

miRNA targets

Ping Chen

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Abstract

This document is generated by Anduril [\[1\]](#) (Engine 1.2.0) and it provides a human readable summary for the network outputs.

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1 hsa-mir-106b down-regulate ENSG00000141503

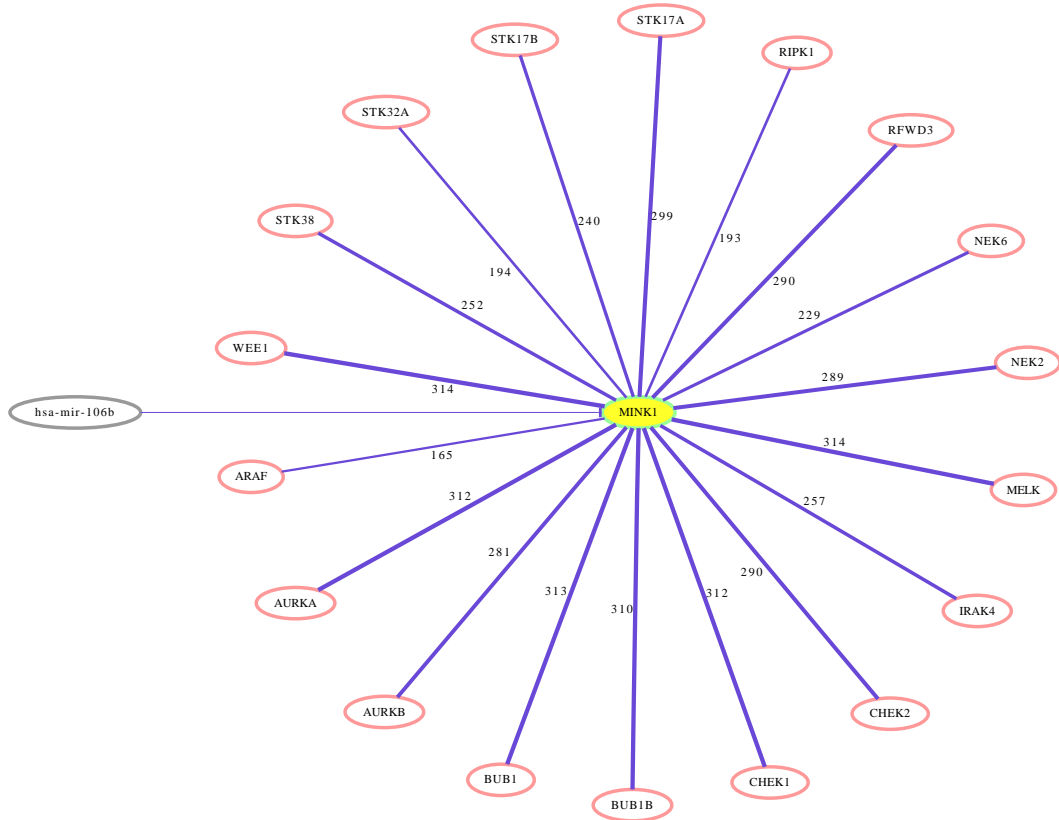


Figure 1: Enzyme pairs. Up or down regulated genes are in red or green. Enzyme pair frequencies are displayed on edges. Nodes filled with orange or yellow are validated or predicted miRNA targets in databases.

2 hsa-mir-106b down-regulate ENSG00000153233

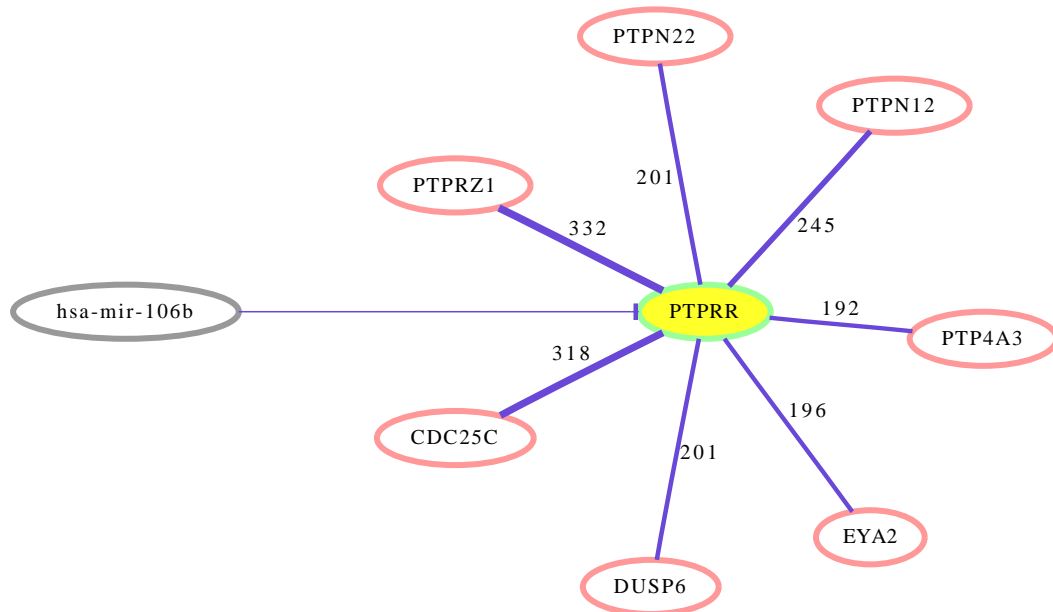


Figure 2: Enzyme pairs. Up or down regulated genes are in red or green. Enzyme pair frequencies are displayed on edges. Nodes filled with orange or yellow are validated or predicted miRNA targets in databases.

3 hsa-mir-142-5p down-regulate ENSG00000088179

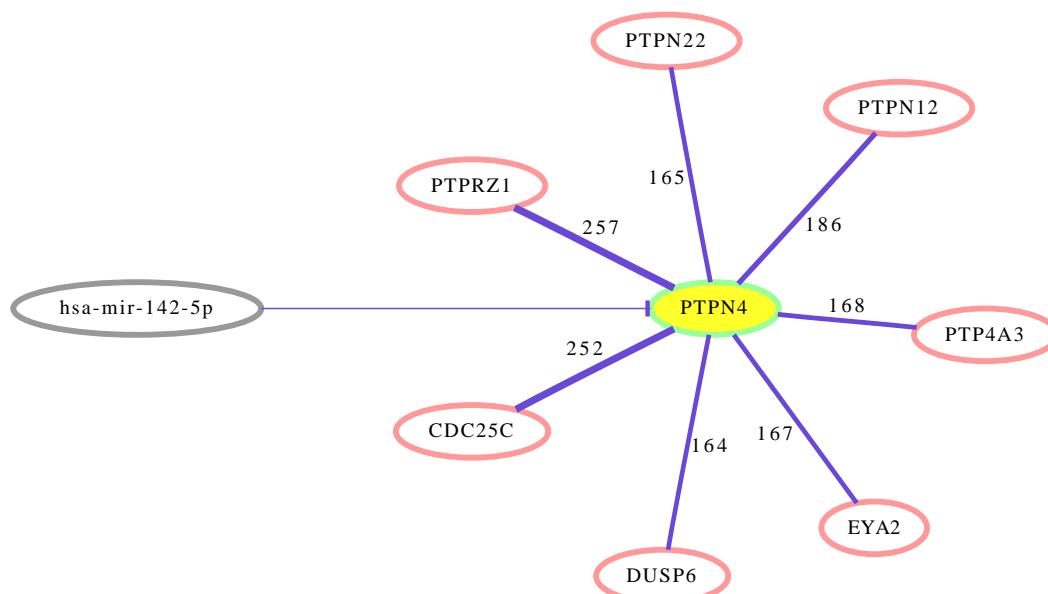


Figure 3: Enzyme pairs. Up or down regulated genes are in red or green. Enzyme pair frequencies are displayed on edges. Nodes filled with orange or yellow are validated or predicted miRNA targets in databases.

4 hsa-mir-152 down-regulate ENSG00000077264

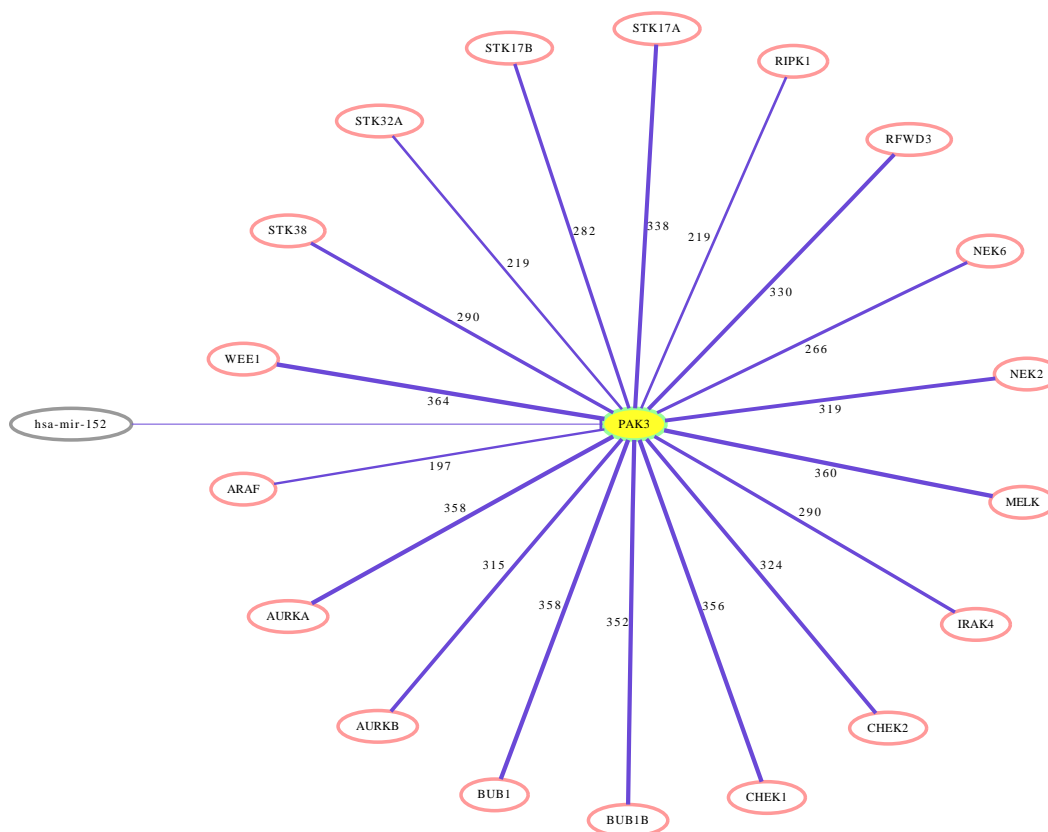


Figure 4: Enzyme pairs. Up or down regulated genes are in red or green. Enzyme pair frequencies are displayed on edges. Nodes filled with orange or yellow are validated or predicted miRNA targets in databases.

5 hsa-mir-155 down-regulate ENSG0000002746

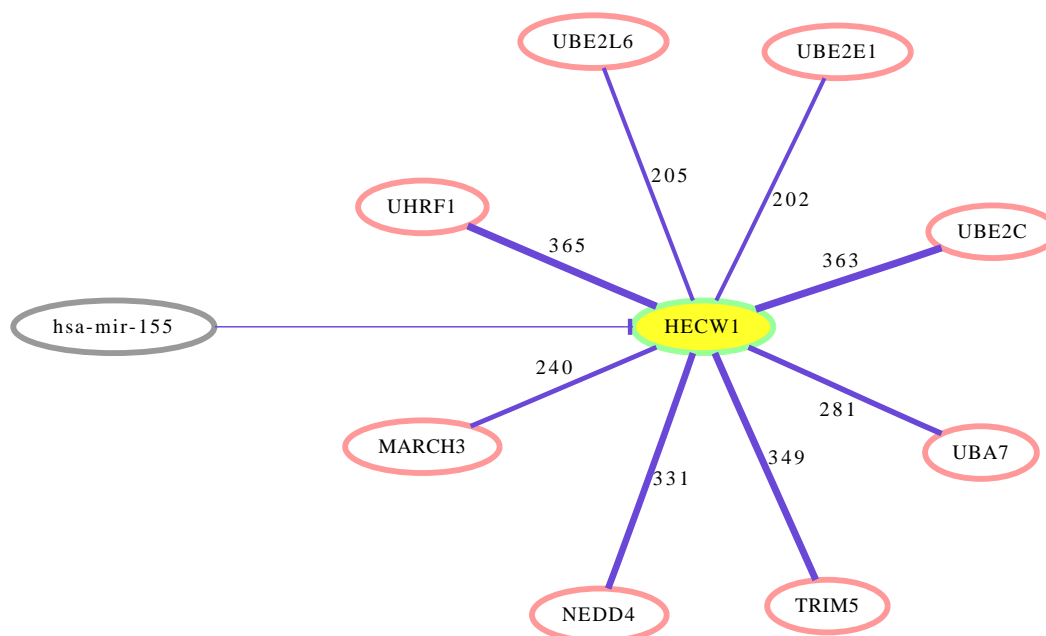


Figure 5: Enzyme pairs. Up or down regulated genes are in red or green. Enzyme pair frequencies are displayed on edges. Nodes filled with orange or yellow are validated or predicted miRNA targets in databases.

6 hsa-mir-155 down-regulate ENSG00000067606

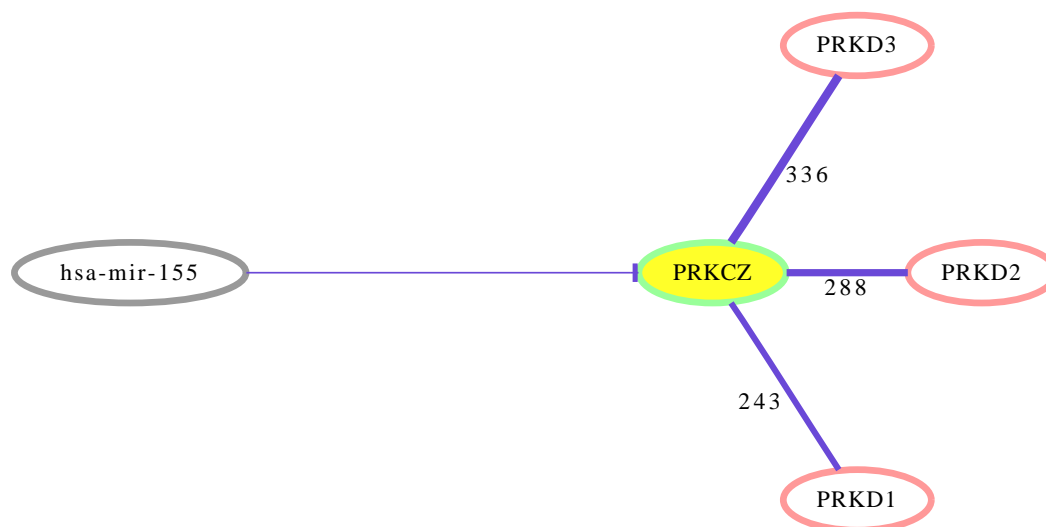


Figure 6: Enzyme pairs. Up or down regulated genes are in red or green. Enzyme pair frequencies are displayed on edges. Nodes filled with orange or yellow are validated or predicted miRNA targets in databases.

7 hsa-mir-155 down-regulate ENSG00000077264

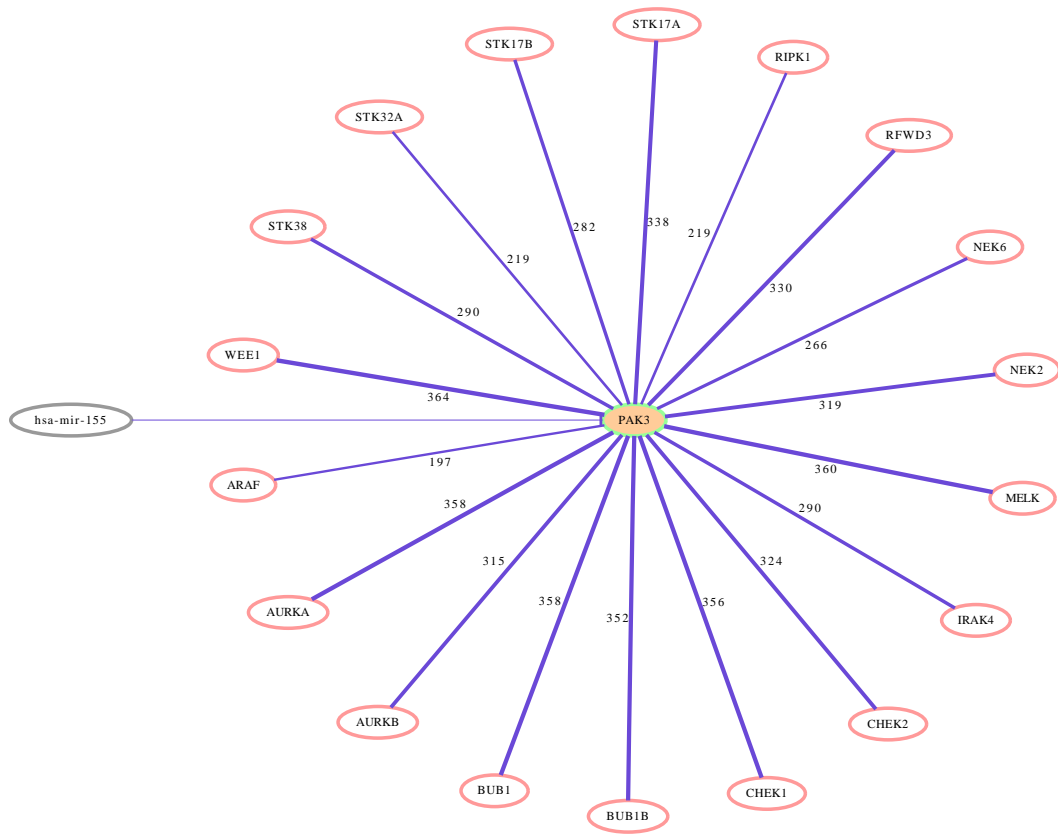


Figure 7: Enzyme pairs. Up or down regulated genes are in red or green. Enzyme pair frequencies are displayed on edges. Nodes filled with orange or yellow are validated or predicted miRNA targets in databases.

8 hsa-mir-155 down-regulate ENSG00000101349

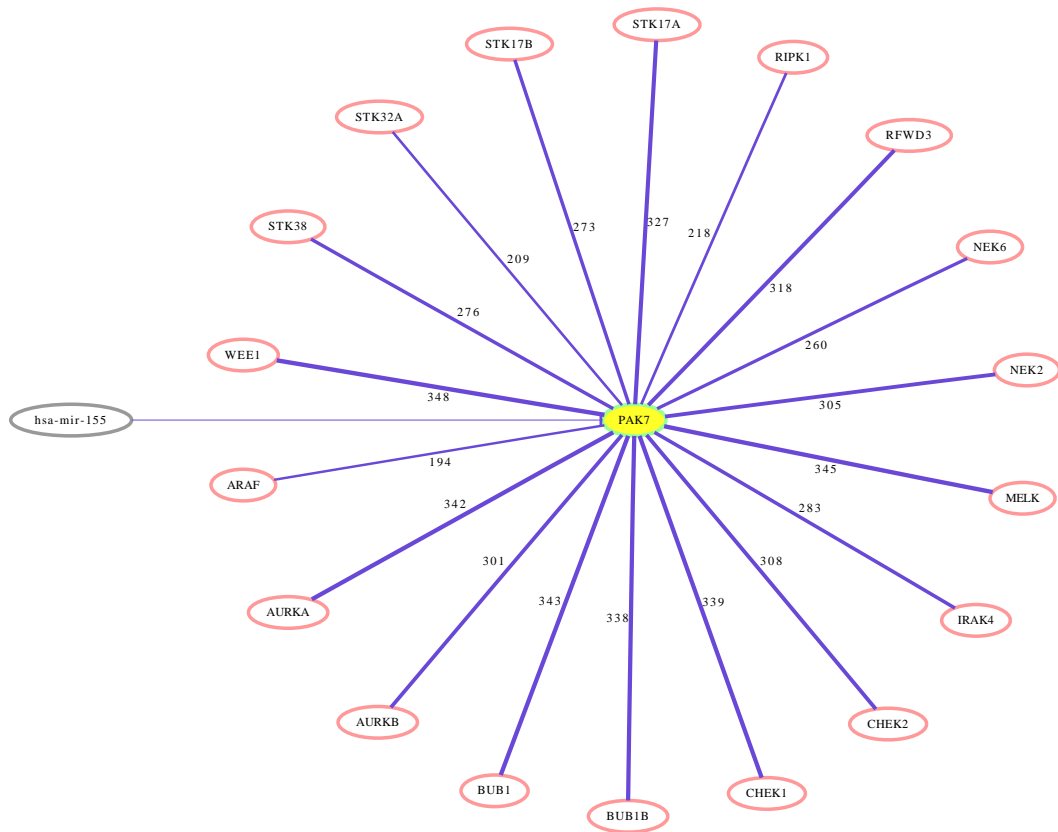


Figure 8: Enzyme pairs. Up or down regulated genes are in red or green. Enzyme pair frequencies are displayed on edges. Nodes filled with orange or yellow are validated or predicted miRNA targets in databases.

9 hsa-mir-155 down-regulate ENSG00000154914

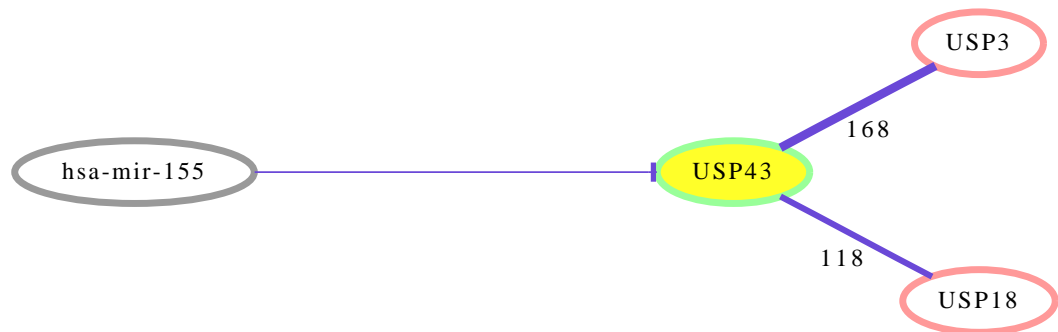


Figure 9: Enzyme pairs. Up or down regulated genes are in red or green. Enzyme pair frequencies are displayed on edges. Nodes filled with orange or yellow are validated or predicted miRNA targets in databases.

10 hsa-mir-15b down-regulate ENSG00000153233

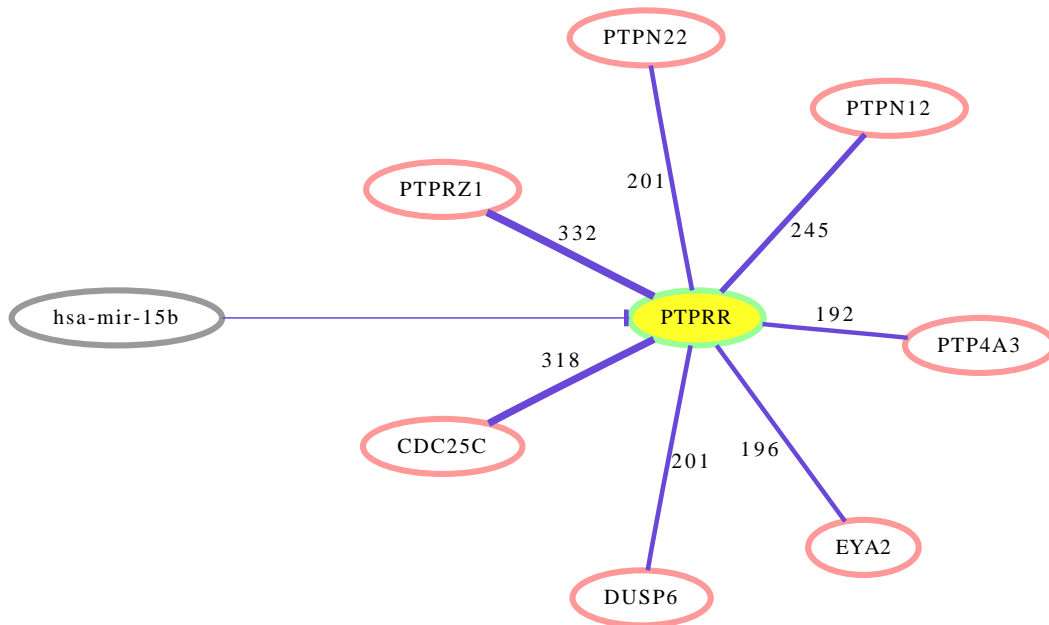


Figure 10: Enzyme pairs. Up or down regulated genes are in red or green. Enzyme pair frequencies are displayed on edges. Nodes filled with orange or yellow are validated or predicted miRNA targets in databases.

11 hsa-mir-19a down-regulate ENSG00000120899

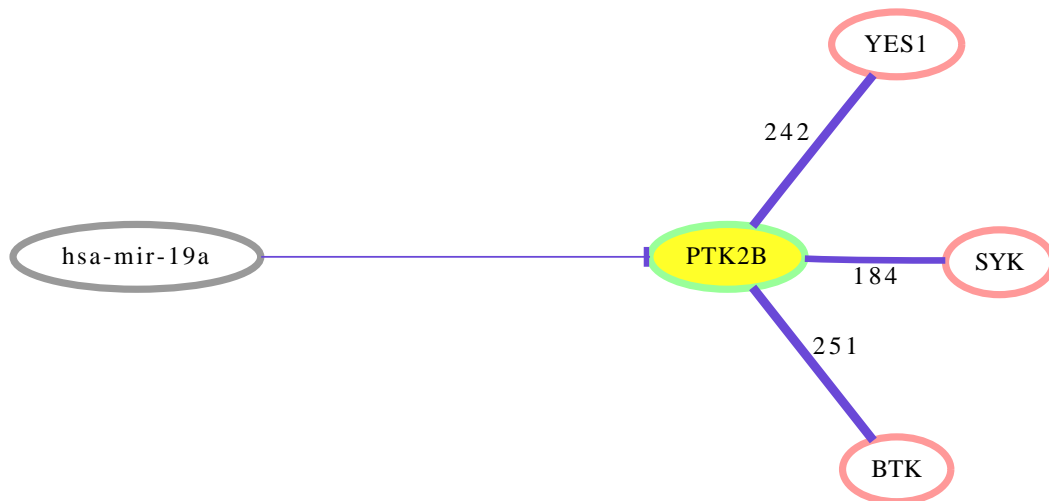


Figure 11: Enzyme pairs. Up or down regulated genes are in red or green. Enzyme pair frequencies are displayed on edges. Nodes filled with orange or yellow are validated or predicted miRNA targets in databases.

12 hsa-mir-19b down-regulate ENSG00000120899

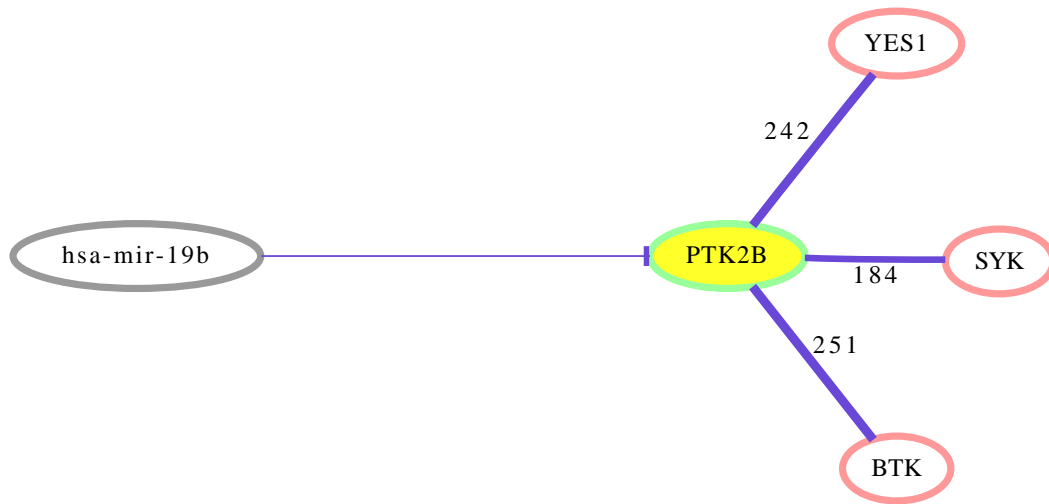


Figure 12: Enzyme pairs. Up or down regulated genes are in red or green. Enzyme pair frequencies are displayed on edges. Nodes filled with orange or yellow are validated or predicted miRNA targets in databases.

13 hsa-mir-21 down-regulate ENSG00000077264

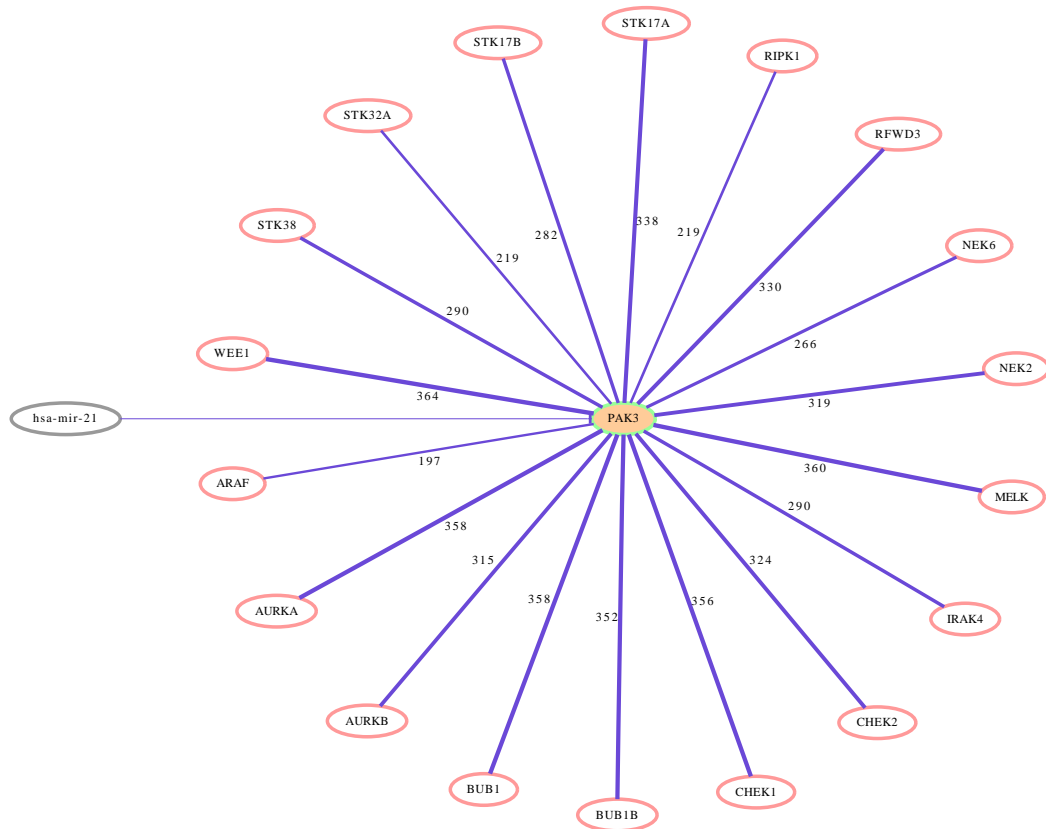


Figure 13: Enzyme pairs. Up or down regulated genes are in red or green. Enzyme pair frequencies are displayed on edges. Nodes filled with orange or yellow are validated or predicted miRNA targets in databases.

14 hsa-mir-21 down-regulate ENSG00000171132

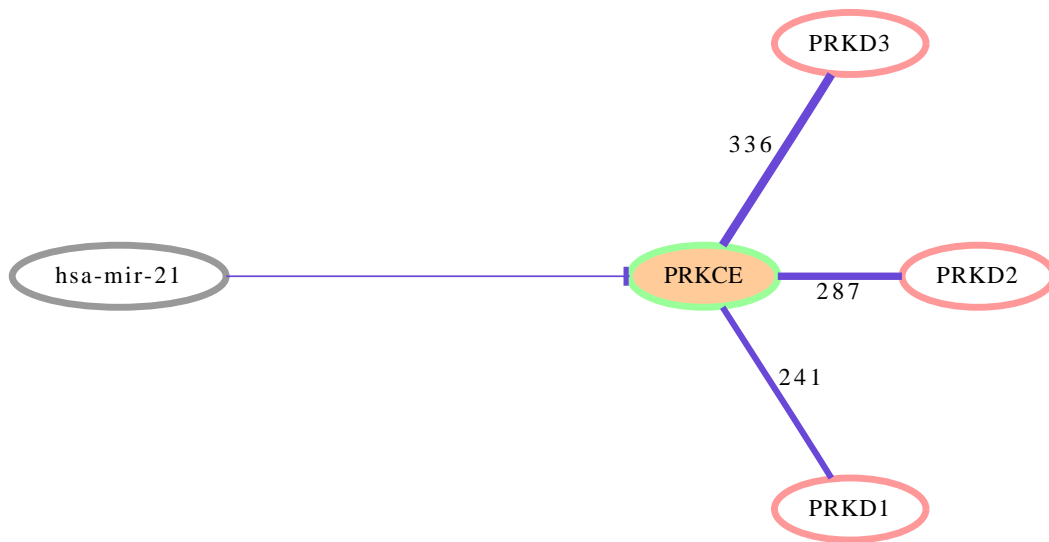


Figure 14: Enzyme pairs. Up or down regulated genes are in red or green. Enzyme pair frequencies are displayed on edges. Nodes filled with orange or yellow are validated or predicted miRNA targets in databases.

15 hsa-mir-21 down-regulate ENSG00000184545

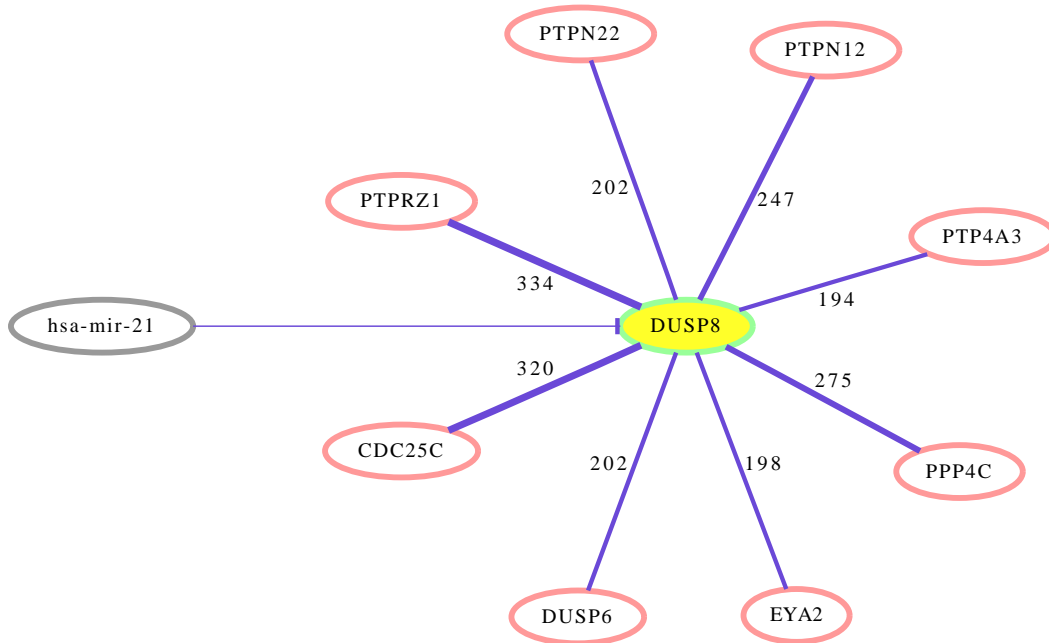


Figure 15: Enzyme pairs. Up or down regulated genes are in red or green. Enzyme pair frequencies are displayed on edges. Nodes filled with orange or yellow are validated or predicted miRNA targets in databases.

16 hsa-mir-210 down-regulate ENSG00000068383



Figure 16: Enzyme pairs. Up or down regulated genes are in red or green. Enzyme pair frequencies are displayed on edges. Nodes filled with orange or yellow are validated or predicted miRNA targets in databases.

17 hsa-mir-210 down-regulate ENSG00000110786

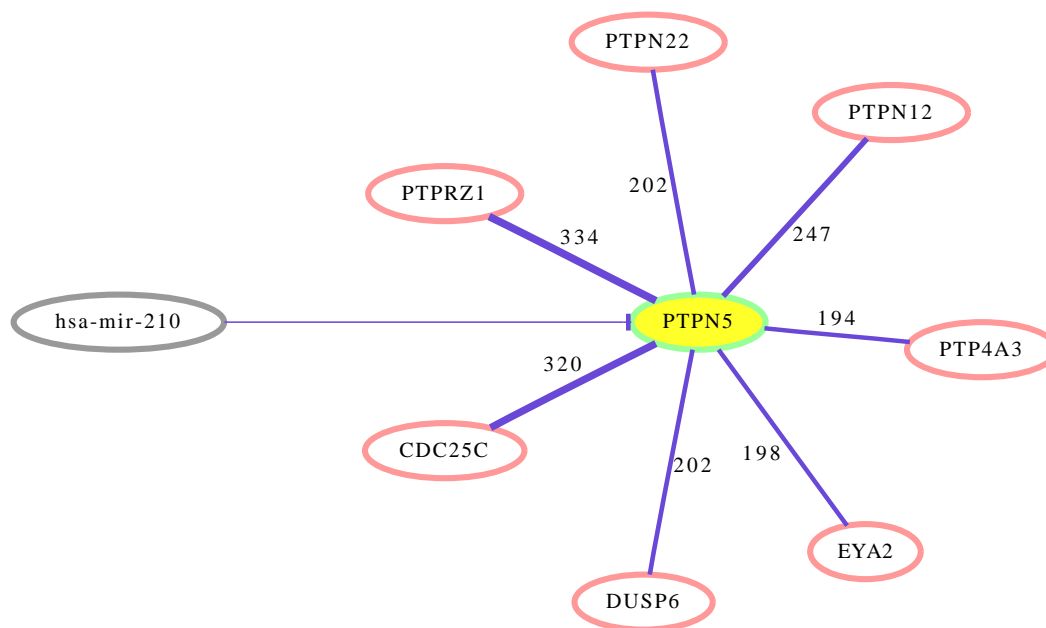


Figure 17: Enzyme pairs. Up or down regulated genes are in red or green. Enzyme pair frequencies are displayed on edges. Nodes filled with orange or yellow are validated or predicted miRNA targets in databases.

18 hsa-mir-23a down-regulate ENSG00000008086

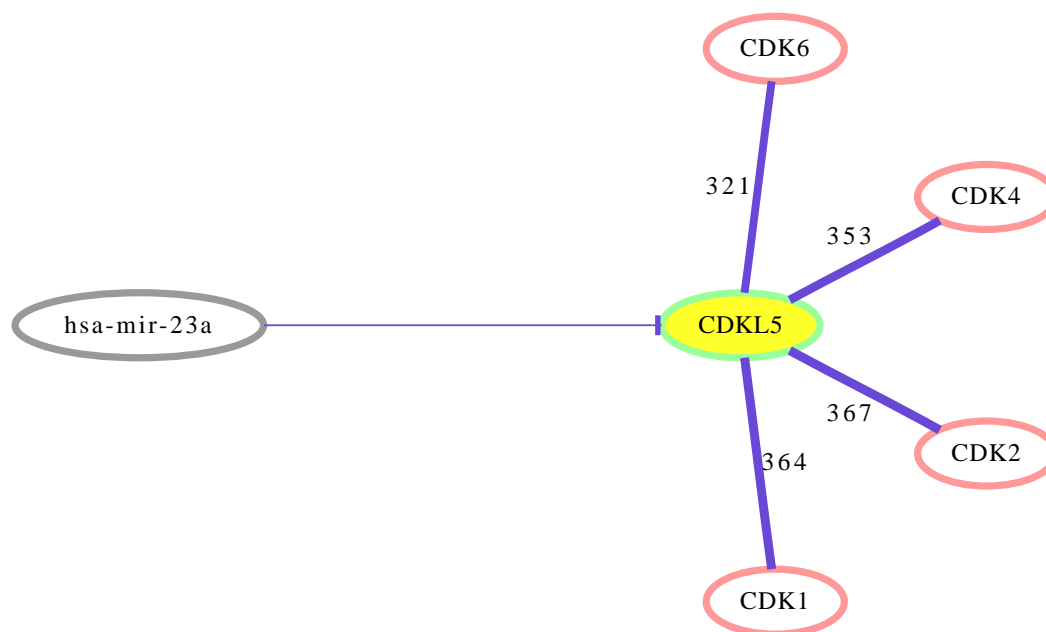


Figure 18: Enzyme pairs. Up or down regulated genes are in red or green. Enzyme pair frequencies are displayed on edges. Nodes filled with orange or yellow are validated or predicted miRNA targets in databases.

19 hsa-mir-23a down-regulate ENSG00000077264

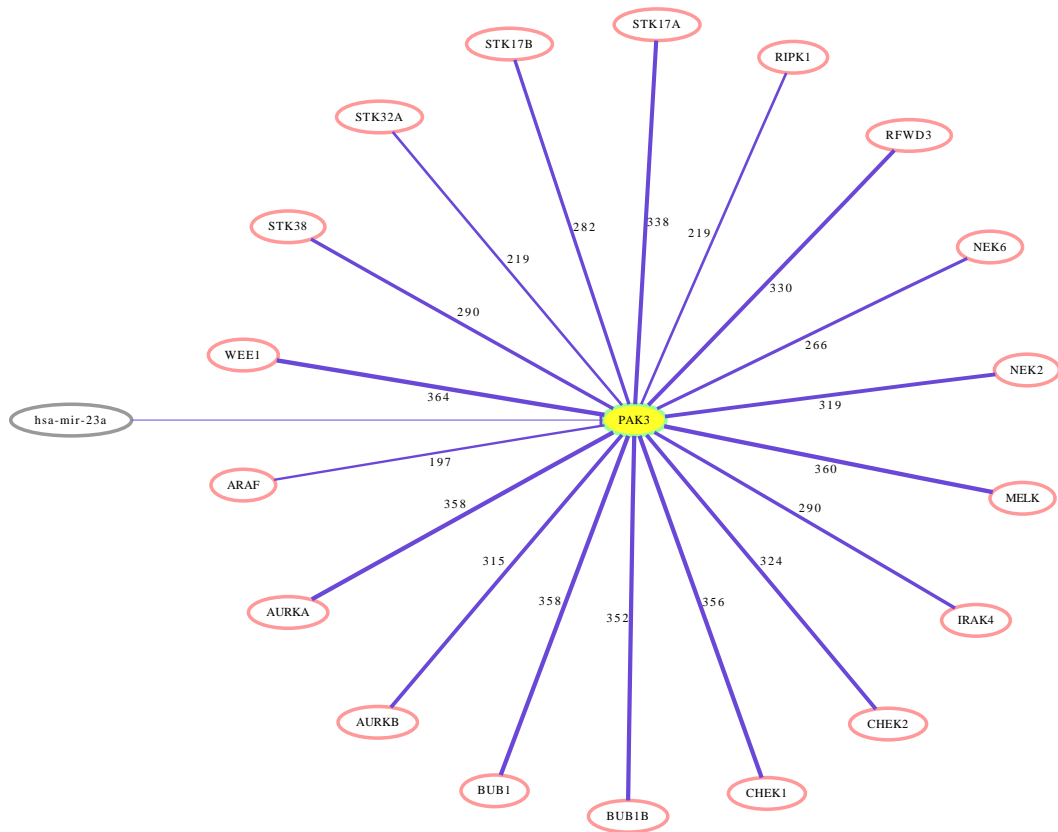


Figure 19: Enzyme pairs. Up or down regulated genes are in red or green. Enzyme pair frequencies are displayed on edges. Nodes filled with orange or yellow are validated or predicted miRNA targets in databases.

20 hsa-mir-23a down-regulate ENSG00000107758

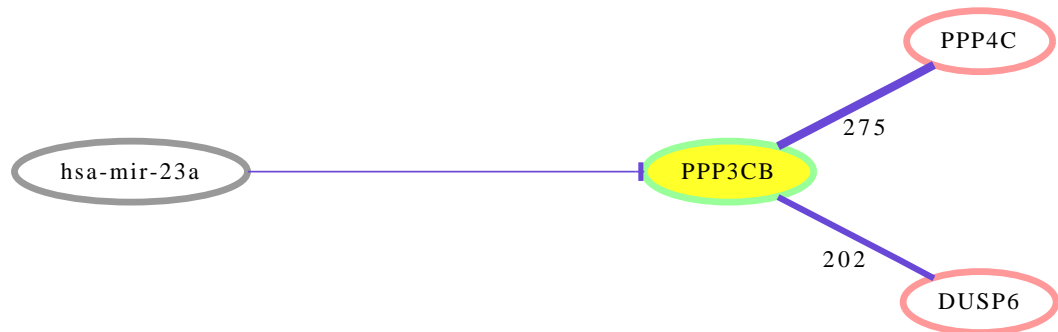


Figure 20: Enzyme pairs. Up or down regulated genes are in red or green. Enzyme pair frequencies are displayed on edges. Nodes filled with orange or yellow are validated or predicted miRNA targets in databases.

21 hsa-mir-23a down-regulate ENSG00000126583

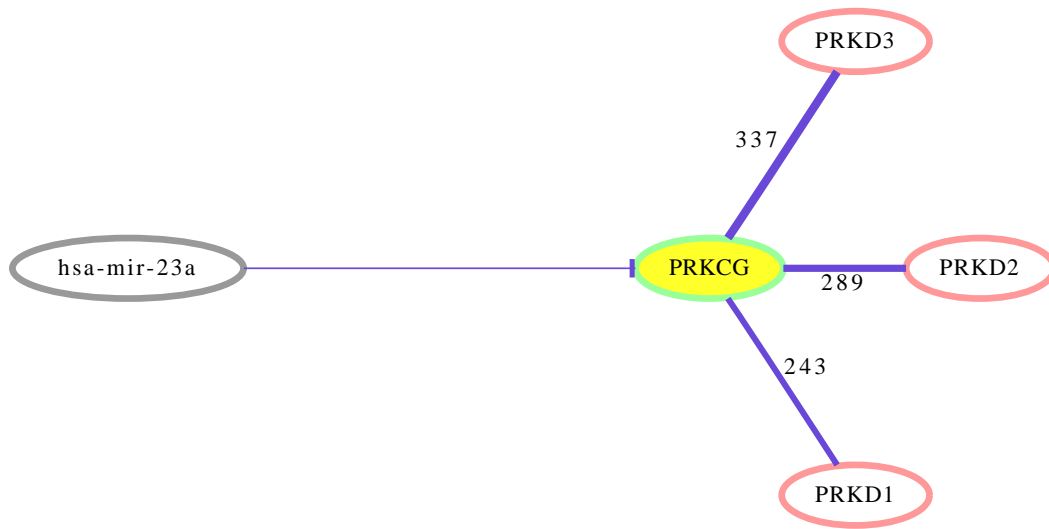


Figure 21: Enzyme pairs. Up or down regulated genes are in red or green. Enzyme pair frequencies are displayed on edges. Nodes filled with orange or yellow are validated or predicted miRNA targets in databases.

22 hsa-mir-23a down-regulate ENSG00000132932

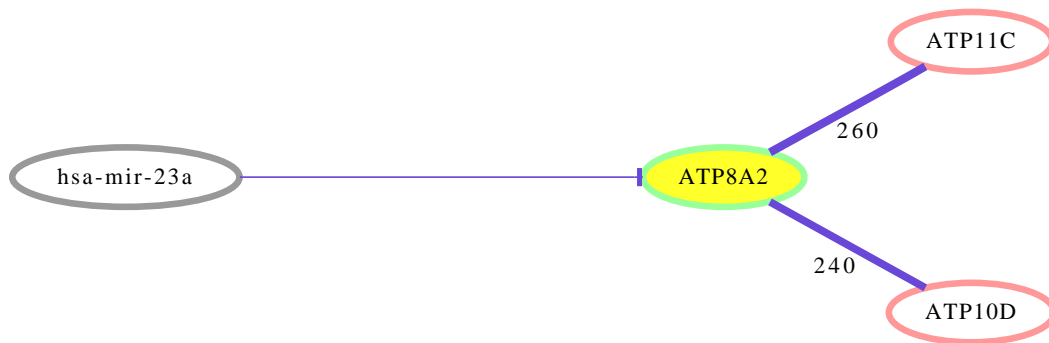


Figure 22: Enzyme pairs. Up or down regulated genes are in red or green. Enzyme pair frequencies are displayed on edges. Nodes filled with orange or yellow are validated or predicted miRNA targets in databases.

23 hsa-mir-23a down-regulate ENSG00000138769

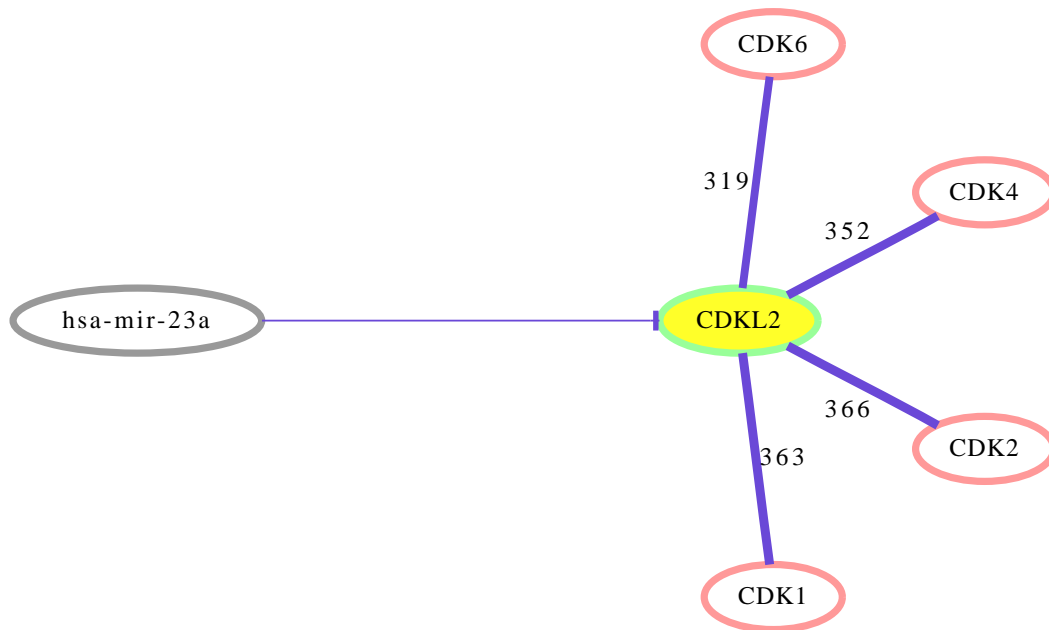


Figure 23: Enzyme pairs. Up or down regulated genes are in red or green. Enzyme pair frequencies are displayed on edges. Nodes filled with orange or yellow are validated or predicted miRNA targets in databases.

24 hsa-mir-23a down-regulate ENSG00000153233

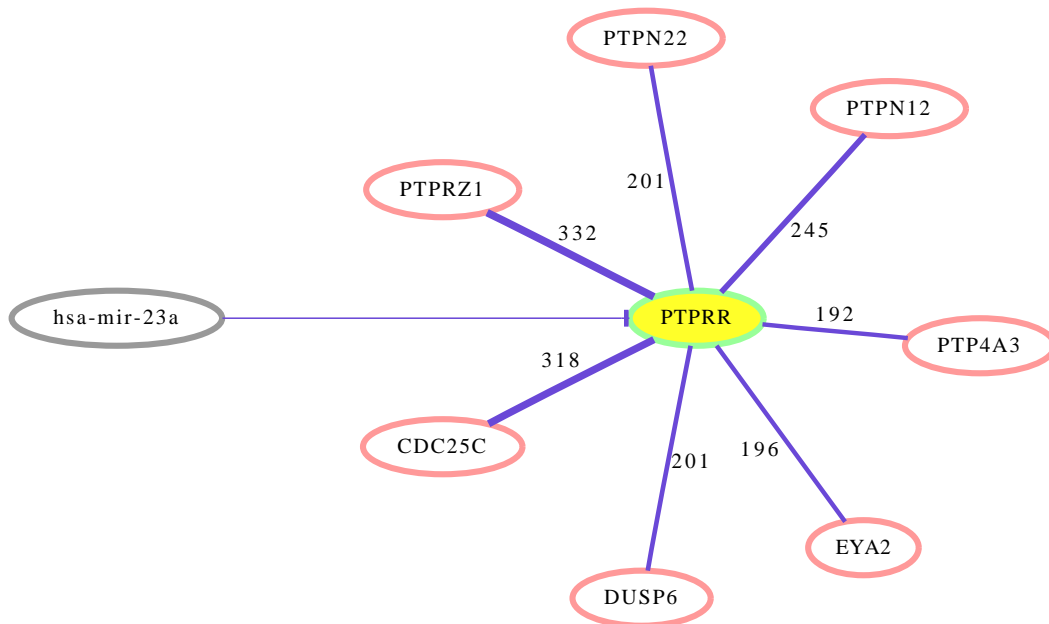


Figure 24: Enzyme pairs. Up or down regulated genes are in red or green. Enzyme pair frequencies are displayed on edges. Nodes filled with orange or yellow are validated or predicted miRNA targets in databases.

25 hsa-mir-25 down-regulate ENSG00000099308

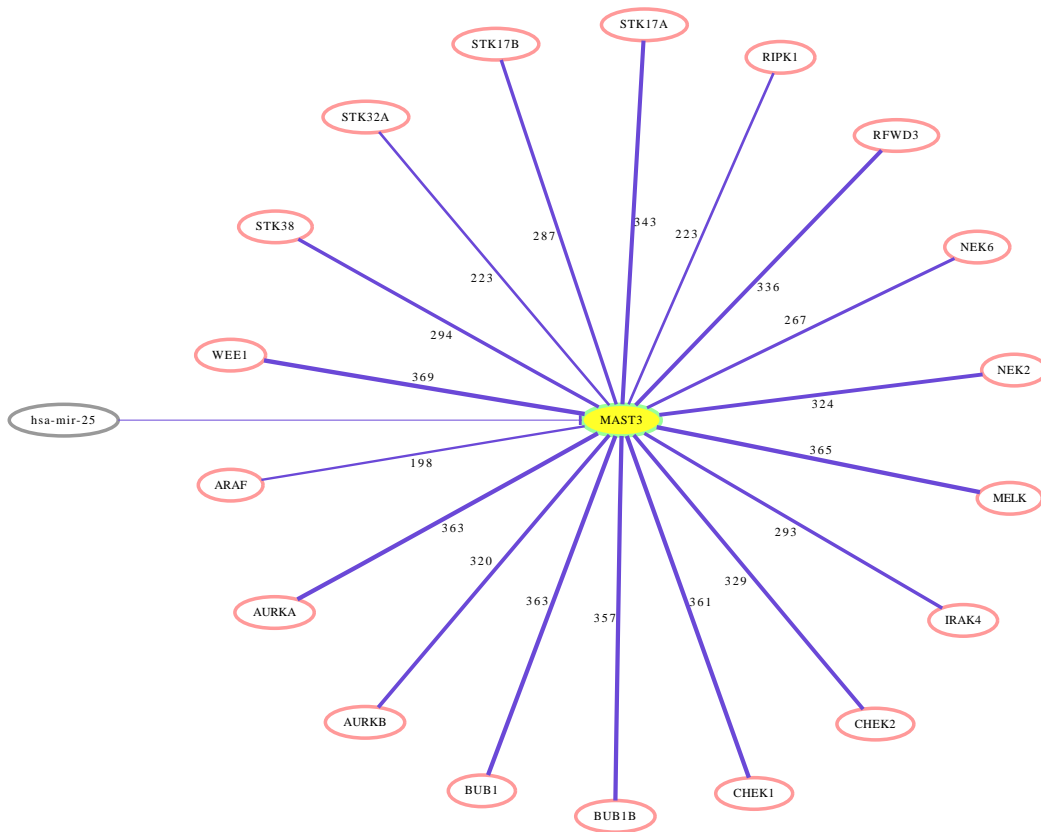


Figure 25: Enzyme pairs. Up or down regulated genes are in red or green. Enzyme pair frequencies are displayed on edges. Nodes filled with orange or yellow are validated or predicted miRNA targets in databases.

26 hsa-mir-25 down-regulate ENSG00000120899

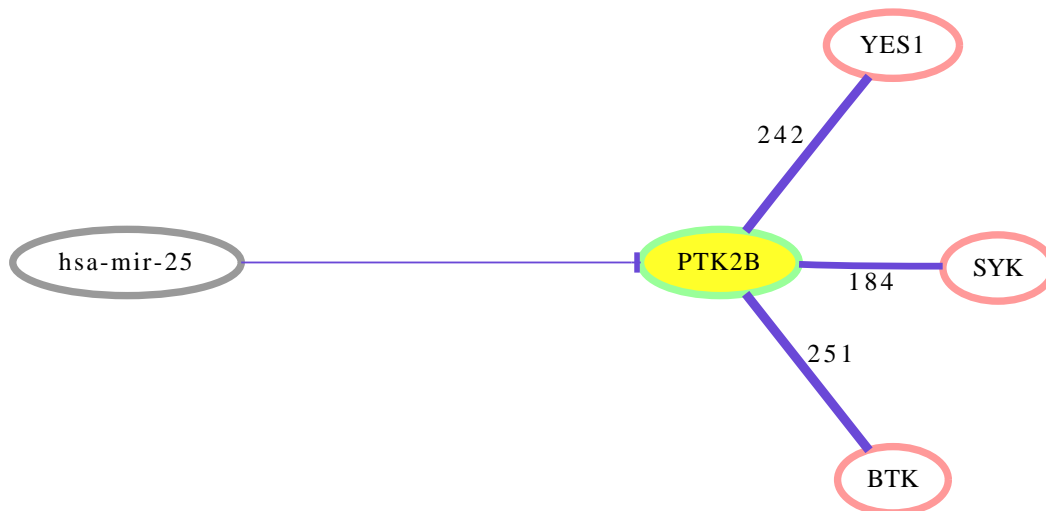


Figure 26: Enzyme pairs. Up or down regulated genes are in red or green. Enzyme pair frequencies are displayed on edges. Nodes filled with orange or yellow are validated or predicted miRNA targets in databases.

27 hsa-mir-27a down-regulate ENSG00000060140

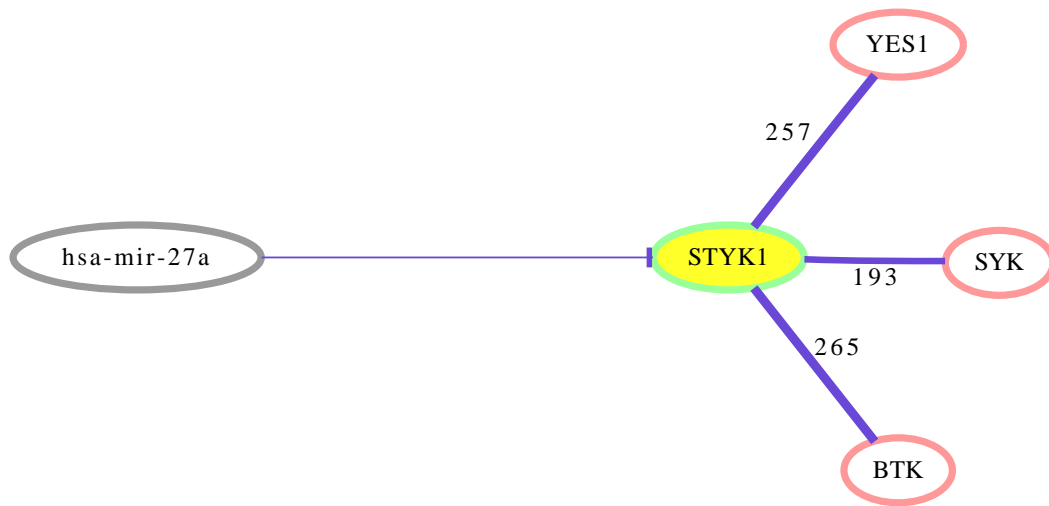


Figure 27: Enzyme pairs. Up or down regulated genes are in red or green. Enzyme pair frequencies are displayed on edges. Nodes filled with orange or yellow are validated or predicted miRNA targets in databases.

28 hsa-mir-27a down-regulate ENSG00000065559

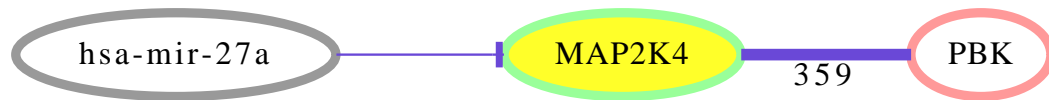


Figure 28: Enzyme pairs. Up or down regulated genes are in red or green. Enzyme pair frequencies are displayed on edges. Nodes filled with orange or yellow are validated or predicted miRNA targets in databases.

29 hsa-mir-27a down-regulate ENSG00000077264

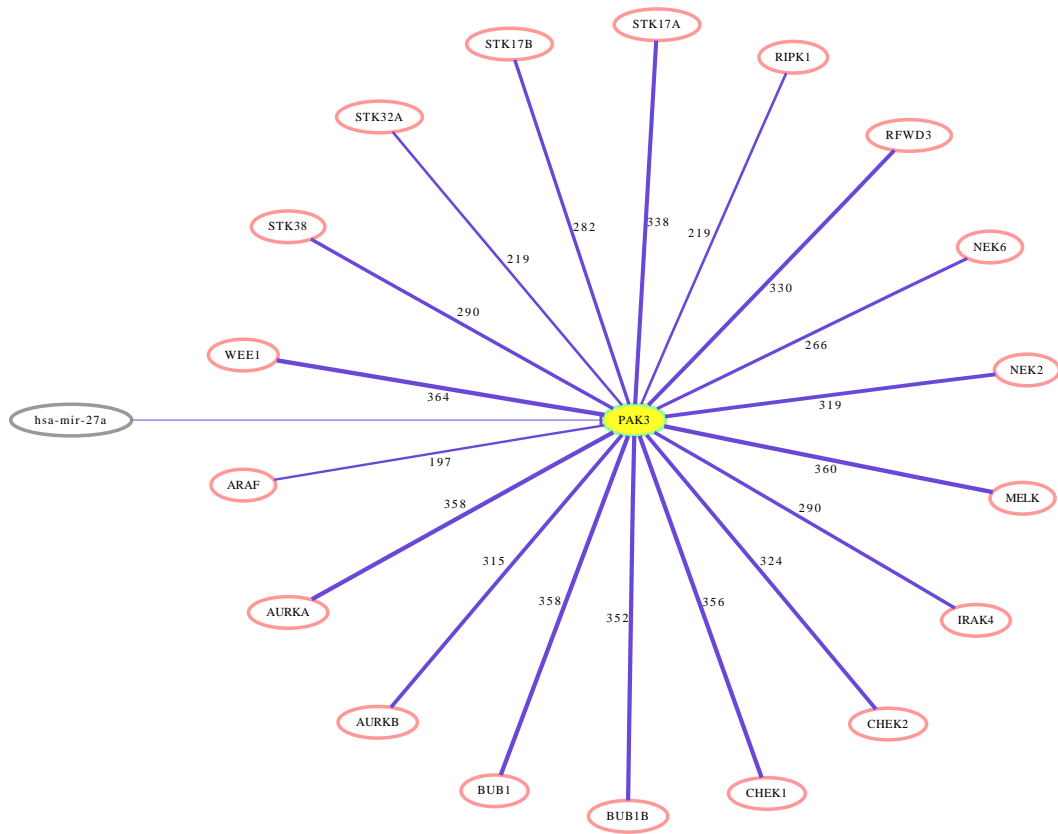


Figure 29: Enzyme pairs. Up or down regulated genes are in red or green. Enzyme pair frequencies are displayed on edges. Nodes filled with orange or yellow are validated or predicted miRNA targets in databases.

30 hsa-mir-27a down-regulate ENSG00000100784

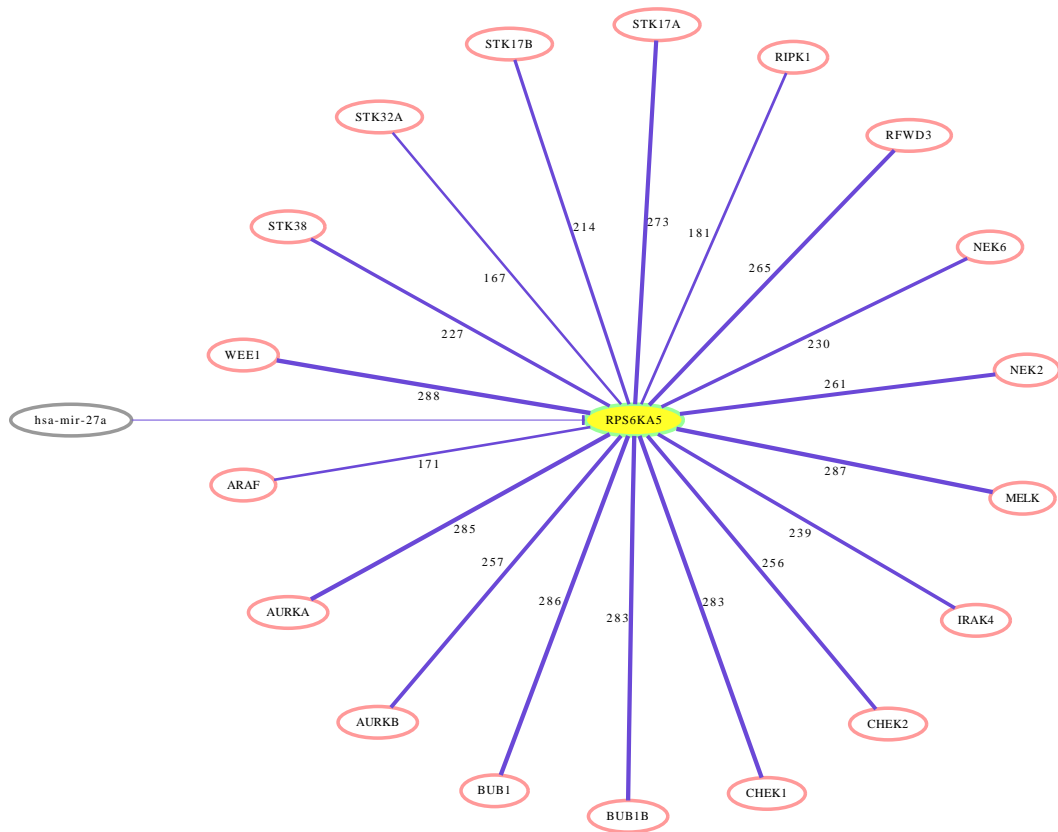


Figure 30: Enzyme pairs. Up or down regulated genes are in red or green. Enzyme pair frequencies are displayed on edges. Nodes filled with orange or yellow are validated or predicted miRNA targets in databases.

31 hsa-mir-27a down-regulate ENSG00000123191

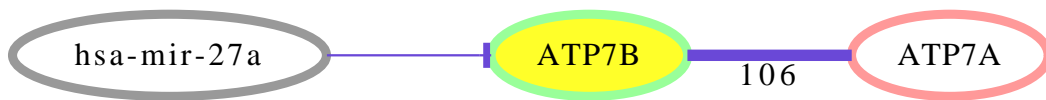


Figure 31: Enzyme pairs. Up or down regulated genes are in red or green. Enzyme pair frequencies are displayed on edges. Nodes filled with orange or yellow are validated or predicted miRNA targets in databases.

32 hsa-mir-27a down-regulate ENSG00000137843

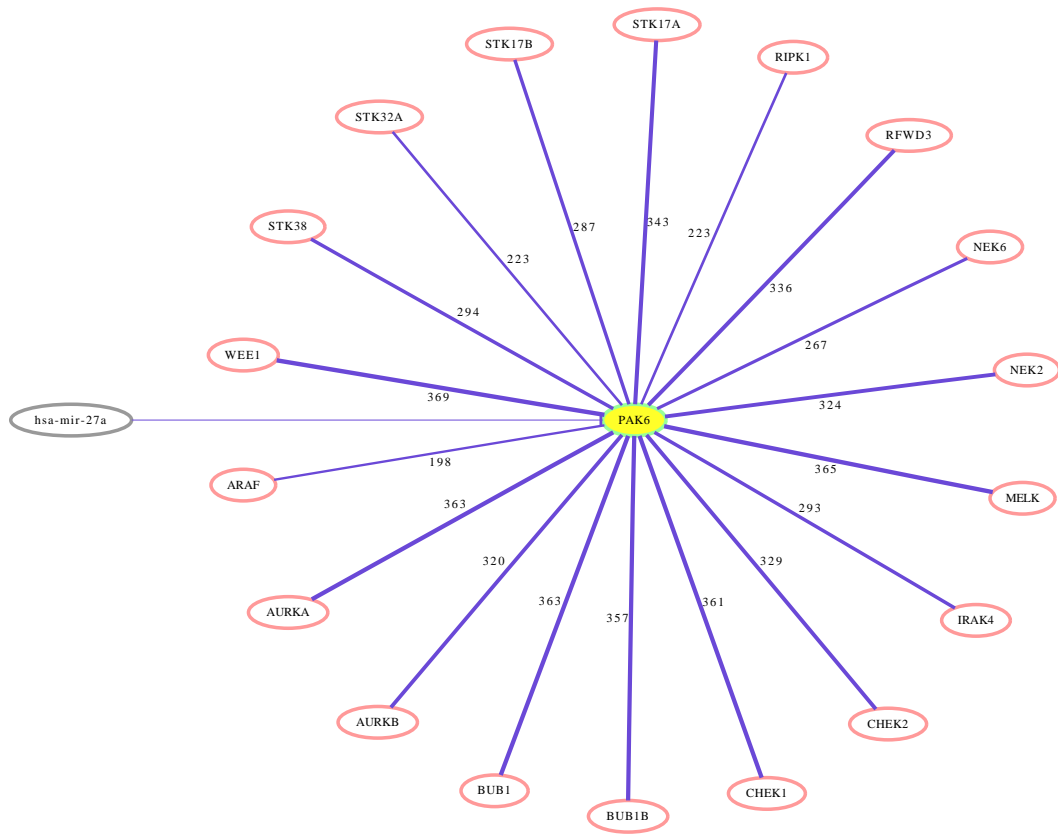


Figure 32: Enzyme pairs. Up or down regulated genes are in red or green. Enzyme pair frequencies are displayed on edges. Nodes filled with orange or yellow are validated or predicted miRNA targets in databases.

33 hsa-mir-27a down-regulate ENSG00000160469

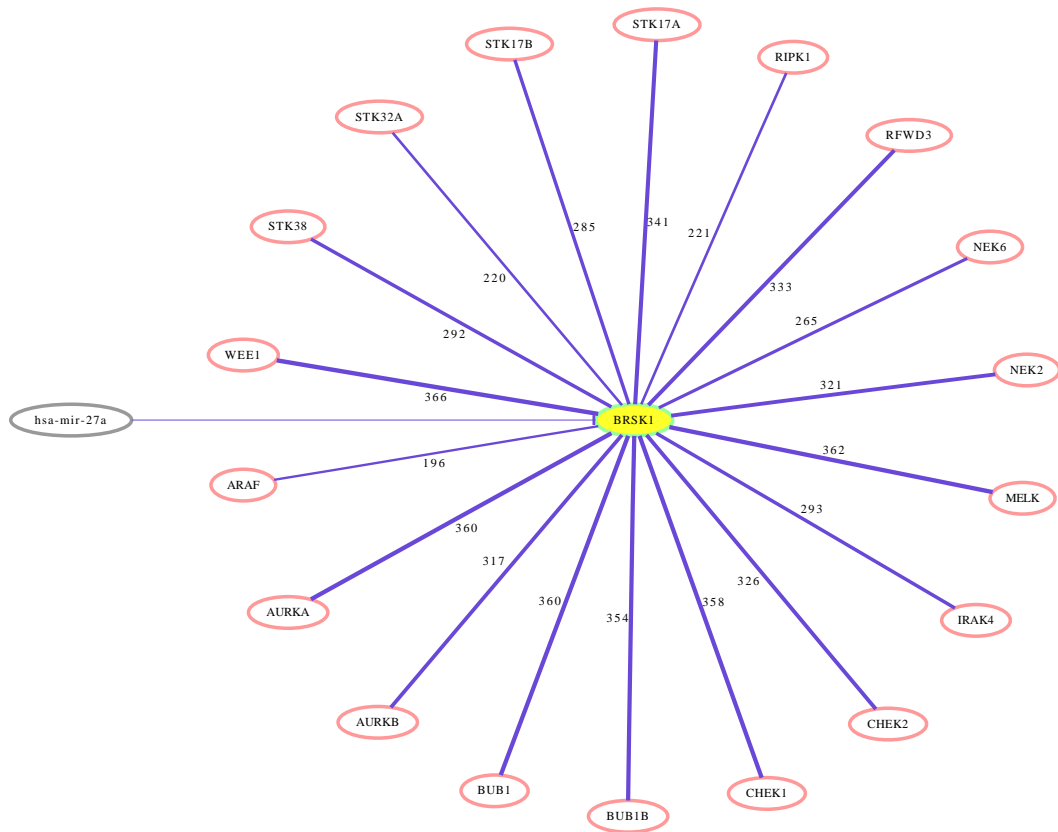


Figure 33: Enzyme pairs. Up or down regulated genes are in red or green. Enzyme pair frequencies are displayed on edges. Nodes filled with orange or yellow are validated or predicted miRNA targets in databases.

34 hsa-mir-27a down-regulate ENSG00000162630

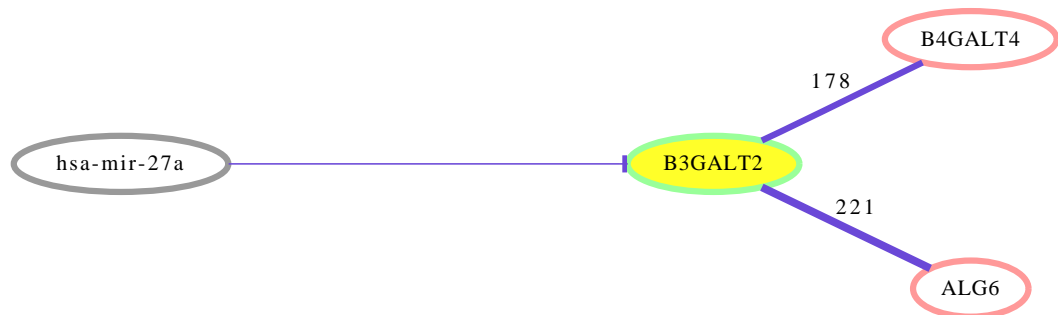


Figure 34: Enzyme pairs. Up or down regulated genes are in red or green. Enzyme pair frequencies are displayed on edges. Nodes filled with orange or yellow are validated or predicted miRNA targets in databases.

35 hsa-mir-27a down-regulate ENSG00000165752

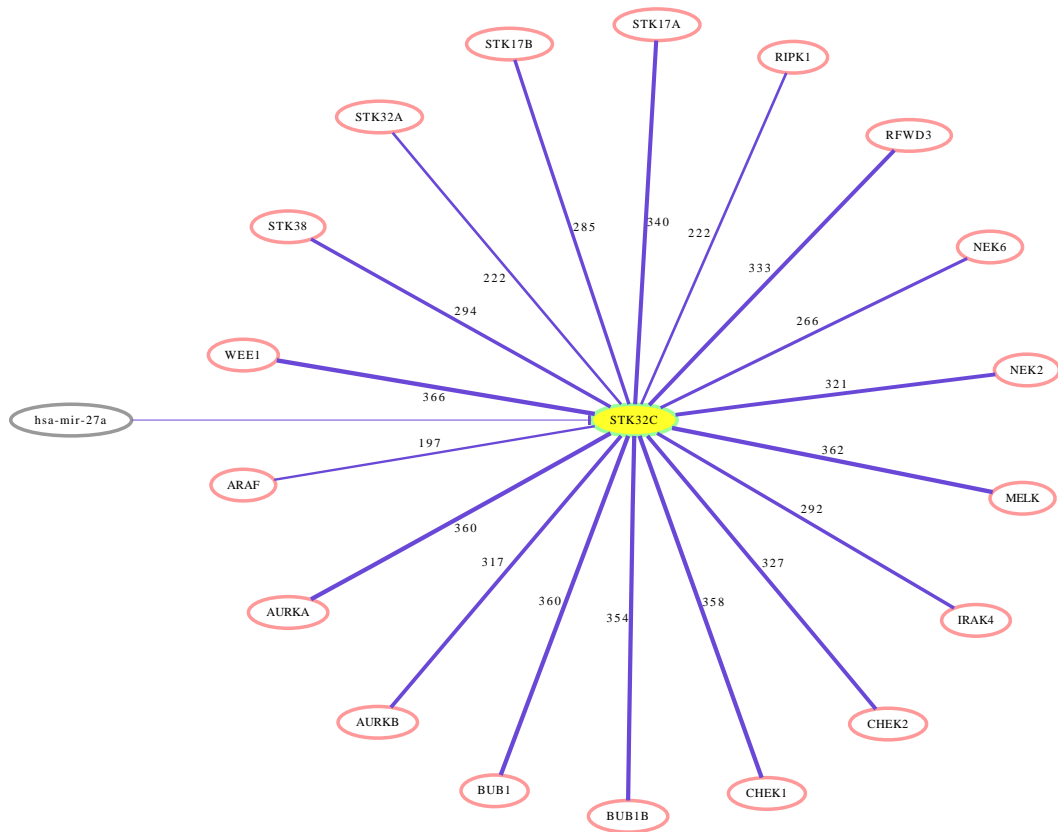


Figure 35: Enzyme pairs. Up or down regulated genes are in red or green. Enzyme pair frequencies are displayed on edges. Nodes filled with orange or yellow are validated or predicted miRNA targets in databases.

36 hsa-mir-27a down-regulate ENSG00000166501

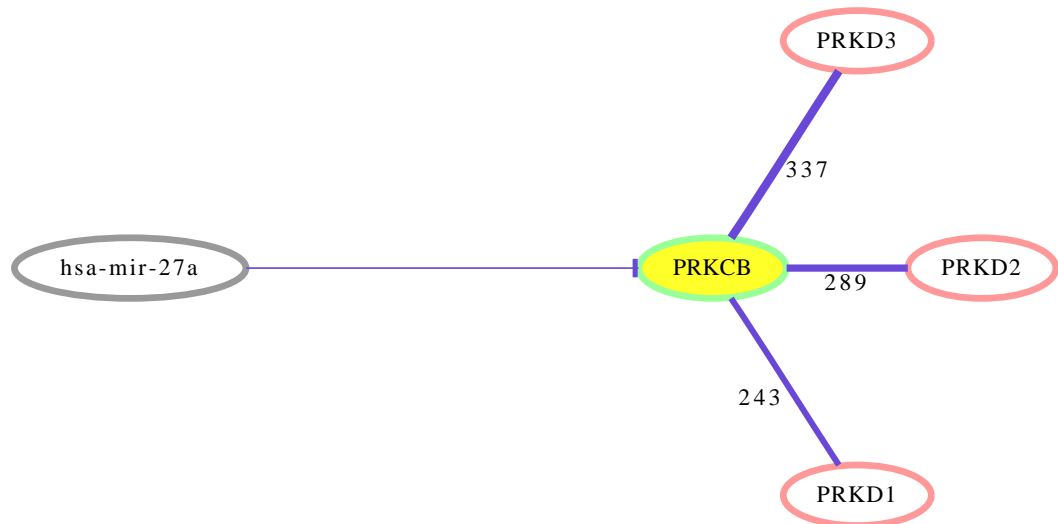


Figure 36: Enzyme pairs. Up or down regulated genes are in red or green. Enzyme pair frequencies are displayed on edges. Nodes filled with orange or yellow are validated or predicted miRNA targets in databases.

37 hsa-mir-27a down-regulate ENSG00000184545

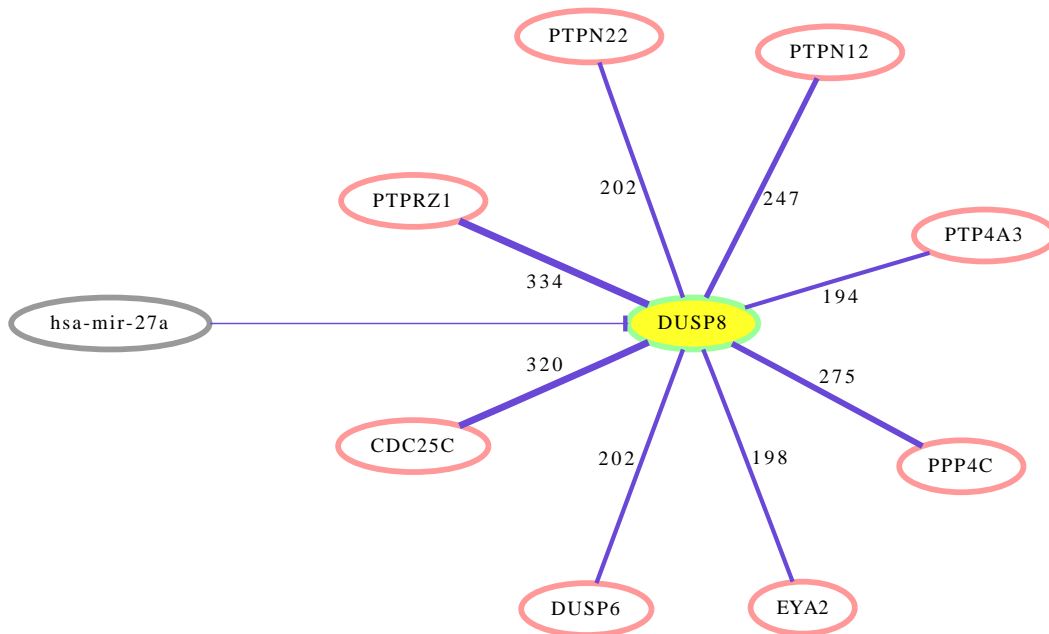


Figure 37: Enzyme pairs. Up or down regulated genes are in red or green. Enzyme pair frequencies are displayed on edges. Nodes filled with orange or yellow are validated or predicted miRNA targets in databases.

38 hsa-mir-27a down-regulate ENSG00000189056

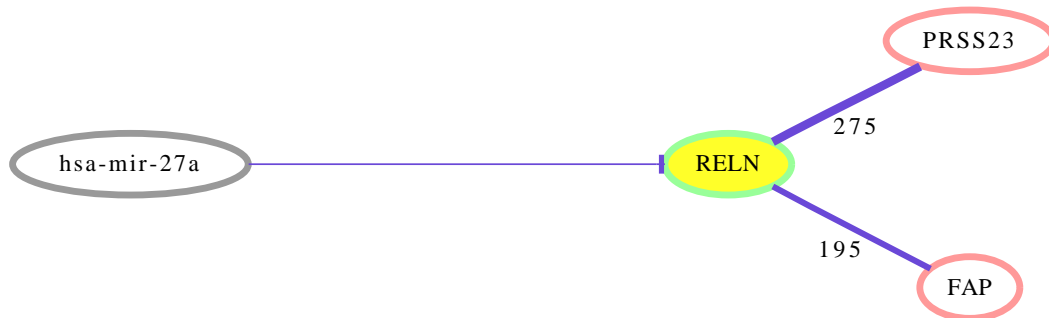


Figure 38: Enzyme pairs. Up or down regulated genes are in red or green. Enzyme pair frequencies are displayed on edges. Nodes filled with orange or yellow are validated or predicted miRNA targets in databases.

39 hsa-mir-27a down-regulate ENSG00000196090

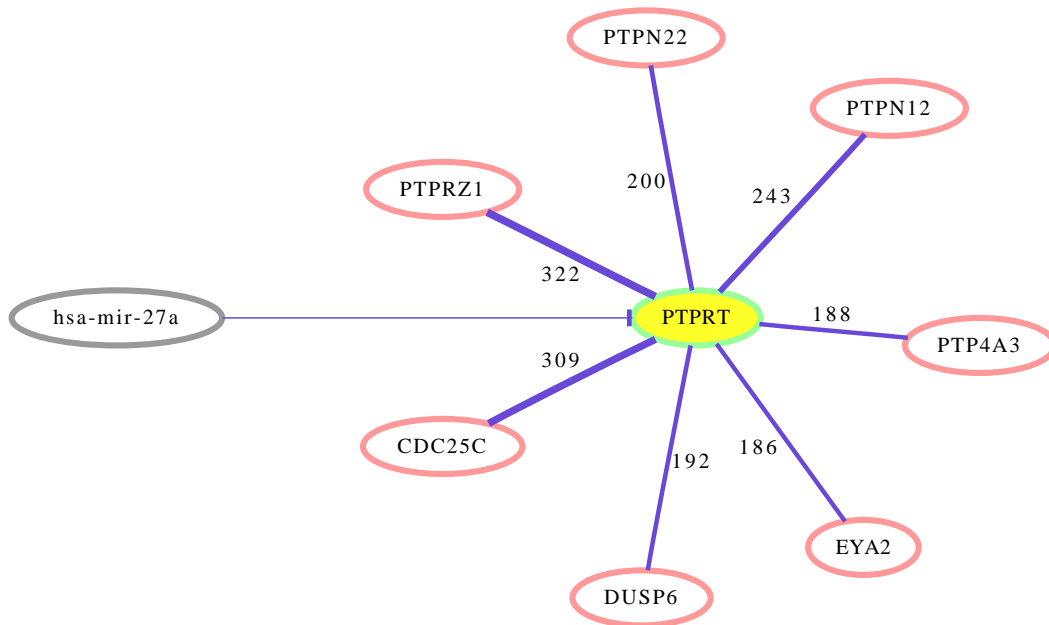


Figure 39: Enzyme pairs. Up or down regulated genes are in red or green. Enzyme pair frequencies are displayed on edges. Nodes filled with orange or yellow are validated or predicted miRNA targets in databases.

40 hsa-mir-34a down-regulate ENSG00000164076

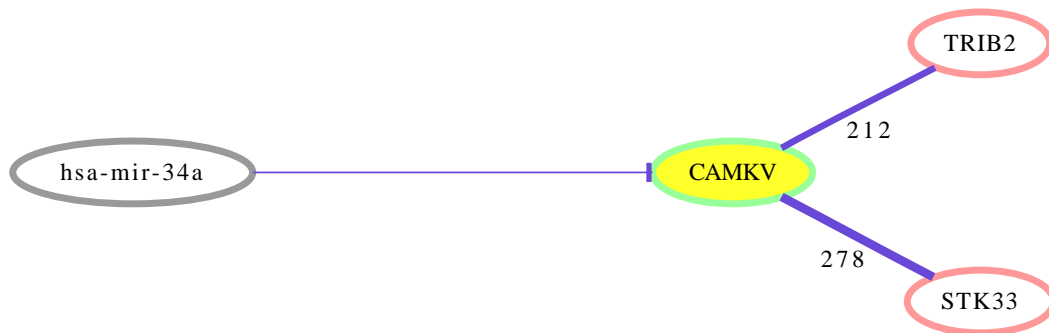


Figure 40: Enzyme pairs. Up or down regulated genes are in red or green. Enzyme pair frequencies are displayed on edges. Nodes filled with orange or yellow are validated or predicted miRNA targets in databases.

41 hsa-mir-93 down-regulate ENSG00000099308

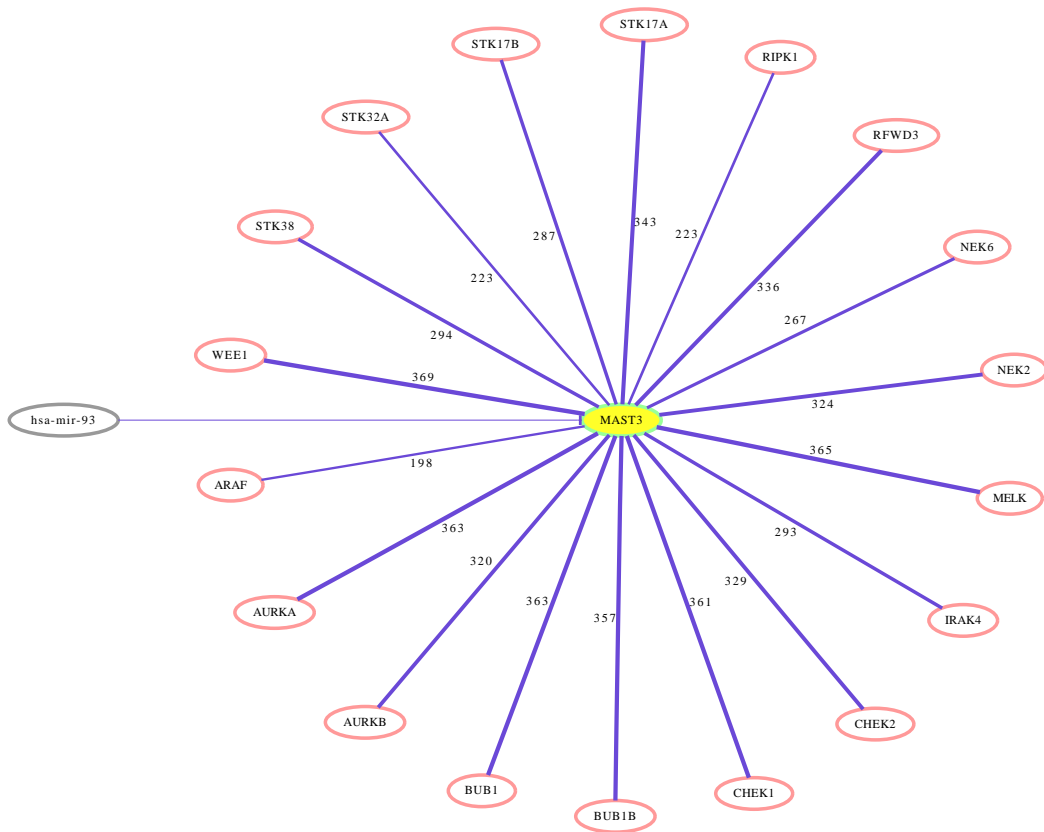


Figure 41: Enzyme pairs. Up or down regulated genes are in red or green. Enzyme pair frequencies are displayed on edges. Nodes filled with orange or yellow are validated or predicted miRNA targets in databases.

42 hsa-mir-93 down-regulate ENSG00000153233

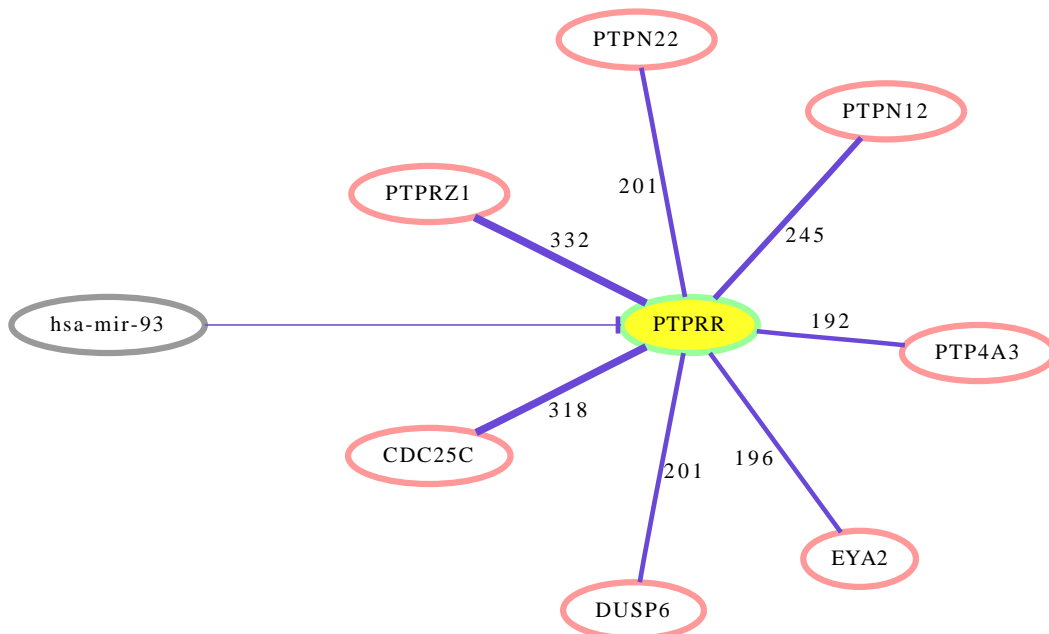


Figure 42: Enzyme pairs. Up or down regulated genes are in red or green. Enzyme pair frequencies are displayed on edges. Nodes filled with orange or yellow are validated or predicted miRNA targets in databases.

43 hsa-mir-93 down-regulate ENSG00000169032

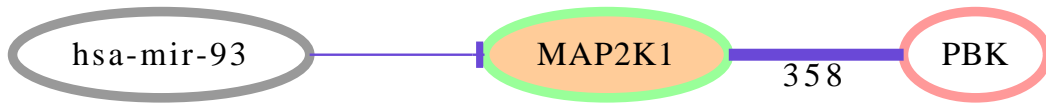


Figure 43: Enzyme pairs. Up or down regulated genes are in red or green. Enzyme pair frequencies are displayed on edges. Nodes filled with orange or yellow are validated or predicted miRNA targets in databases.

44 hsa-mir-93 down-regulate ENSG00000173482

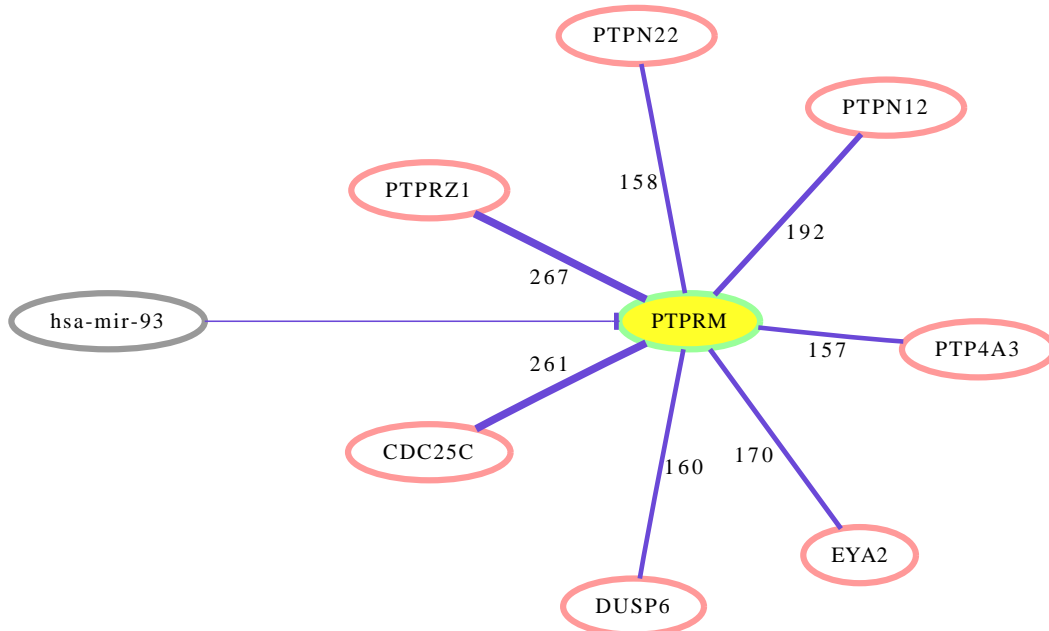


Figure 44: Enzyme pairs. Up or down regulated genes are in red or green. Enzyme pair frequencies are displayed on edges. Nodes filled with orange or yellow are validated or predicted miRNA targets in databases.

45 hsa-mir-93 down-regulate ENSG00000185133



Figure 45: Enzyme pairs. Up or down regulated genes are in red or green. Enzyme pair frequencies are displayed on edges. Nodes filled with orange or yellow are validated or predicted miRNA targets in databases.

References

- [1] K. Ovaska, M. Laakso, S. Haapa-Paananen, R. Louhimo, P. Chen, V. Aittomäki, E. Valo, J. Núñez-Fontarnau, V. Rantanen, S. Karinen, K. Nousiainen, A.-M. Lahesmaa-Korpinen, M. Miettinen, L. Saarinen, P. Kohonen, J. Wu, J. Westermarck, and S. Hautaniemi. Large-scale data integration framework provides a comprehensive view on glioblastoma multiforme. *Genome Medicine*, 2(9):65, September 2010.