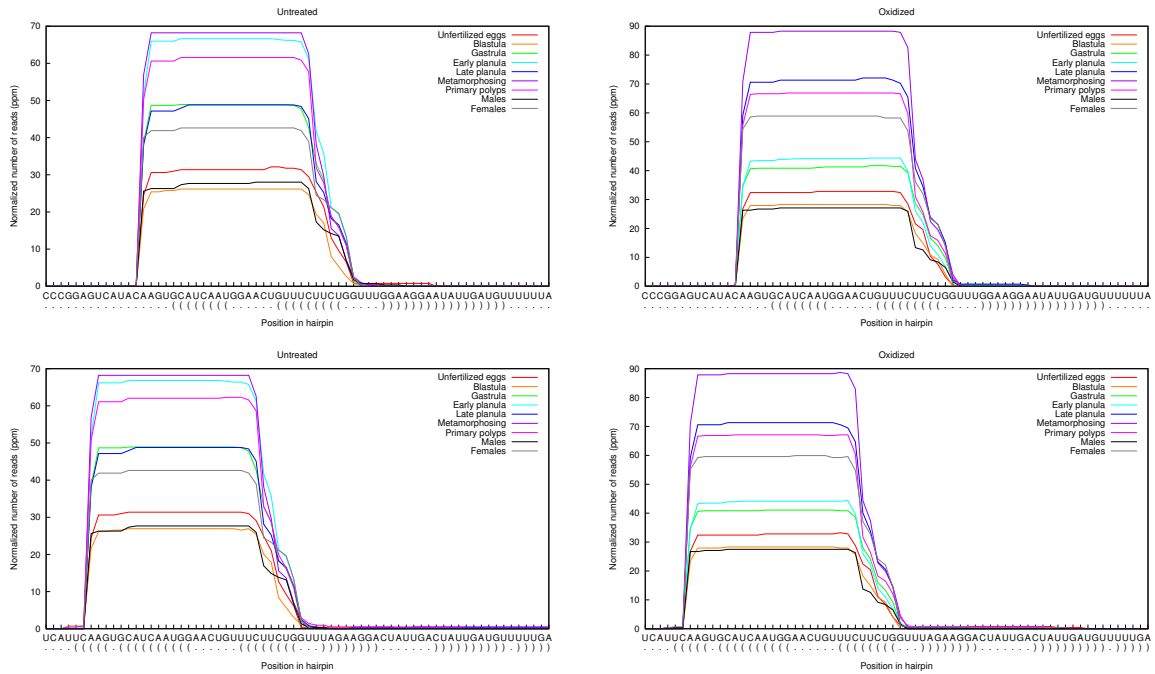
19 Candidate TGTGATTGGAGACTTTTACCGT, cumulated abundance=908 reads (*known pre-miRNA: pre-nve-mir-2037*)



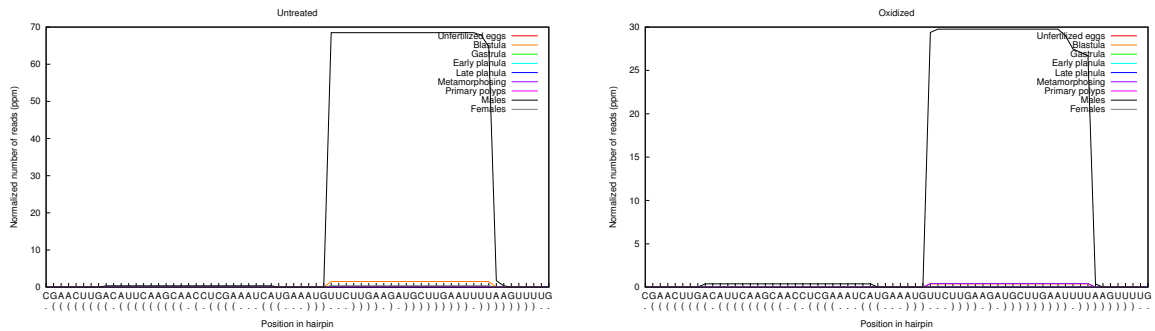
20 Candidate TGAGAACGTATCGGCAGGGTCT, cumulated abundance=1,404 reads (*novel pre-miRNA: pre-nve-mir-9417*)



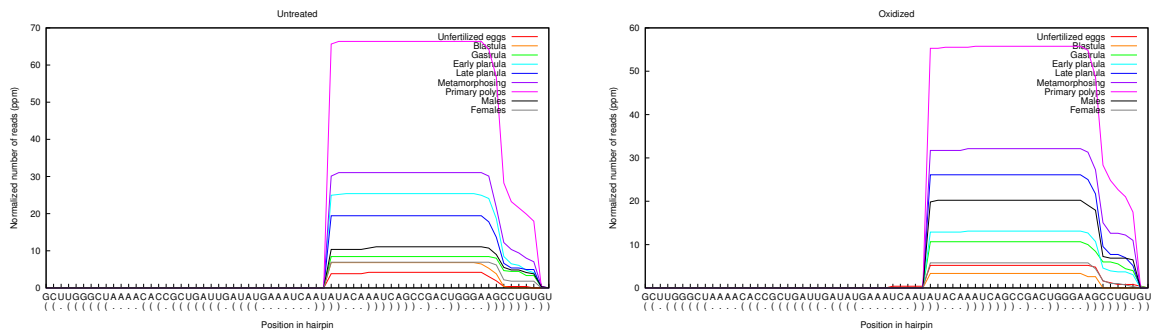
21 Candidate AAGTGCATCAATGGAAGTGTTC, cumulated abundance=2,151 reads (*novel pre-miRNA: pre-nve-mir-9418*)



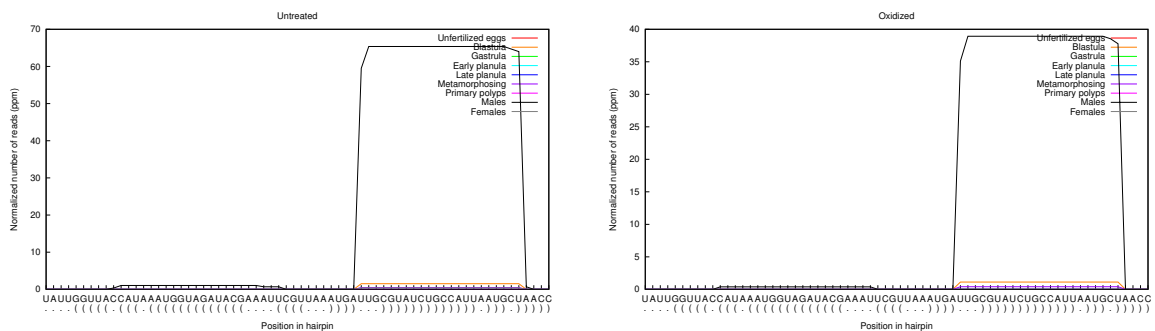
22 Candidate TTCTTGAAGATGCTTGAATTTT, cumulated abundance=263 reads (*novel pre-miRNA: pre-nve-mir-9419*)



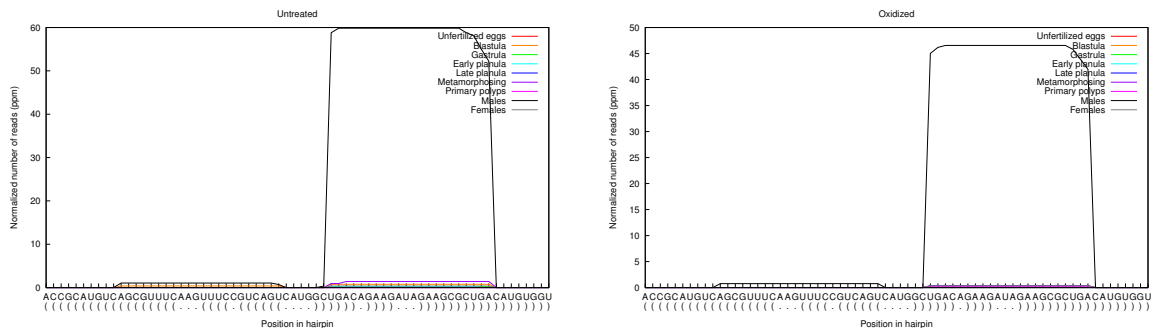
23 Candidate ATACAAATCAGCCGACTGGGA, cumulated abundance=1,572 reads (*novel pre-miRNA: pre-nve-mir-9420*)



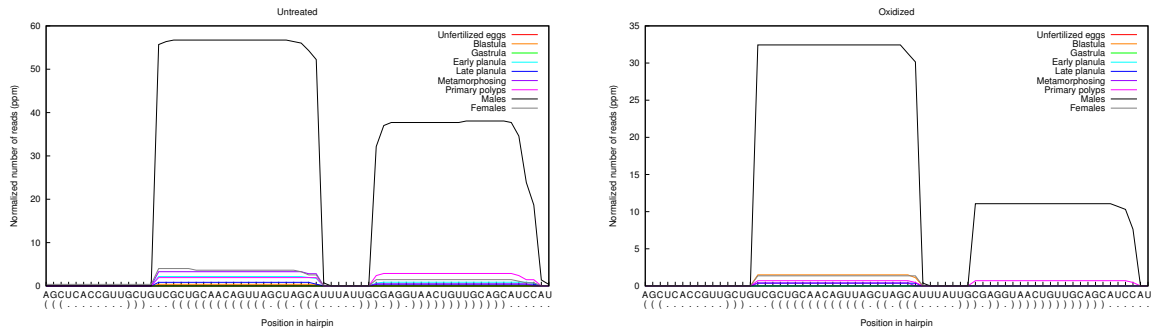
24 Candidate TTGCGTATCTGCCATTAATGCT, cumulated abundance=267 reads (*novel pre-miRNA: pre-nve-mir-9421*)



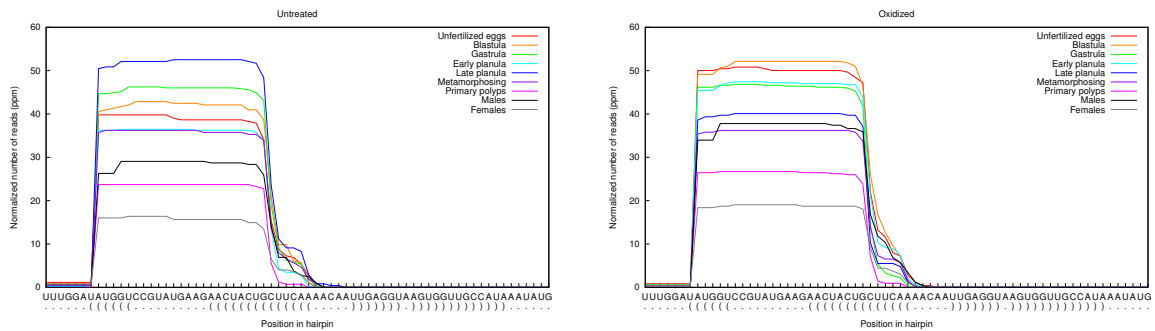
25 Candidate TGACAGAAGATAGAAGCGCTGA, cumulated abundance=265 reads (*novel pre-miRNA: pre-nve-mir-9422; some similarity to the plant miR156/miR157 family, probably fortuitous*)



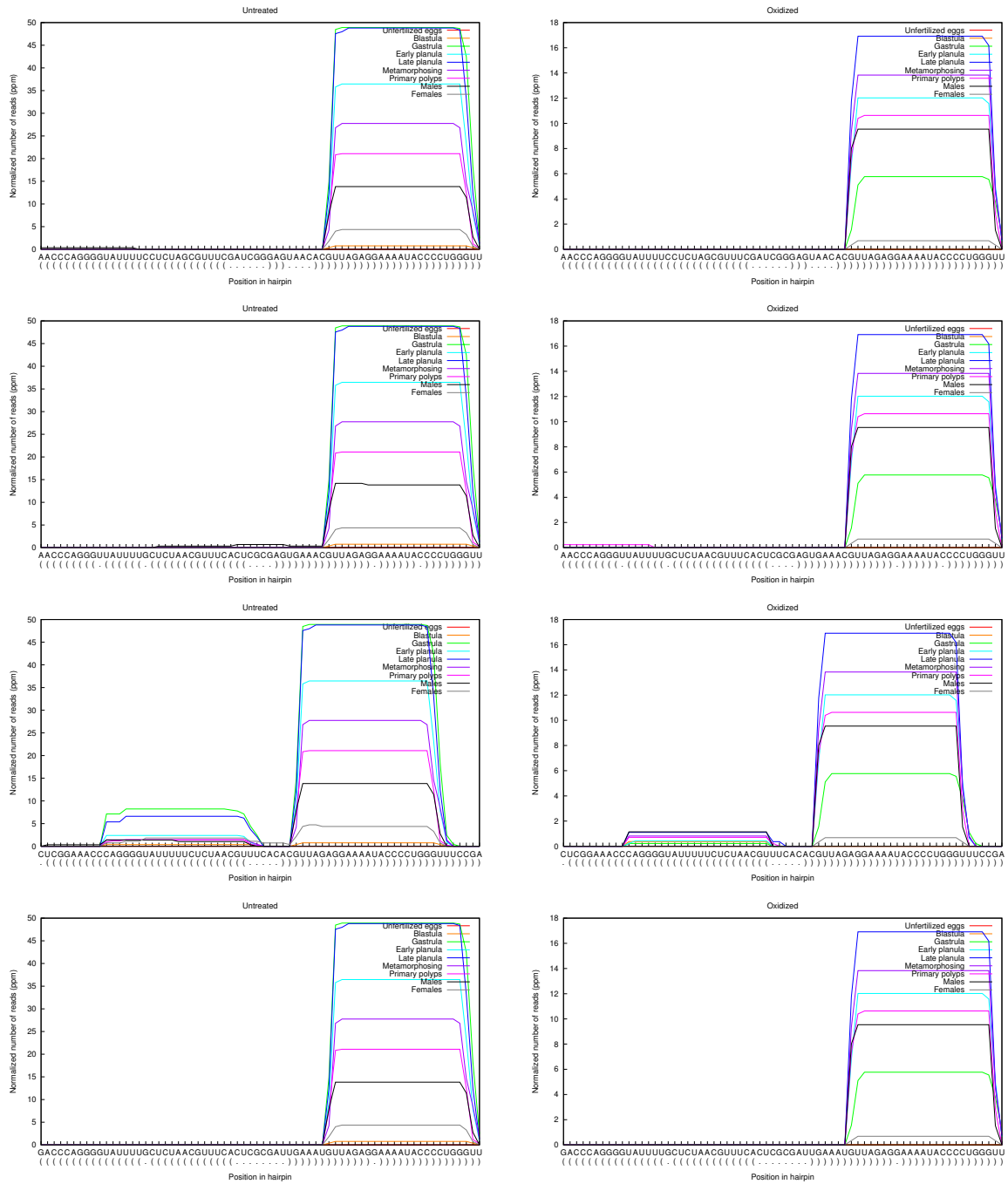
26 Candidate TCGCTGCAACAGTTAGCTAG, cumulated abundance=294 reads (*known pre-miRNA: pre-nve-mir-2032b*)



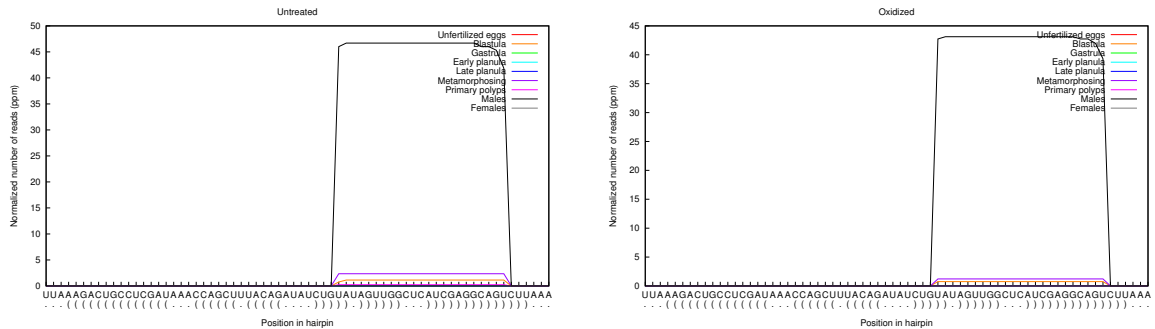
27 Candidate ATGGTCCGTATGAAGAACTACTG, cumulated abundance=1,935 reads (*novel pre-miRNA: pre-nve-mir-9423*)



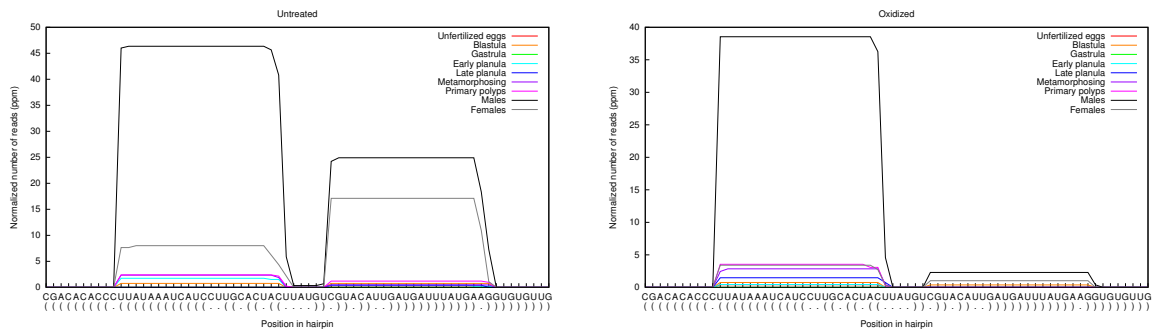
28 Candidate TTAGAGGAAAATACCCCTGG, cumulated abundance=923 reads (*novel pre-miRNA: pre-nve-mir-2041b*)



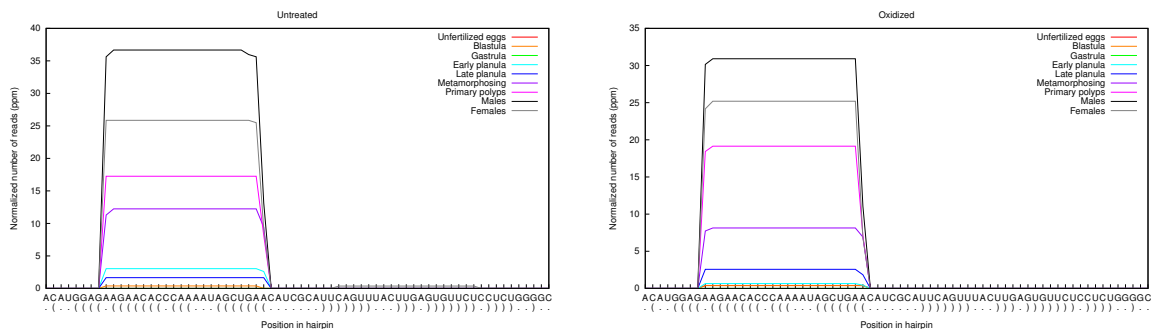
29 Candidate TATAGTTGGCTCATCGAGGCAGT, cumulated abundance=234 reads (*novel pre-miRNA: pre-nve-mir-9424a*)



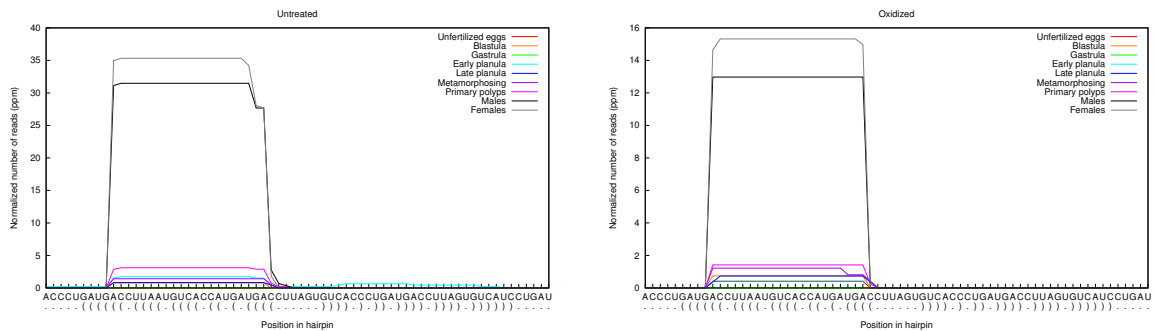
30 Candidate TTATAAATCATCCTTGCACTAC, cumulated abundance=282 reads (*known pre-miRNA: pre-nve-mir-2042*)



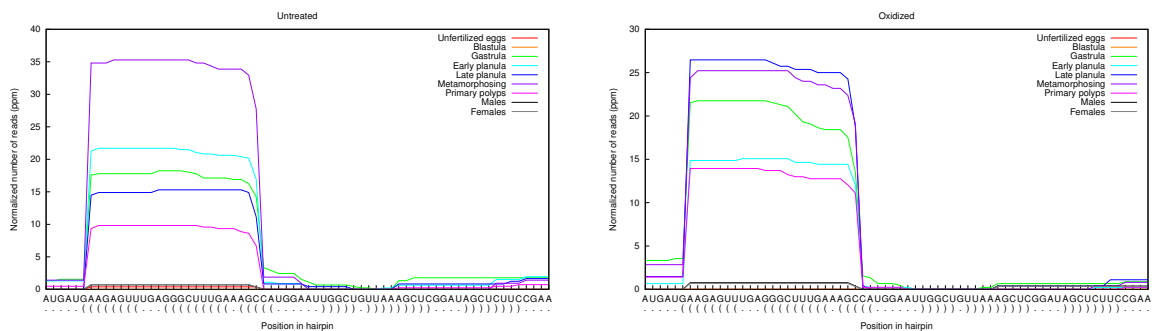
31 Candidate AAGAACACCCAAAATAGCTGA, cumulated abundance=544 reads (*novel pre-miRNA: pre-nve-mir-9425*)



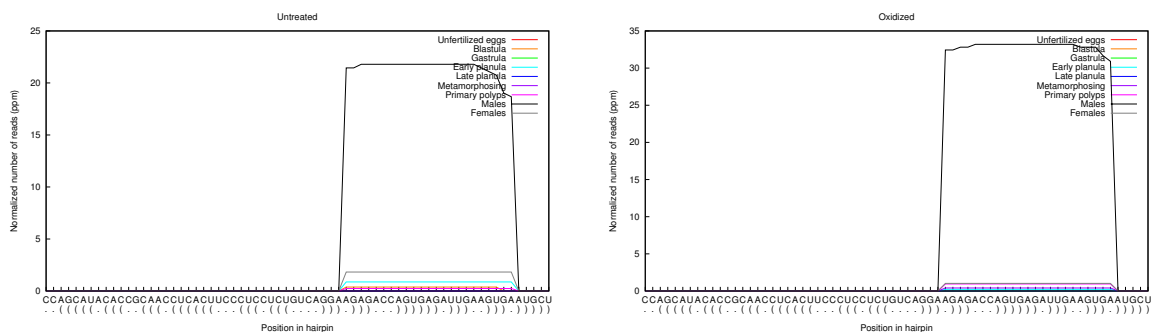
32 Candidate ACCTTAATGTCACCATGATGA, cumulated abundance=268 reads (*known pre-miRNA: pre-nve-mir-2038*)



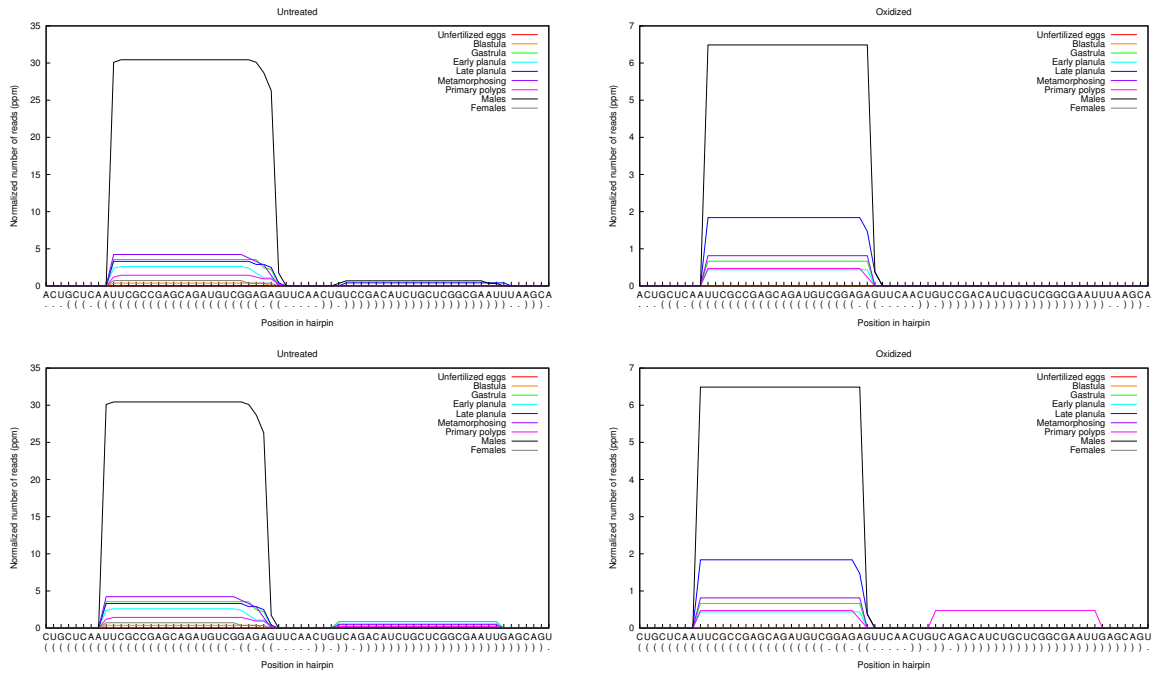
33 Candidate AAGAGTTTGAGGGCTTTGAAAG, cumulated abundance=650 reads (*novel pre-miRNA: pre-nve-mir-9426*)



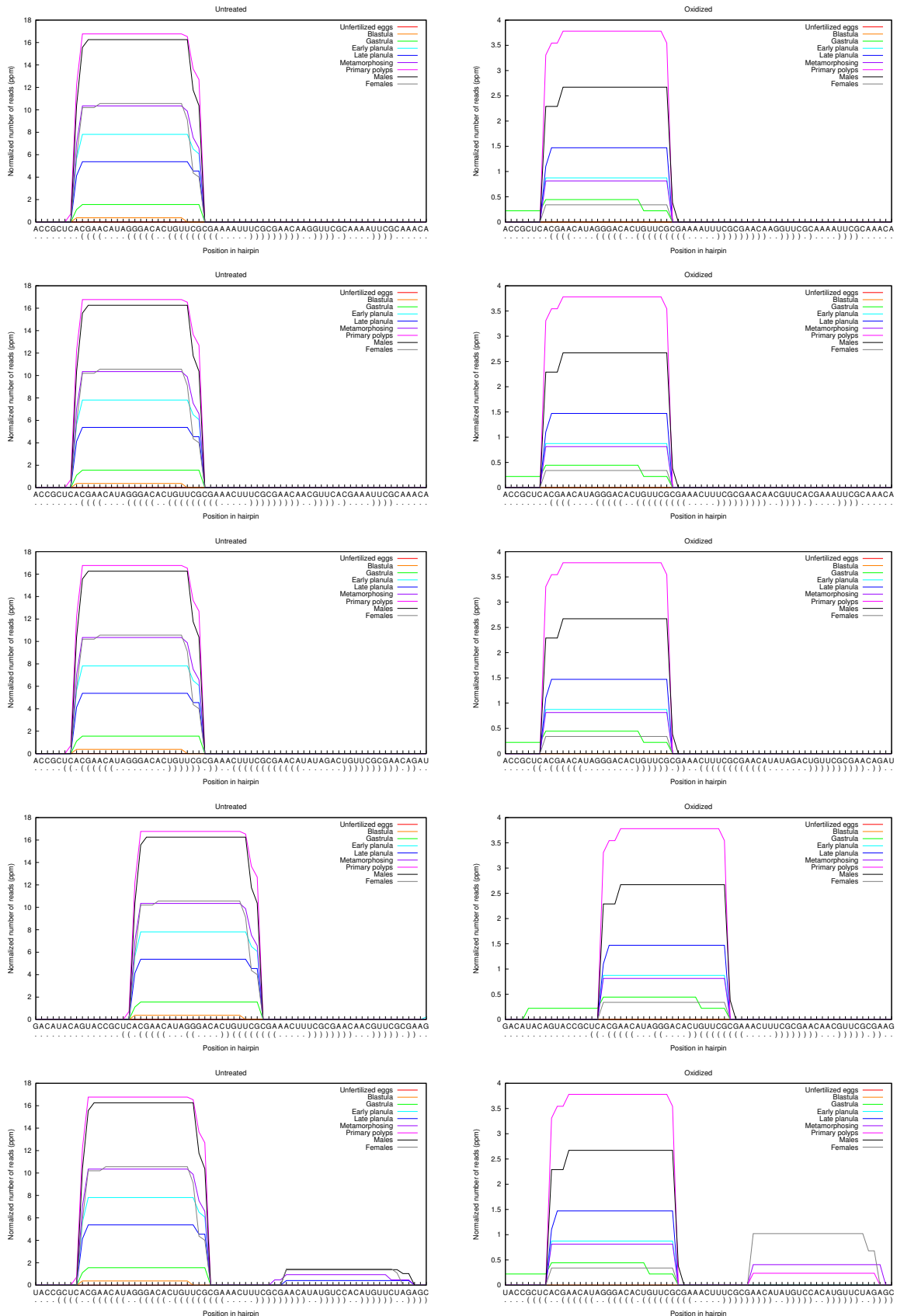
34 Candidate AGAGACCAGTGAGATTGAAGTGA, cumulated abundance=151 reads (*novel pre-miRNA: pre-nve-mir-9427; some similarity to ppc-miR-2270, probably fortuitous*)



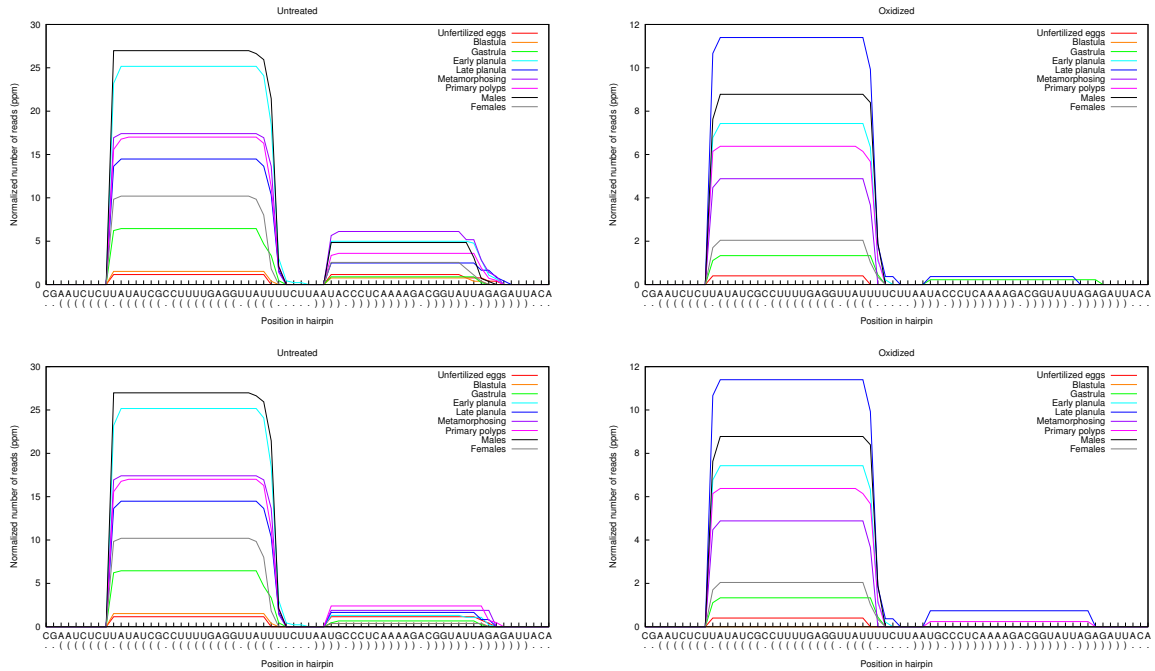
35 Candidate TTCGCCGAGCAGATGTCGG, cumulated abundance=167 reads (*known pre-miRNA: pre-nve-mir-2047*)



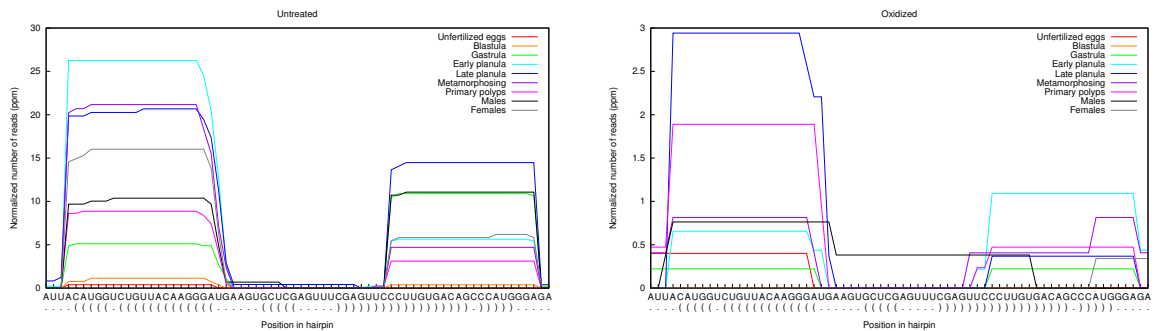
36 Candidate CGAACATAGGGGACACTGTT, cumulated abundance=420 reads (*novel pre-miRNA: pre-nve-mir-9428*)



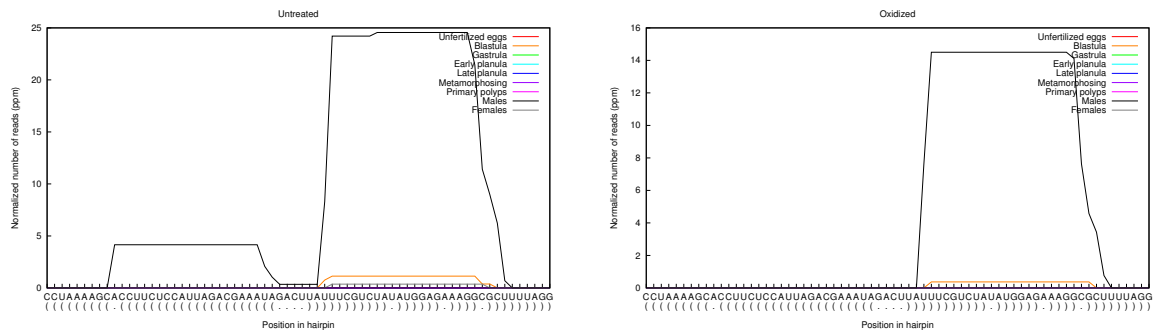
37 Candidate TATATCGCCTTTTGAGGTTA, cumulated abundance=507 reads (*known pre-miRNAs: pre-nve-mir-2043a and pre-nve-mir-2043b*)



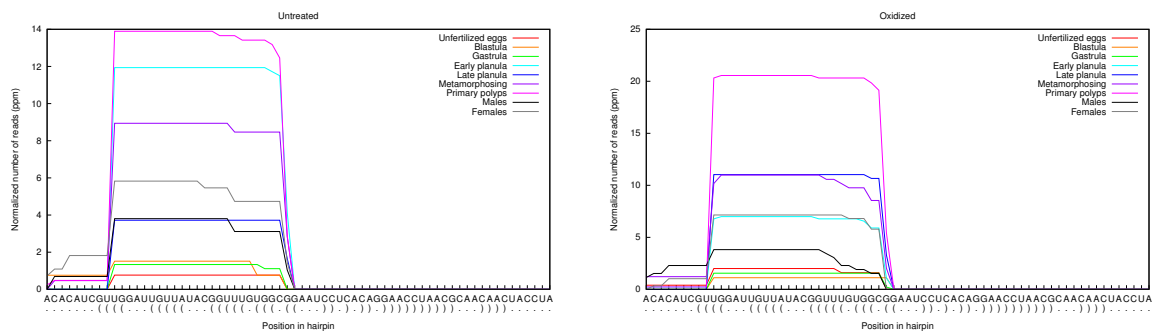
38 Candidate ACATGGTCTGTTACAAGGG, cumulated abundance=345 reads (*known pre-miRNA: pre-nve-mir-2035*)



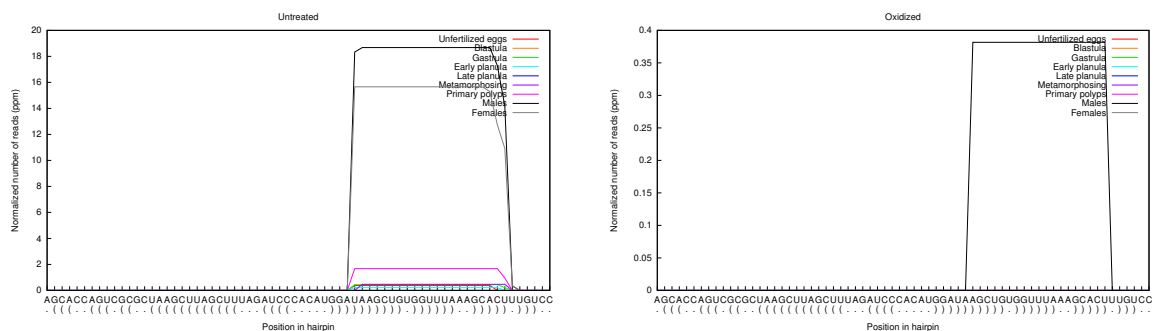
39 Candidate TTCGTCTATATGGAGAAAGG, cumulated abundance=103 reads (*novel pre-miRNA: pre-nve-mir-9429*)



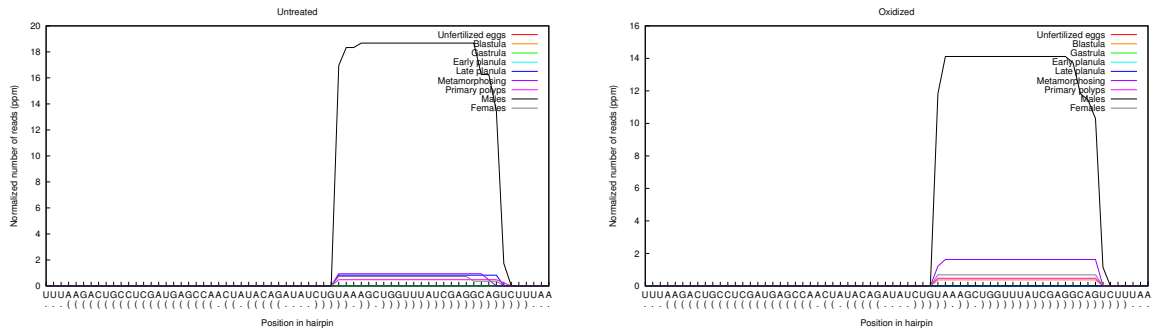
40 Candidate TGGATTGTTATACGGTT, cumulated abundance=517 reads (*novel pre-miRNA: pre-nve-mir-9430*)



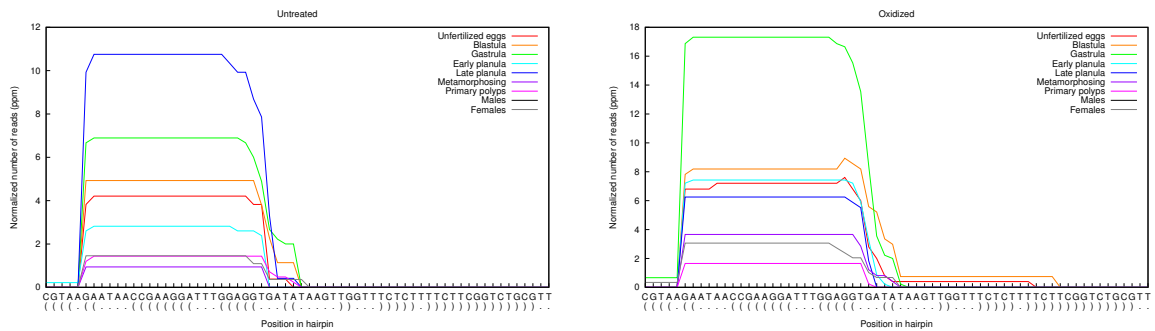
41 Candidate TAAGCTGTGGTTTAAAGCAC, cumulated abundance=107 reads (*novel pre-miRNA: pre-nve-mir-9431*)



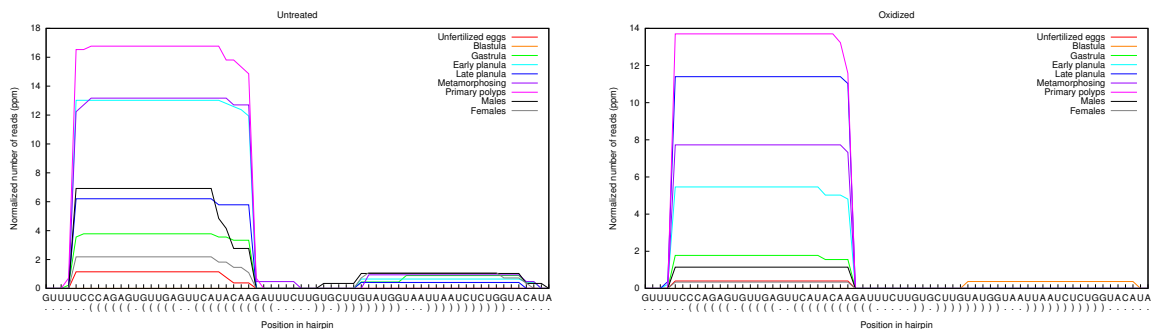
42 Candidate TAAAGCTGGTTTATCGAGGCA, cumulated abundance=81 reads (*novel pre-miRNA: pre-nve-mir-9424b*)



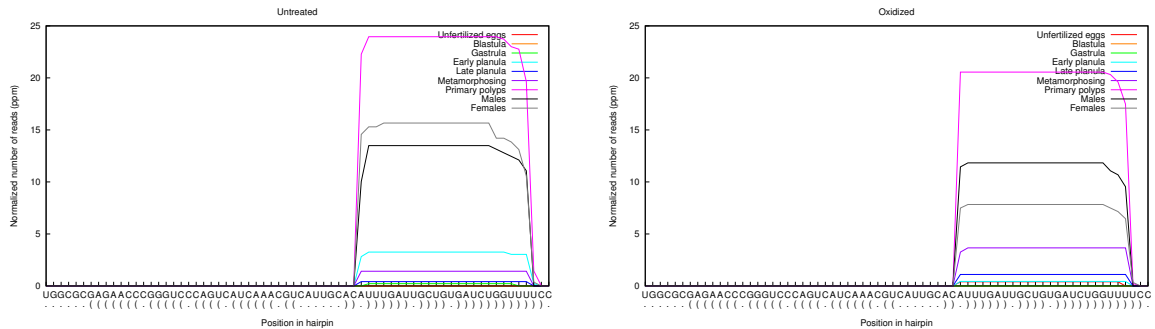
43 Candidate GAATAACCGAAGGATTTGGAGG, cumulated abundance=297 reads (*novel pre-miRNA: pre-nve-mir-9432*)



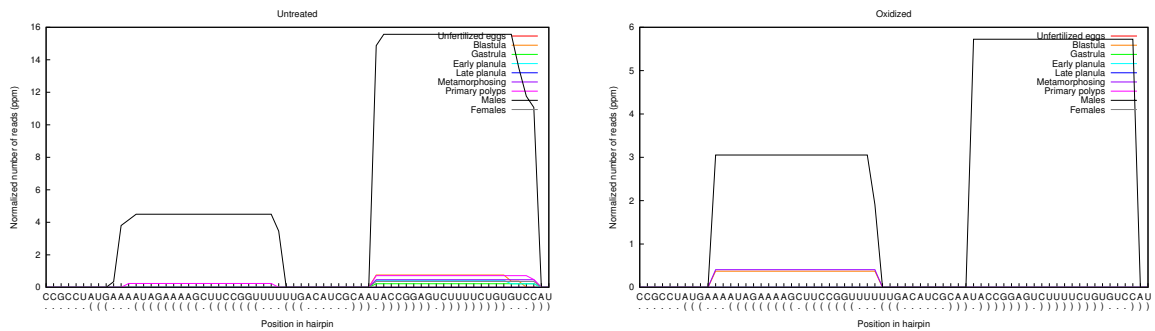
44 Candidate TCCCAGAGTGTTGAGTTCA, cumulated abundance=361 reads (*known pre-miRNA: pre-nve-mir-2045*)



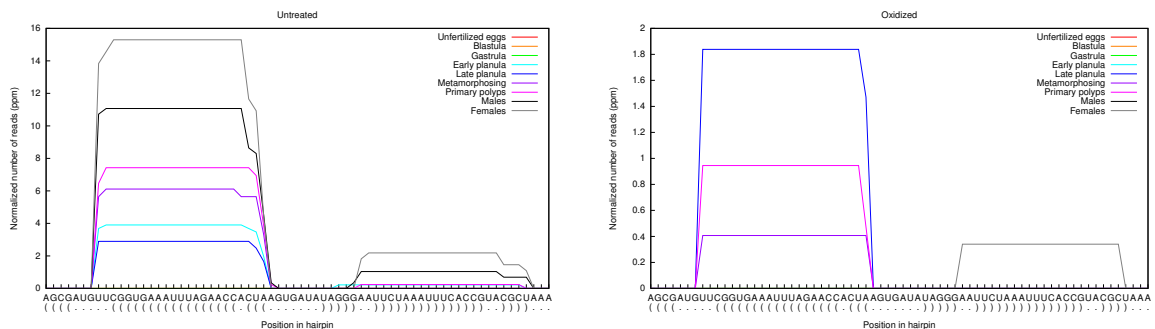
45 Candidate ATTTGATTGCTGTGATCTGGTT, cumulated abundance=310 reads (*known pre-miRNA: pre-nve-mir-2050*)



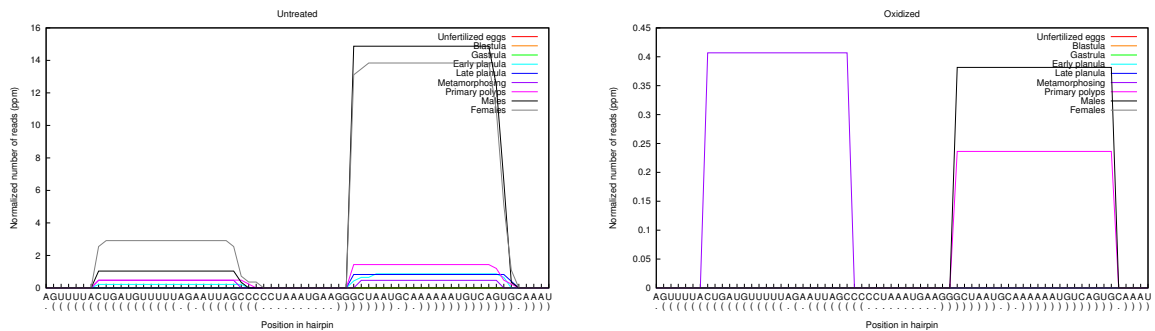
46 Candidate TACCGGAGTCTTTTCTGTGTC, cumulated abundance=54 reads (*known pre-miRNA: pre-nve-mir-2051*)



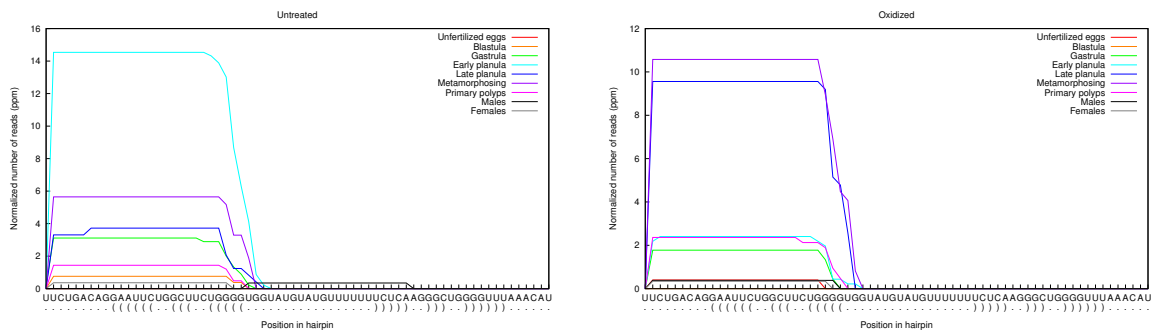
47 Candidate TTCGGTGAAATTTAGAACCAC, cumulated abundance=123 reads (*novel pre-miRNA: pre-nve-mir-9433*)



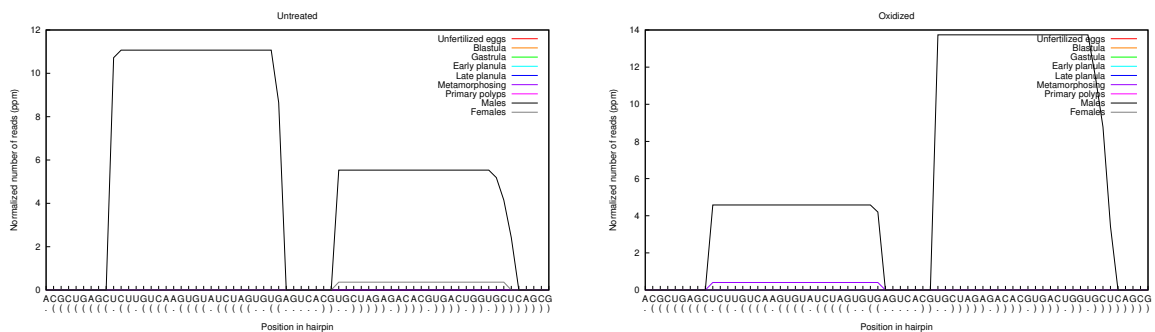
48 Candidate GCTAATGCAAAAAATGTCAG, cumulated abundance=76 reads (*known pre-miRNA: pre-nve-mir-2034*)



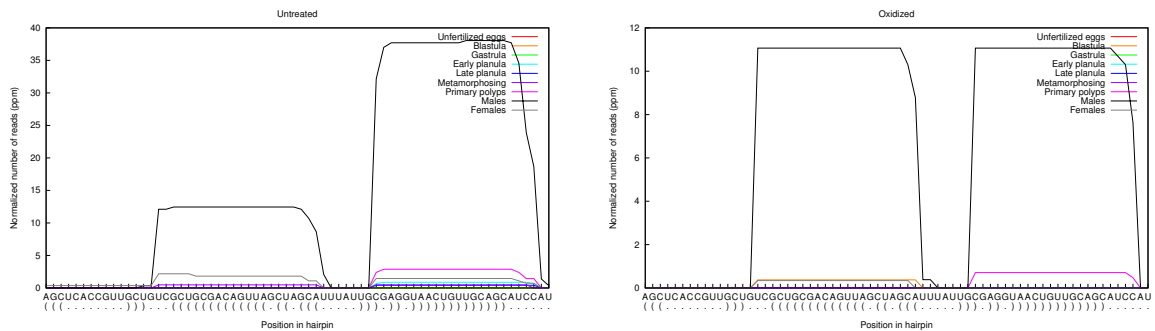
49 Candidate TCTGACAGGAATTCTGGCTTCTG, cumulated abundance=188 reads (*novel pre-miRNA: pre-nve-mir-9434*)



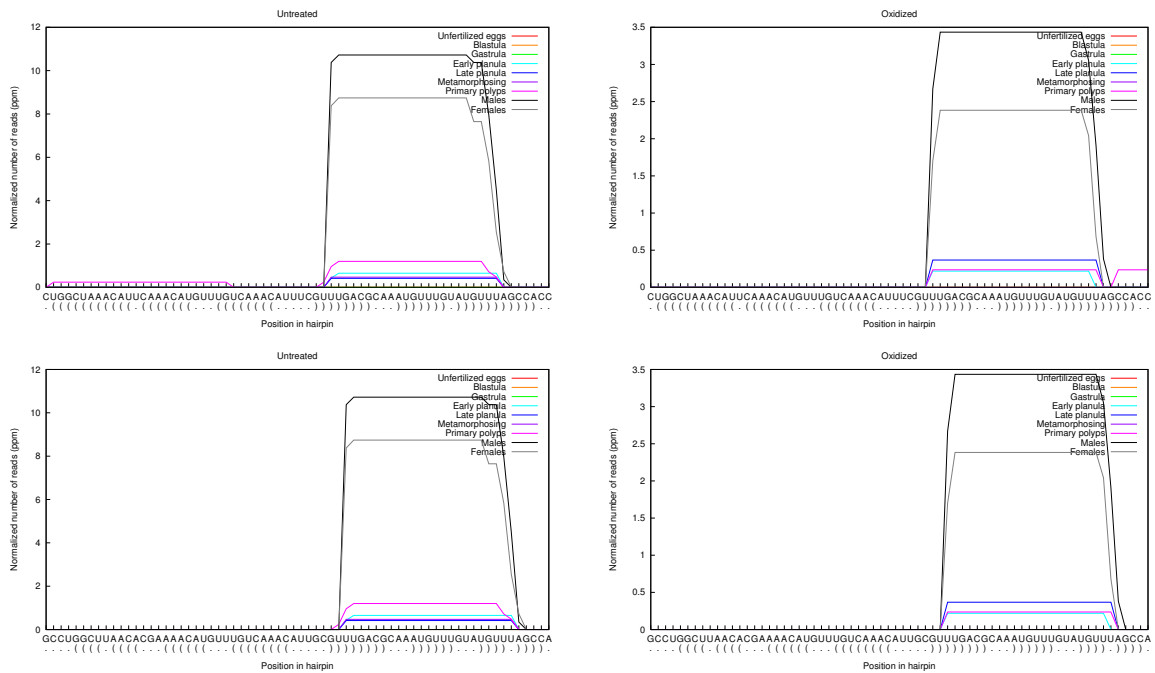
50 Candidate TCTTGTCAAGTGTATCTAGTGTG, cumulated abundance=37 reads (*novel pre-miRNA: pre-nve-mir-9435*)



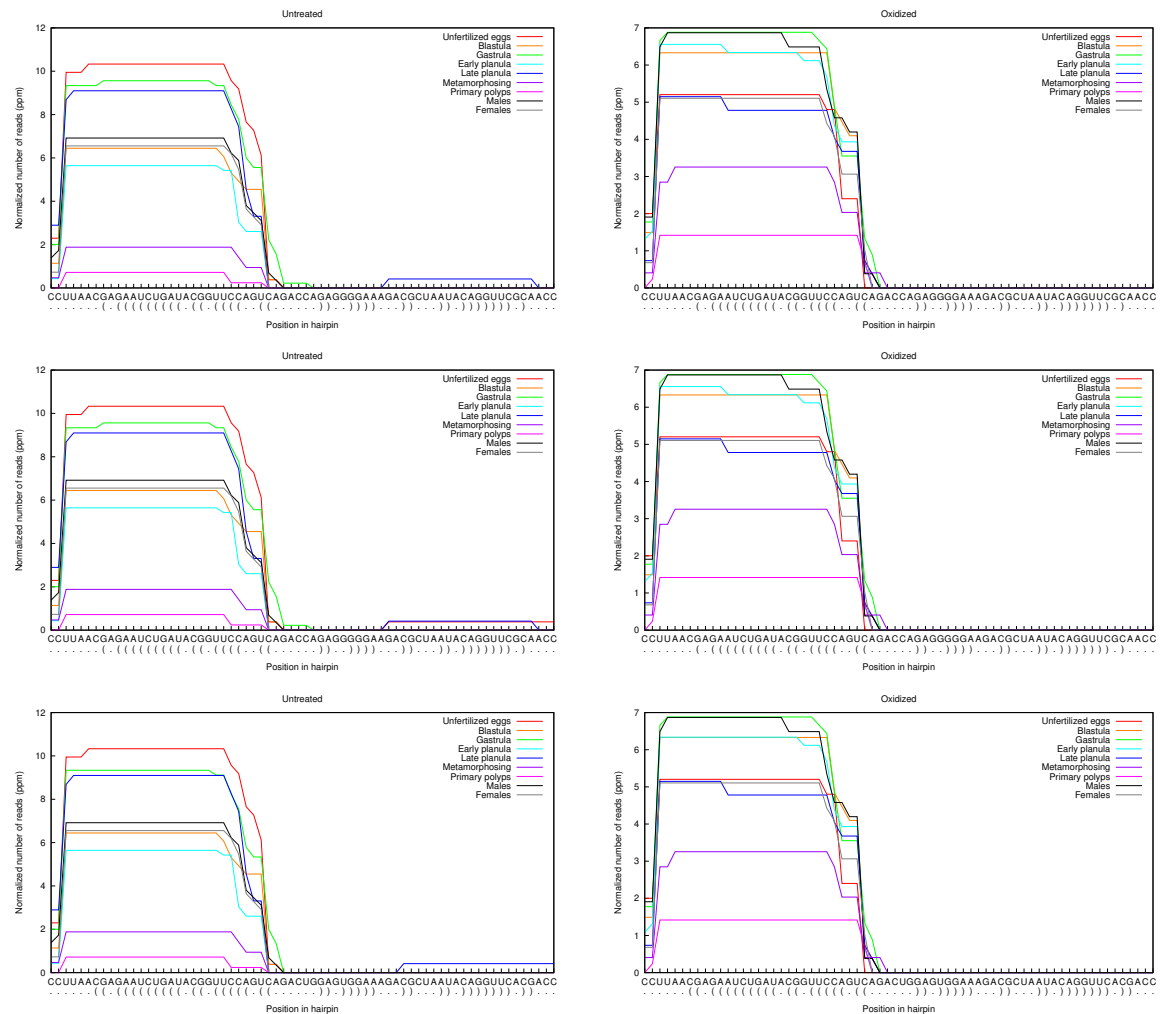
51 Candidate CGAGGTAAGTGTTCAGCAT, cumulated abundance=130 reads (*known pre-miRNA: pre-nve-mir-2032a*)



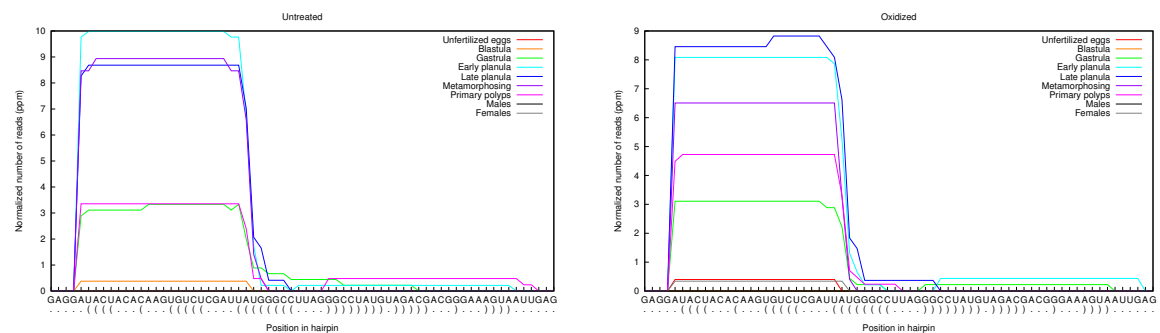
52 Candidate TTGACGCAAATGTTTGTATGT, cumulated abundance=72 reads (*novel pre-miRNA: pre-nve-mir-9436*)



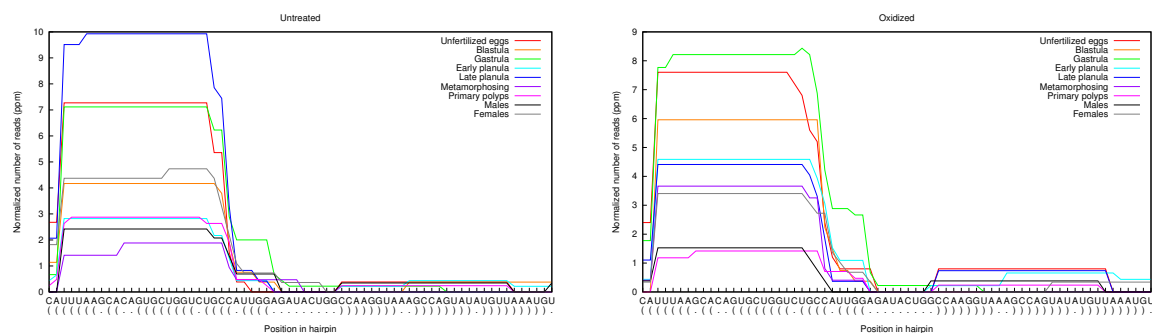
53 Candidate TTAACGAGAATCTGATACGGTTC, cumulated abundance=308 reads (*novel pre-miRNA: pre-nve-mir-9437*)



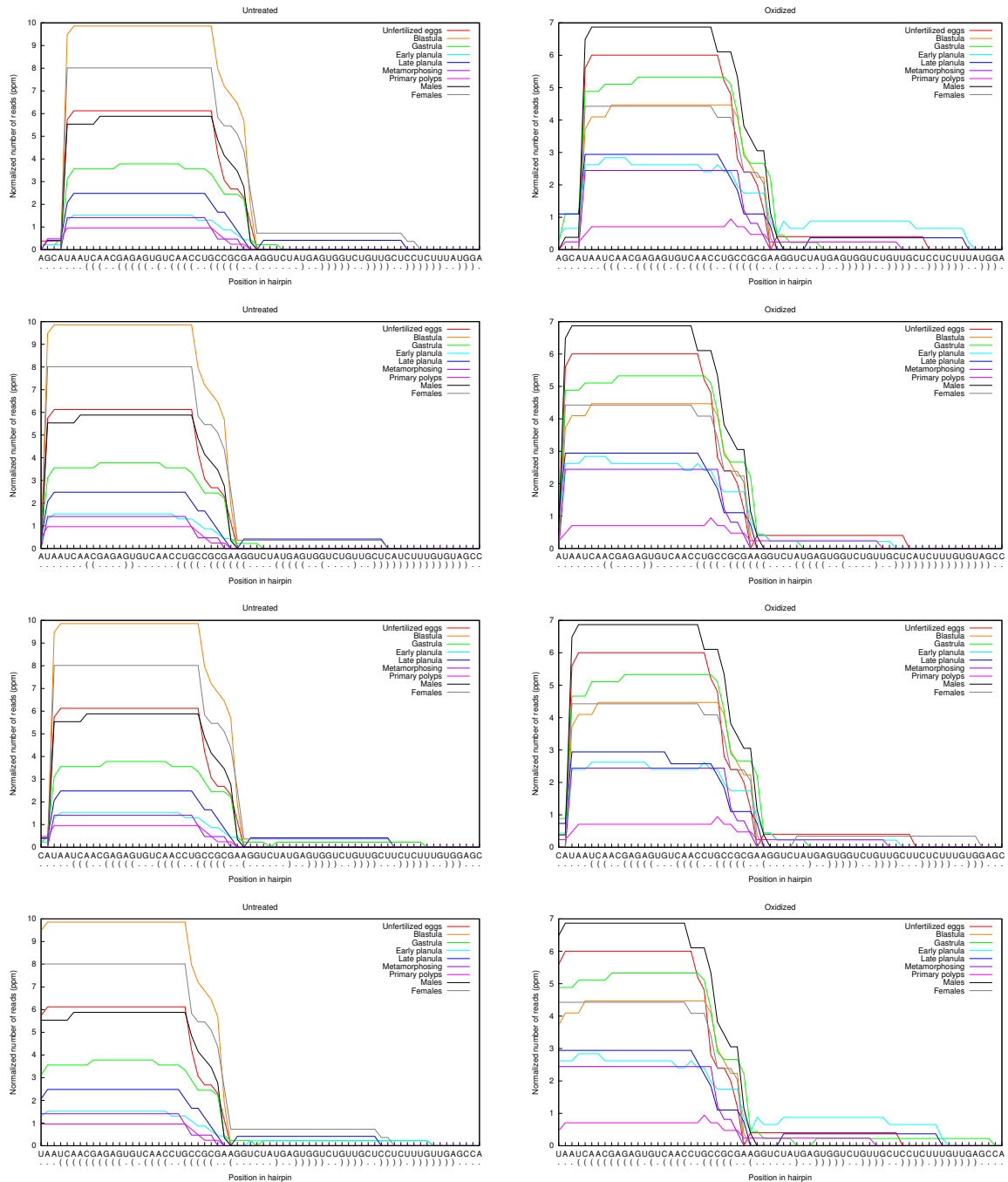
54 Candidate ATACTACACAAGTGTCTCGATT, cumulated abundance=215 reads (*novel pre-miRNA: pre-nve-mir-9438*)



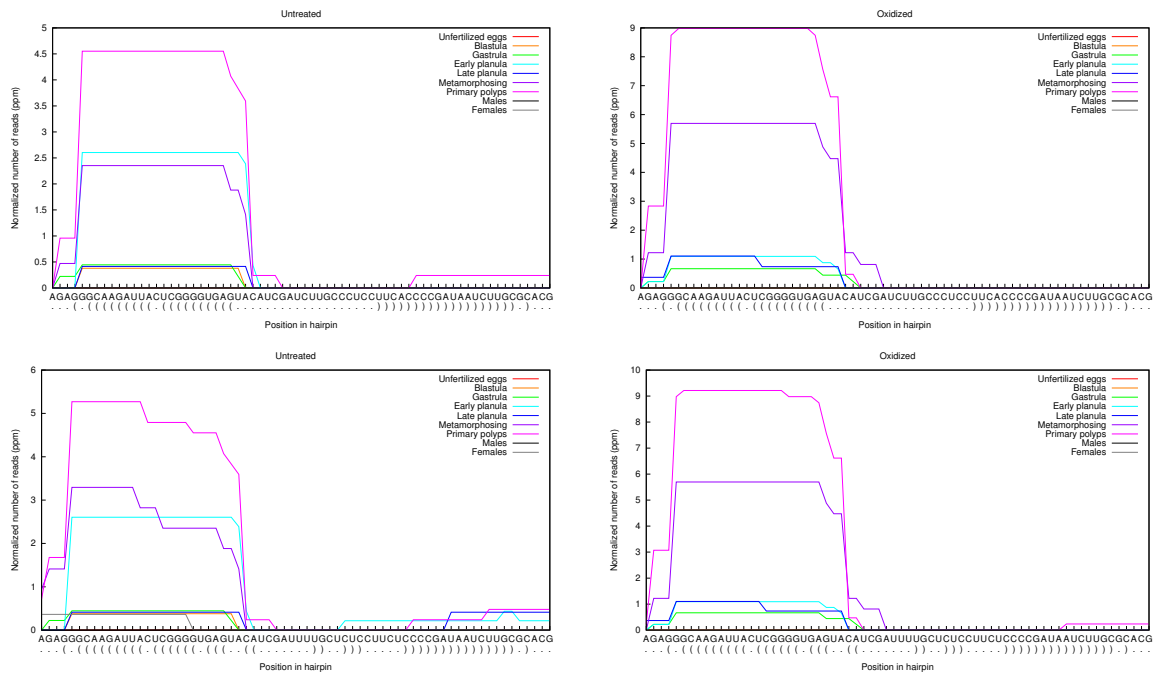
55 Candidate TTTAAGCACAGTGCTGGTCT, cumulated abundance=263 reads (*novel pre-miRNA: pre-nve-mir-9439*)



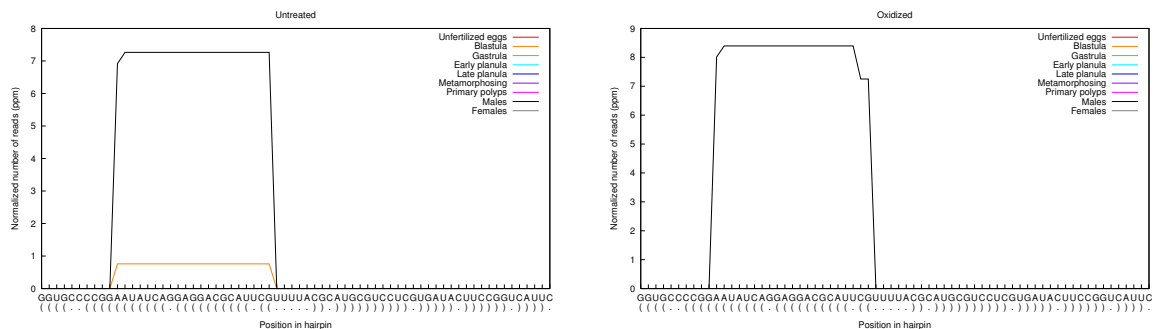
56 Candidate TAATCAACGAGAGTGTCAACCTG, cumulated abundance=205 reads (*novel pre-miRNA: pre-nve-mir-9440*)



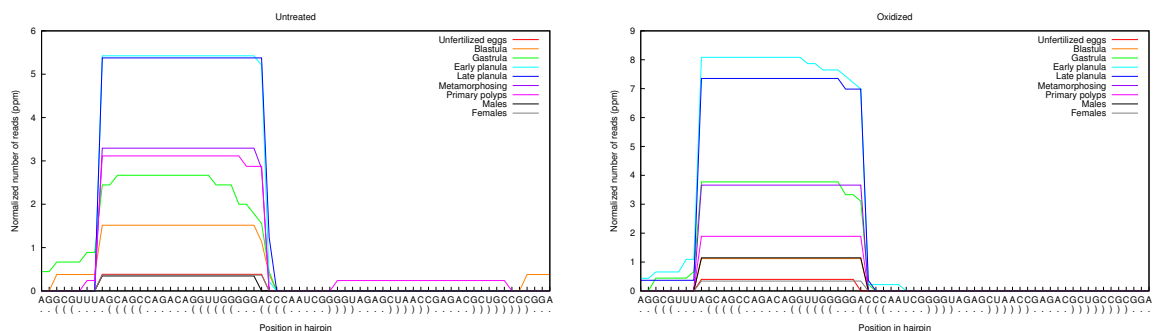
57 Candidate GGCAAGATTACTCGGGGTGAG, cumulated abundance=172 reads (*novel pre-miRNA: pre-nve-mir-9441*)



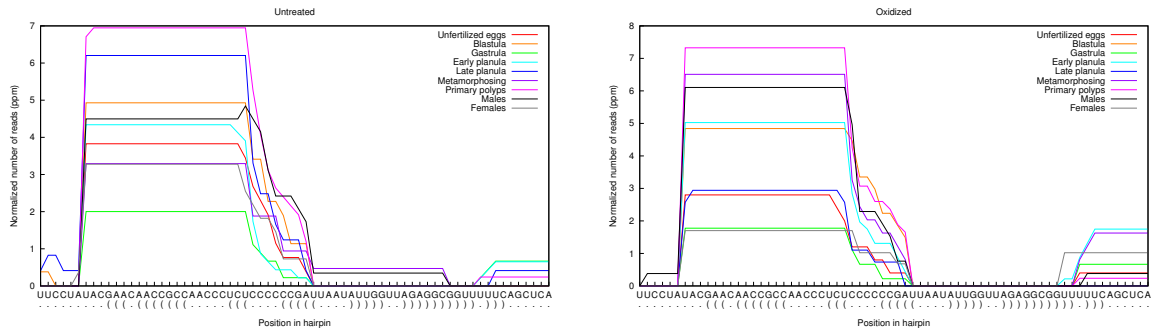
58 Candidate AATATCAGGAGGACGCATTCG, cumulated abundance=40 reads (*novel pre-miRNA: pre-nve-mir-9442*)



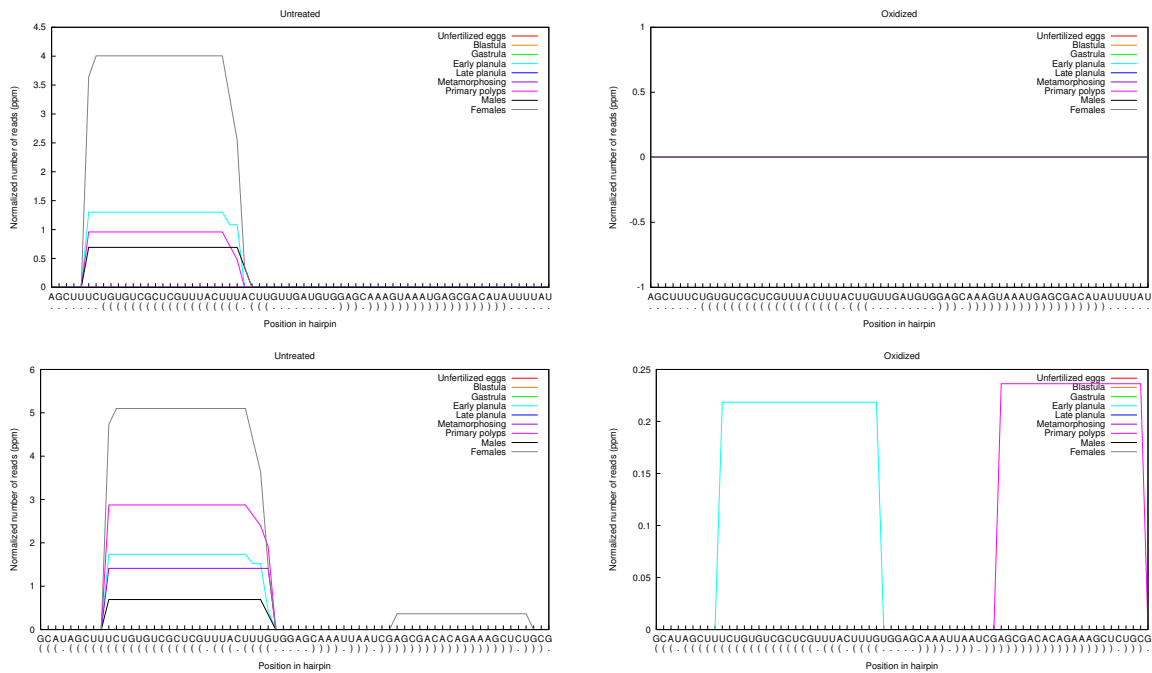
59 Candidate AGCAGCCAGACAGGTTGG, cumulated abundance=172 reads (*novel pre-miRNA: pre-nve-mir-9443*)



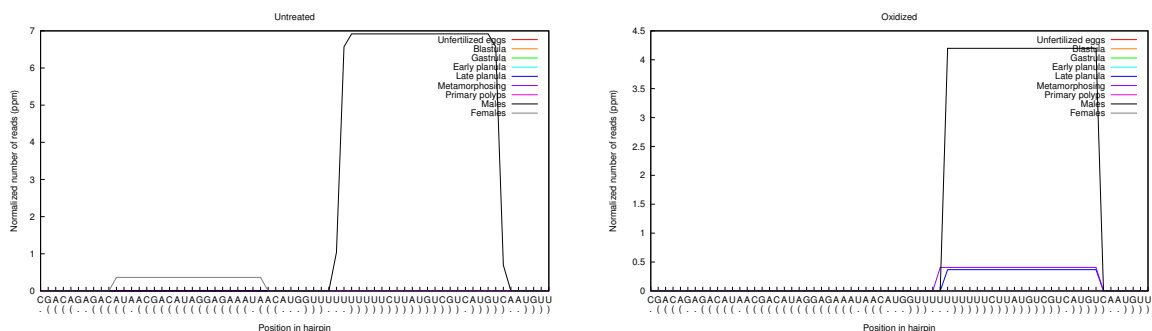
60 Candidate TACGAACAACCGCCAACCCTCT, cumulated abundance=283 reads (*novel pre-miRNA: pre-nve-mir-9444*)



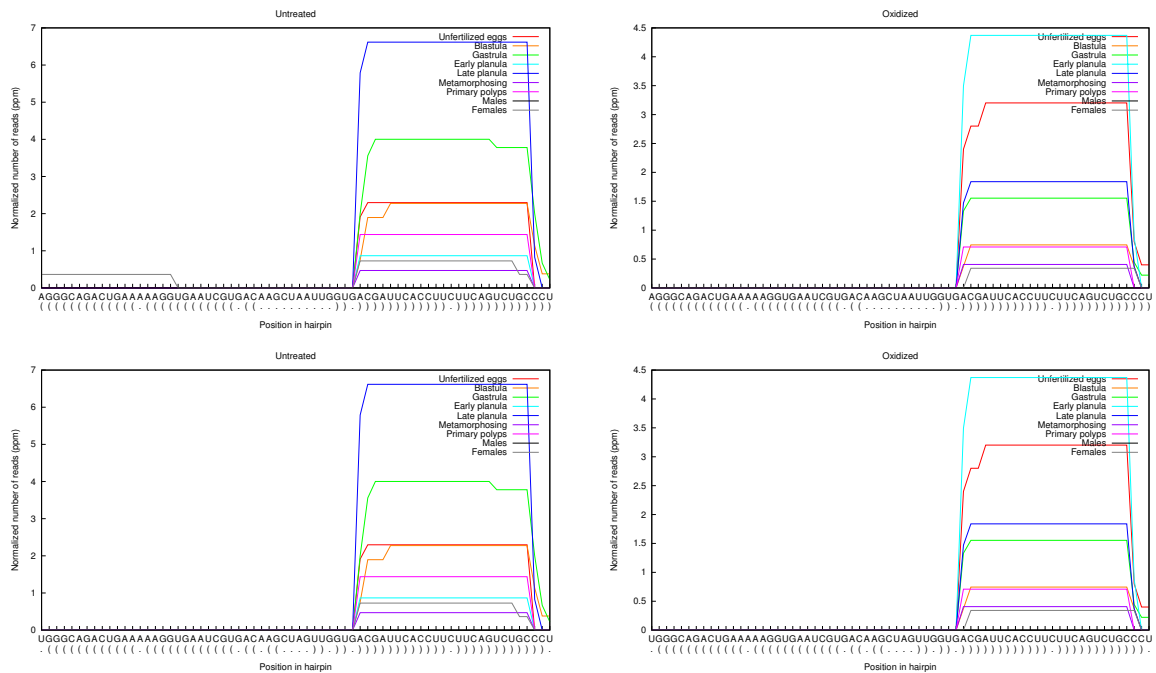
61 Candidate TCTGTGTCGCTCGTTTACTT, cumulated abundance=85 reads (*novel pre-miRNA: pre-nve-mir-9445*)



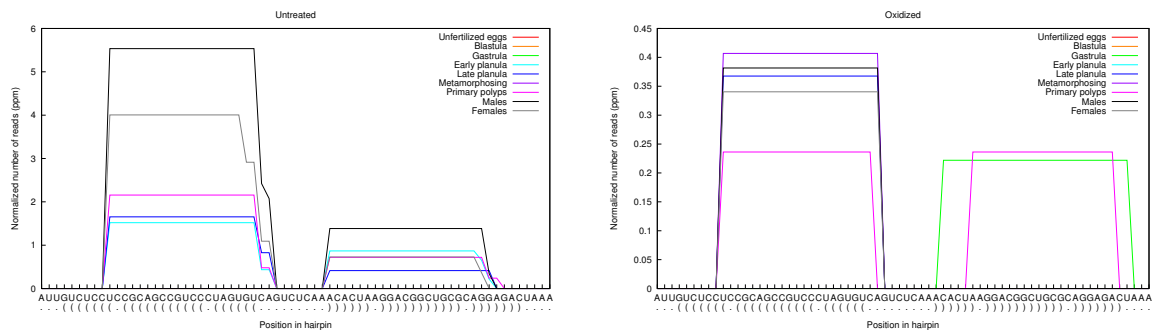
62 Candidate TTTTTTCTTATGTCGTCATGT, cumulated abundance=31 reads (*novel pre-miRNA: pre-nve-mir-9446*)



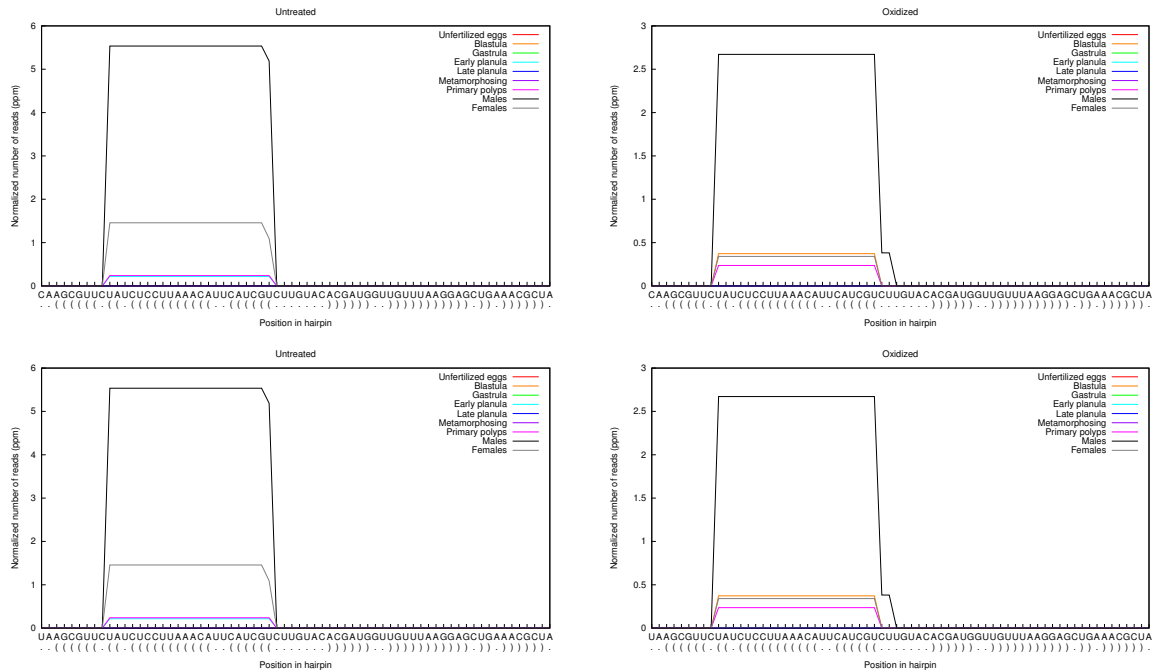
63 Candidate CGATTCACCTTCTTCAGTCTGC, cumulated abundance=135 reads (*novel pre-miRNA: pre-nve-mir-9447*)



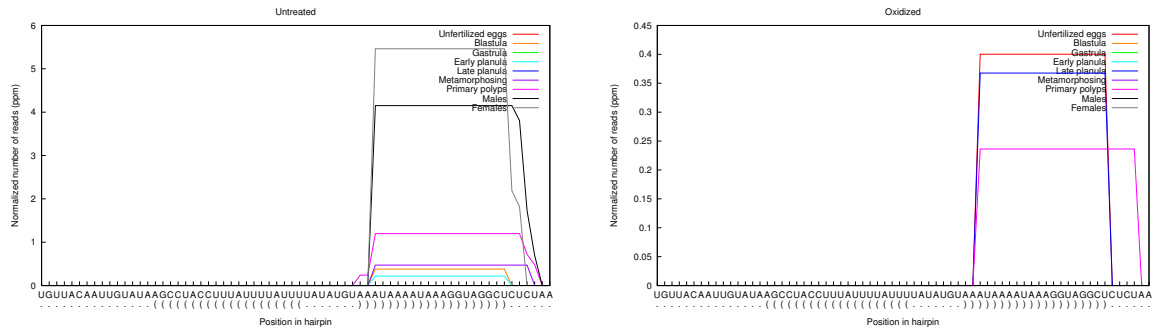
64 Candidate TCCGCAGCCGTCCCTAGT, cumulated abundance=52 reads (*novel pre-miRNA: pre-nve-mir-9448*)



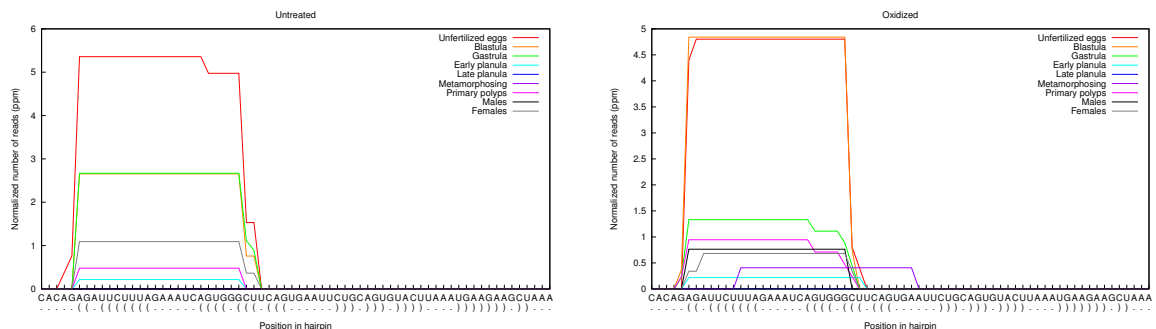
65 Candidate TATCTCCTTAAACATTCATCGT, cumulated abundance=30 reads (*novel pre-miRNA: pre-nve-mir-9449*)



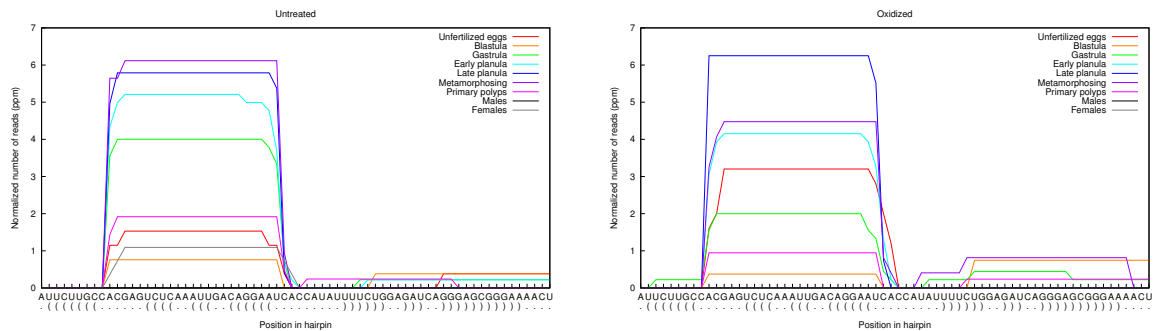
66 Candidate ATAAAATAAAGGTAGGCT, cumulated abundance=39 reads (*known pre-miRNA: pre-nve-mir-2039*)



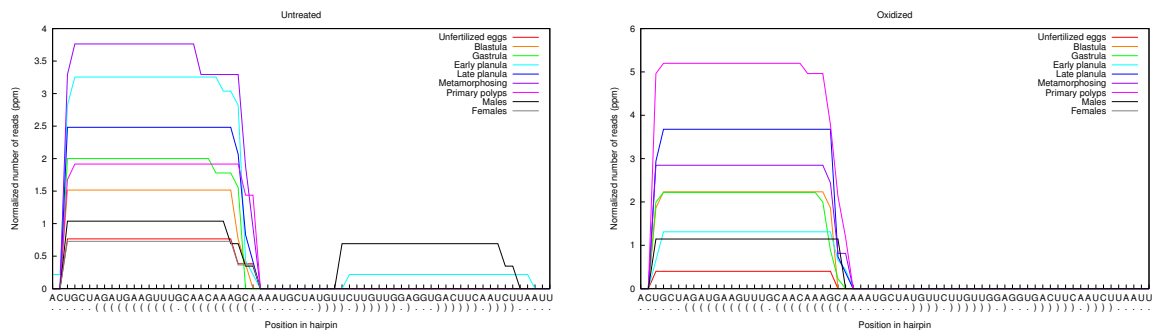
67 Candidate AGATTCTTTAGAAATCAGTGGG, cumulated abundance=80 reads (*novel pre-miRNA: pre-nve-mir-9450*)



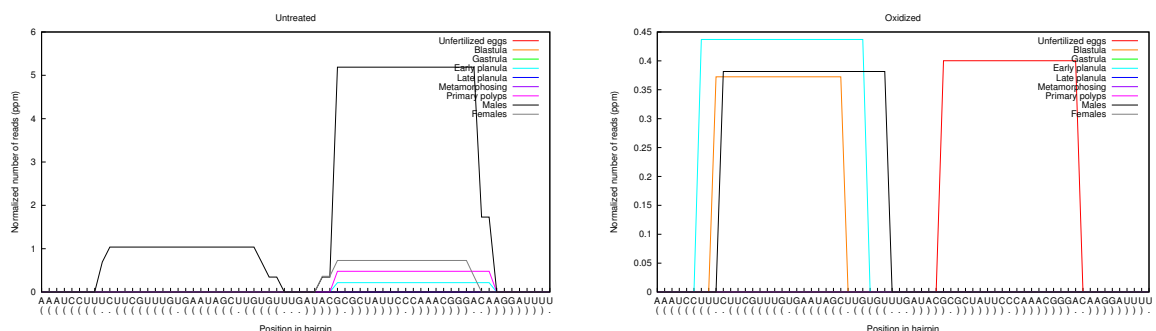
68 Candidate ACGAGTCTCAAATTGACAGGAA, cumulated abundance=150 reads (*novel pre-miRNA: pre-nve-mir-9451*)



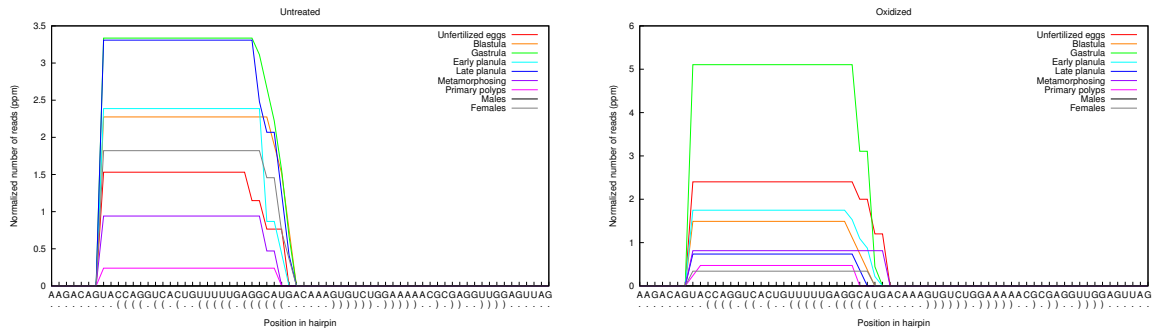
69 Candidate TGCTAGATGAAGTTTGCAACAAA, cumulated abundance=265 reads (*novel pre-miRNA: pre-nve-mir-9452*)



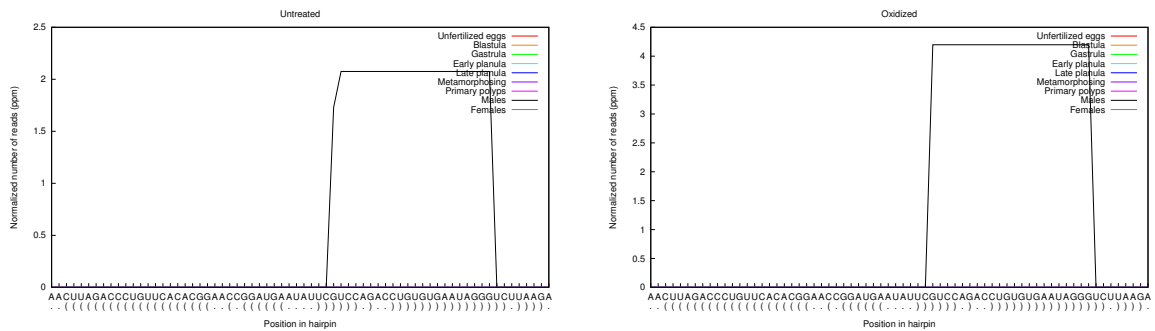
70 Candidate GCGCTATTCCCAAACGGGA, cumulated abundance=20 reads (*novel pre-miRNA: pre-nve-mir-9453*)



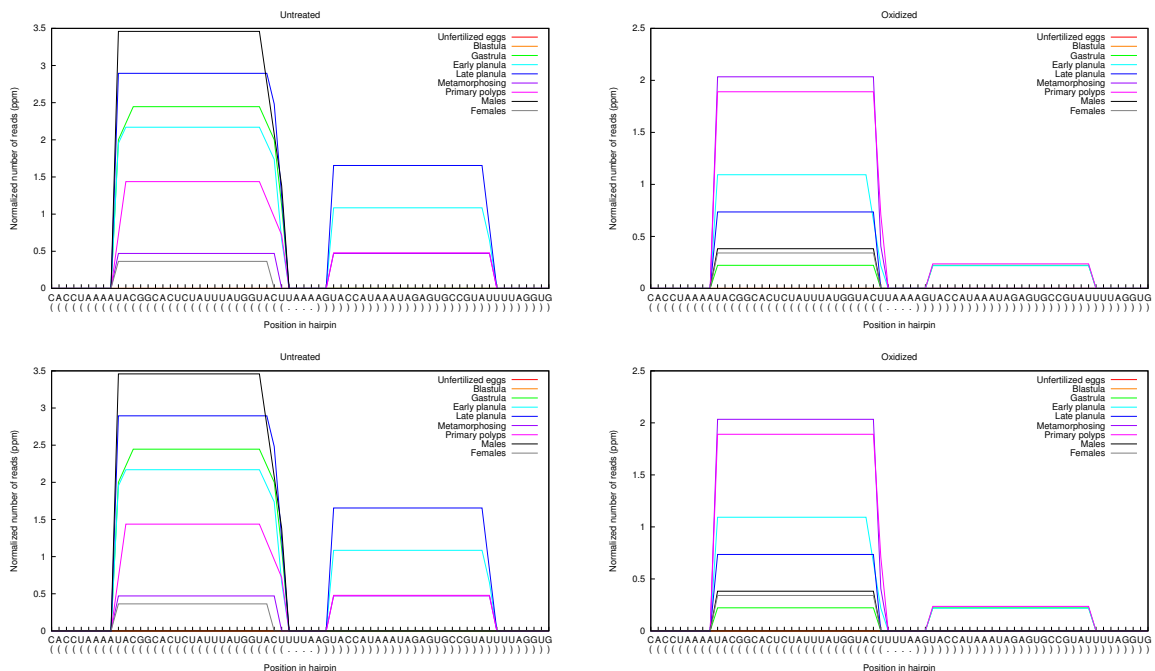
71 Candidate TACCAGGTCACCTGTTTTTGGAGG, cumulated abundance=177 reads (*novel pre-miRNA: pre-nve-mir-9454*)



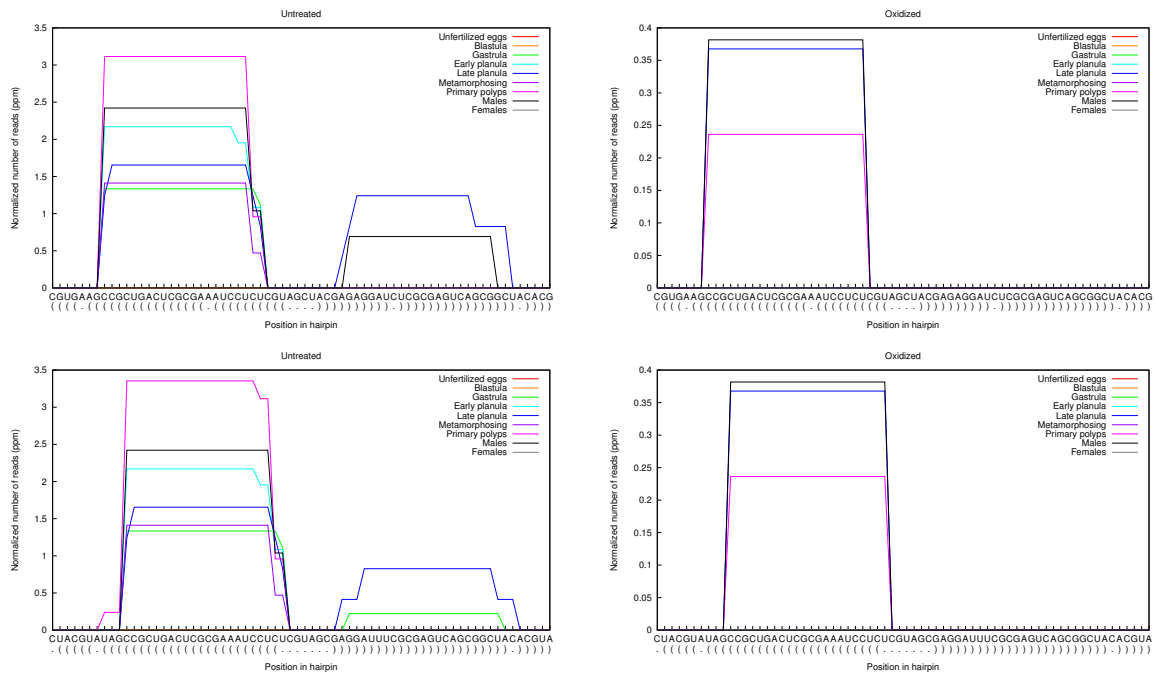
72 Candidate GTCCAGACCTGTGTGAATAGGG, cumulated abundance=16 reads (*novel pre-miRNA: pre-nve-mir-9455*)



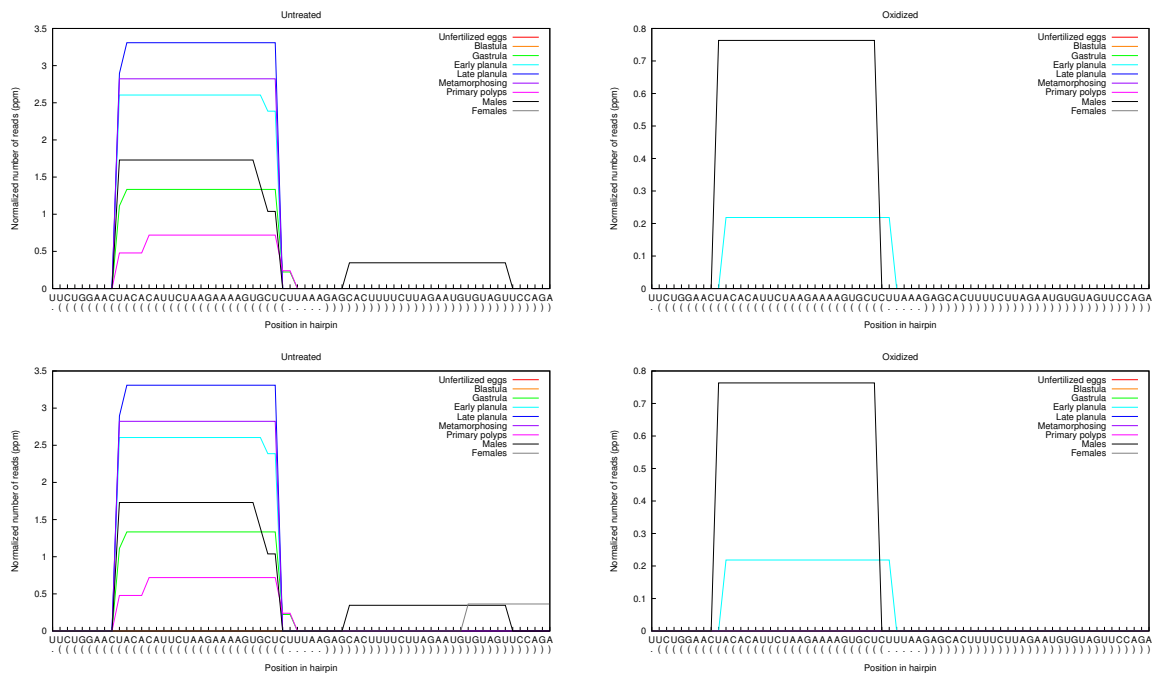
73 Candidate TACGGCACTCTATTTATGGTA, cumulated abundance=59 reads (*known pre-miRNA: pre-nve-mir-2031*)



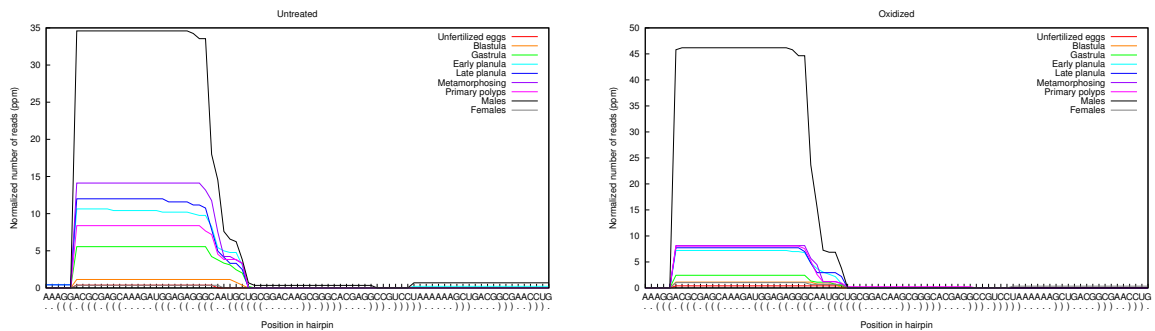
74 Candidate CCGCTGACTCGCGAAATCCT, cumulated abundance=44 reads (*novel pre-miRNA: pre-nve-mir-9456*)



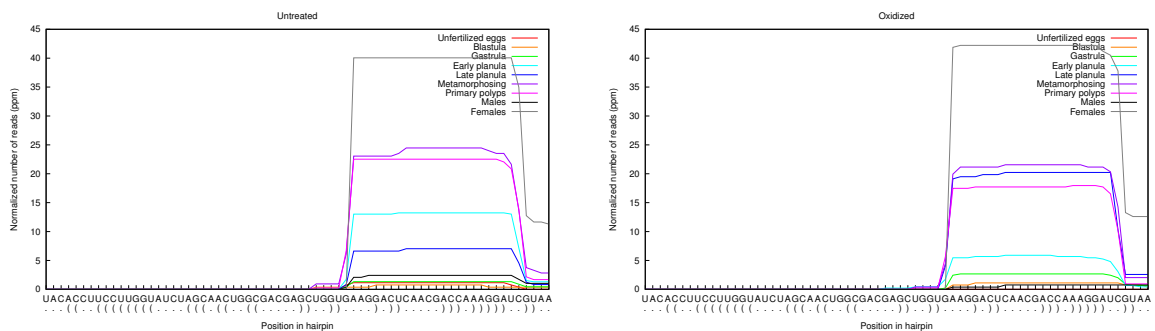
75 Candidate TACACATTCTAAGAAAAGTGCT, cumulated abundance=36 reads (*novel pre-miRNA: pre-nve-mir-9457*)



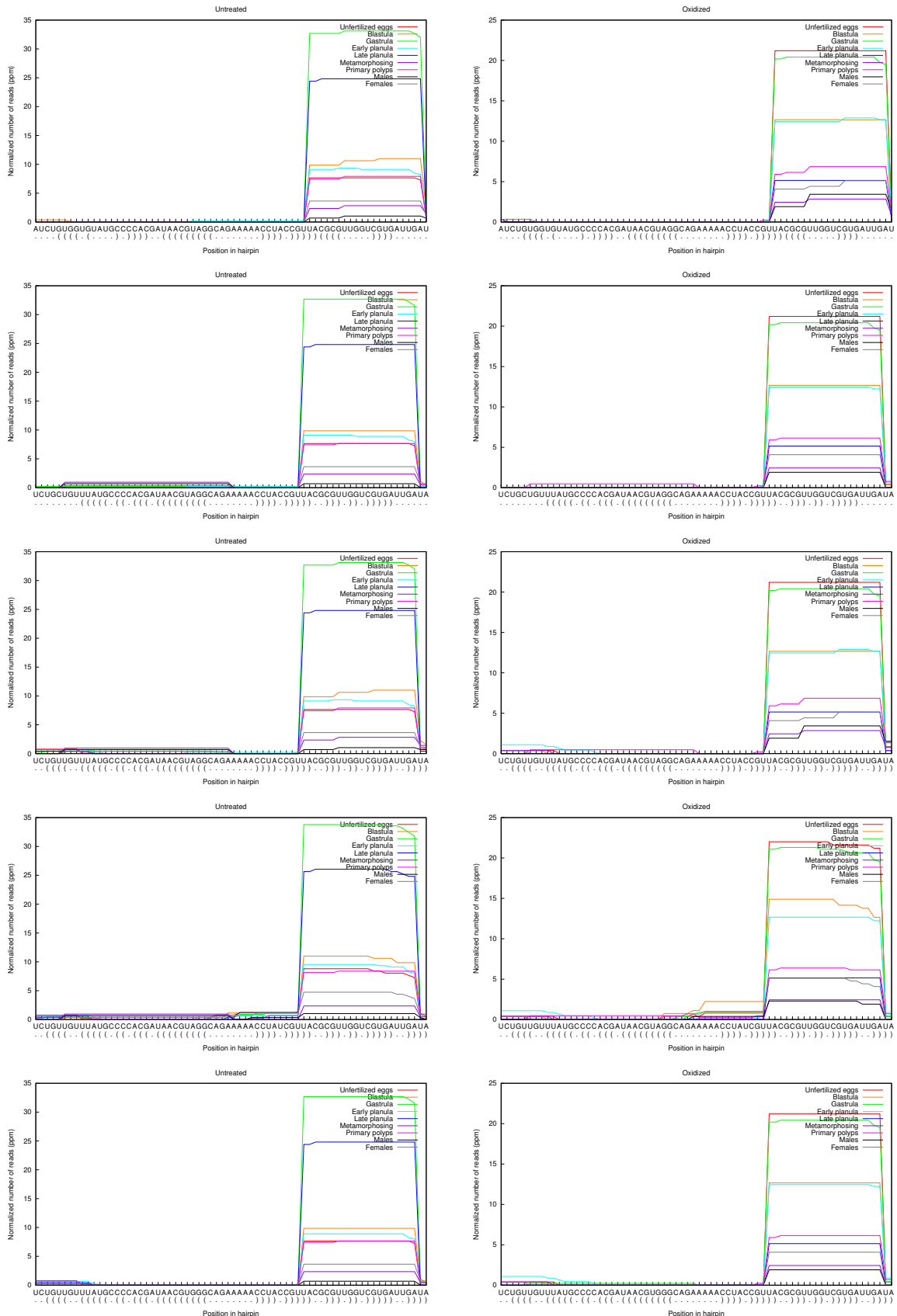
76 Candidate ACGCGAGCAAAGATGGAGAGGG, cumulated abundance=494 reads (*novel pre-miRNA: pre-nve-mir-9458*)



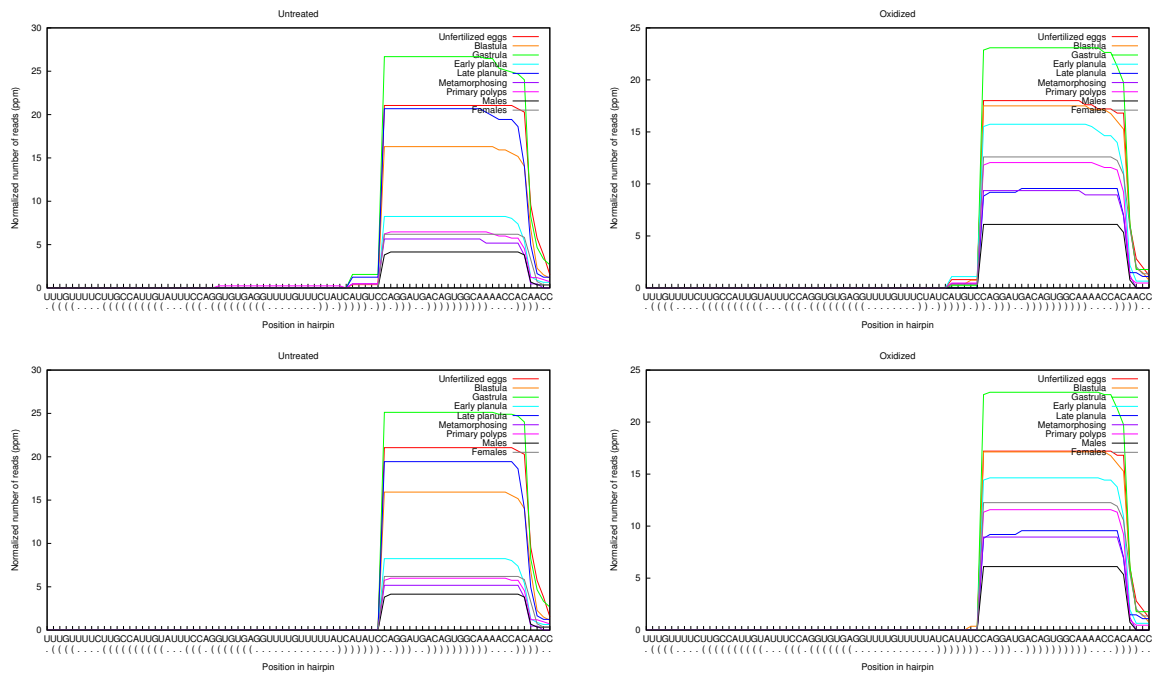
77 Candidate AAGGACTCAACGACCAAAGGAT, cumulated abundance=646 reads (*novel pre-miRNA: pre-nve-mir-9459*)



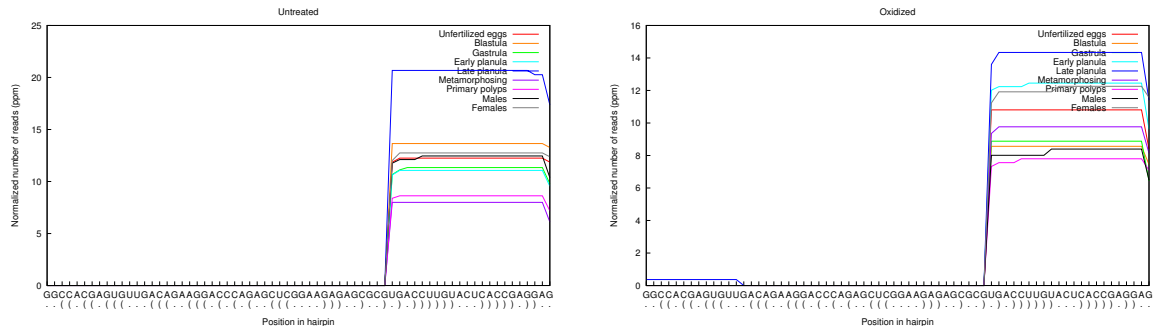
78 Candidate TACGCGTTGGTCGTGATTGA, cumulated abundance=1,296 reads (*novel pre-miRNA: pre-nve-mir-9460*)



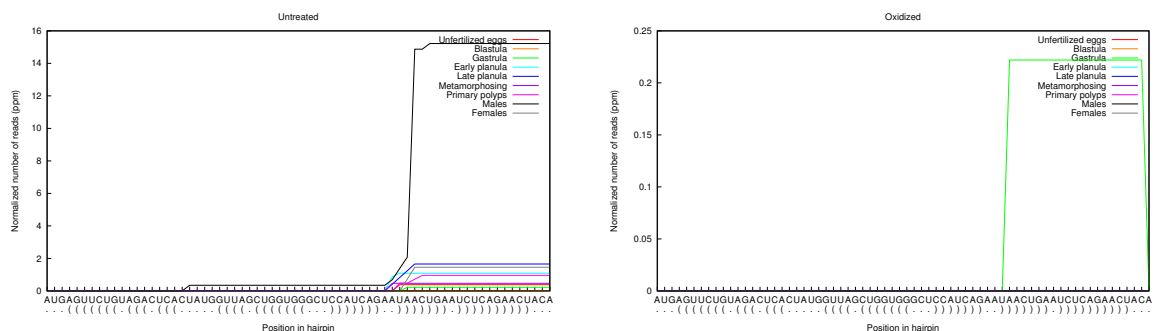
79 Candidate CAGGATGACAGTGGCAAAACCA, cumulated abundance=753 reads (*novel pre-miRNA: pre-nve-mir-9461*)



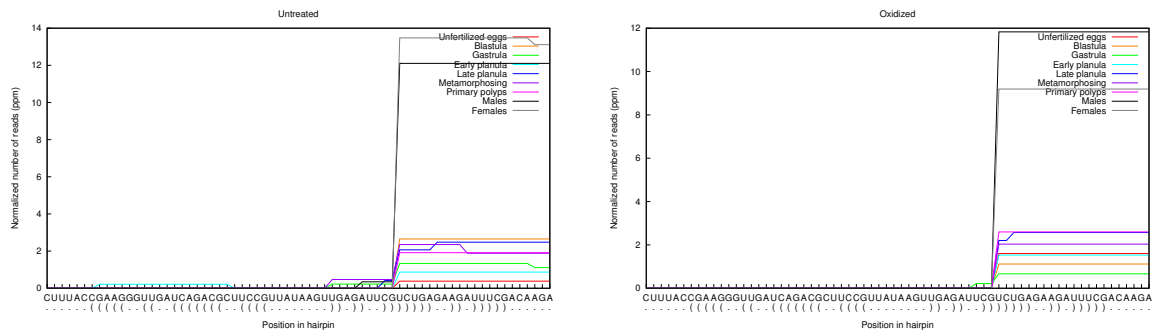
80 Candidate TGACCTTGTACTCACCGAGGA, cumulated abundance=634 reads (*novel pre-miRNA: pre-nve-mir-9462*)



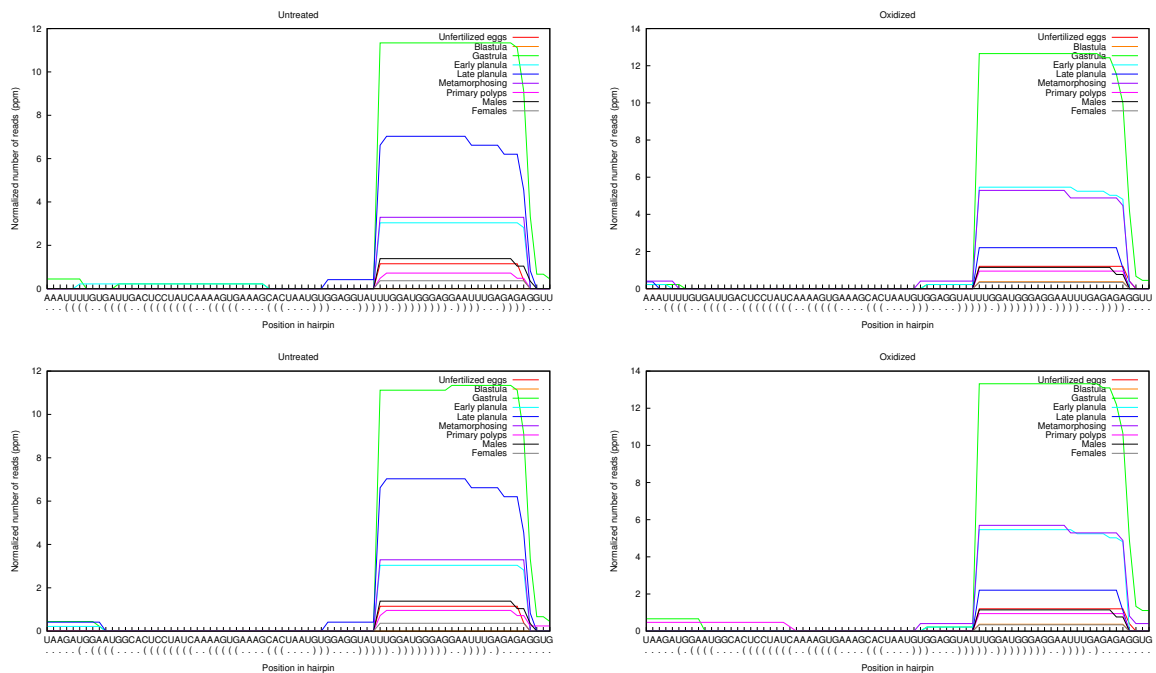
81 Candidate ACTGAATCTCAGAACTACAGTT, cumulated abundance=60 reads (*novel pre-miRNA: pre-nve-mir-9463*)



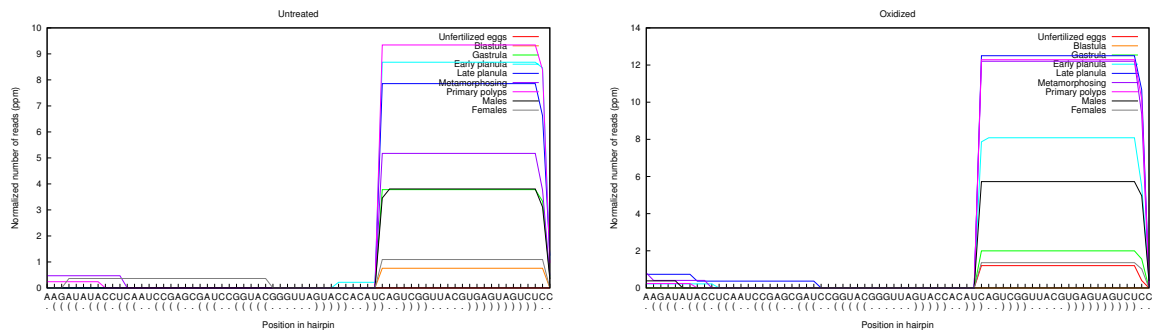
82 Candidate TCTGAGAAGATTTCGACAAGAAAC, cumulated abundance=228 reads (*novel pre-miRNA: pre-nve-mir-9464*)



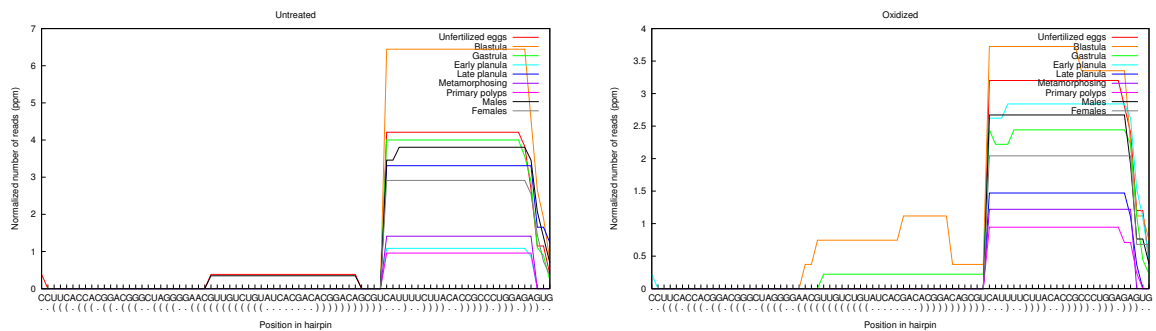
83 Candidate TTGGATGGGAGGAATTTGAGAG, cumulated abundance=206 reads (*novel pre-miRNA: pre-nve-mir-9465*)



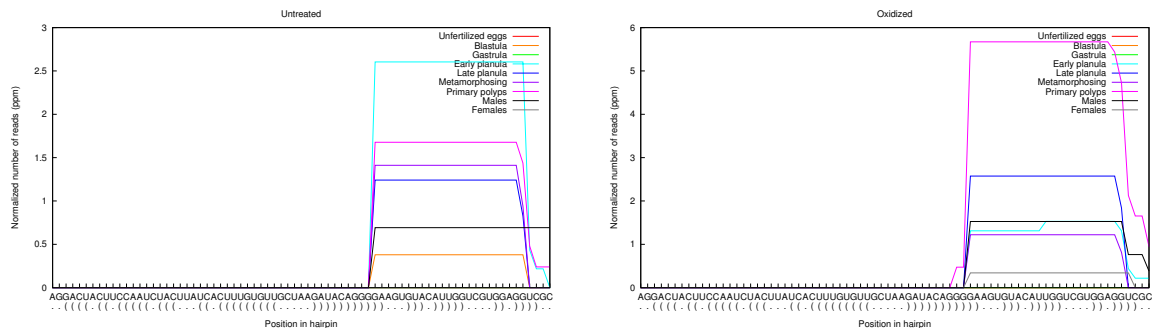
84 Candidate CAGTCGGTTACGTGAGTAGTCT, cumulated abundance=389 reads (*novel pre-miRNA: pre-nve-mir-9466*)



85 Candidate CATTTTCTTACACCGCCCTGGAG, cumulated abundance=142 reads (*novel pre-miRNA: pre-nve-mir-9467*)



86 Candidate GAAGTGTACATTGGTCGTGGAGG, cumulated abundance=62 reads (*novel pre-miRNA: pre-nve-mir-9468*)



87 Candidate TTTGCTAGTTGCTTTTGTCCCGC, cumulated abundance=9,120 reads (*known pre-miRNA: pre-nve-mir-2022*)

