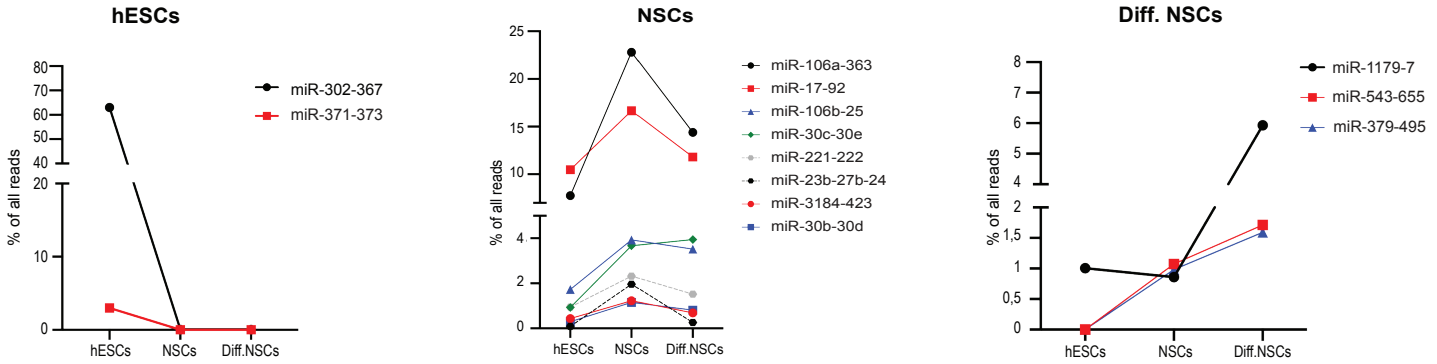


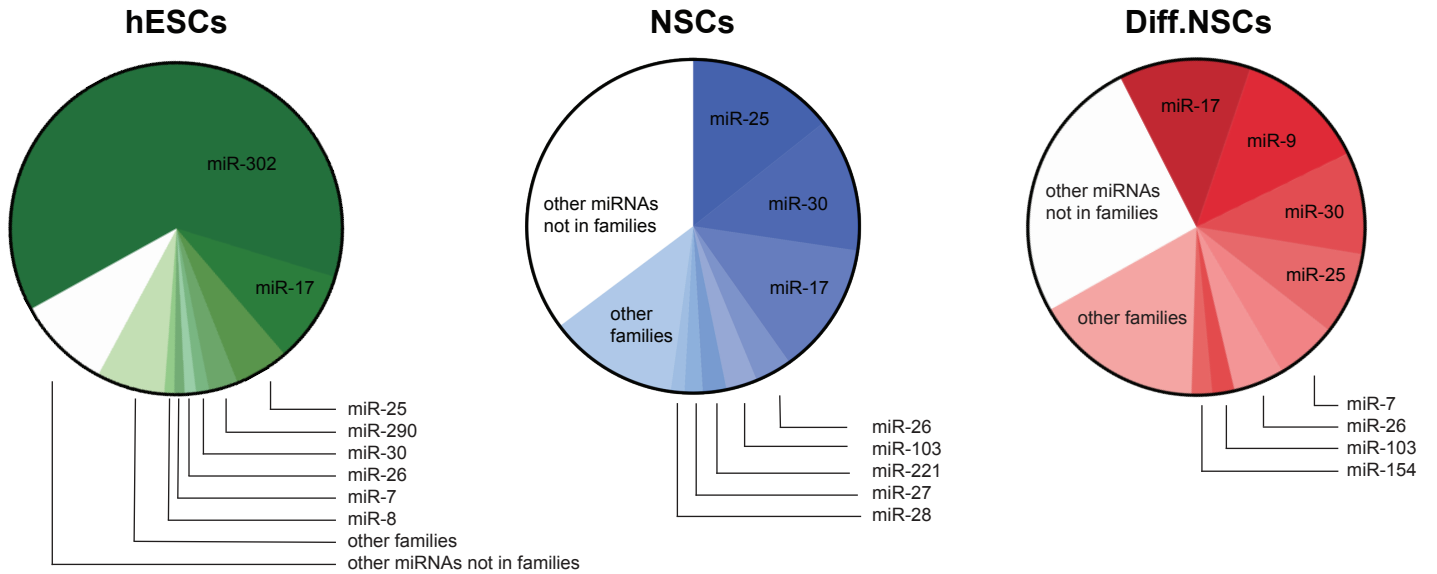
A



B

cluster	miRNAs in cluster
miR-106a-363	miR-106a-3p, miR-106a-5p, miR-18b-3p, miR-18b-5p, miR-19b-2-5p, miR-19b-3p, miR-20b-3p, miR-20b-5p, miR-363-3p, miR-363-5p, miR-92a-2-5p, miR-92a-3p
miR-106b-25	miR-106b-3p, miR-106b-5p, miR-25-3p, miR-25-5p, miR-93-3p, miR-93-5p
miR-1179-7	miR-1179, miR-3529-5p, miR-7-2-3p, miR-7-5p
miR-17-92	miR-17-3p, miR-17-5p, miR-18a-3p, miR-18a-5p, miR-19a-3p, miR-19a-5p, miR-19b-1-5p, miR-19b-3p, miR-20a-3p, miR-20a-5p, miR-92a-1-5p, miR-92a-3p
miR-221-222	miR-221-3p, miR-221-5p, miR-222-3p, miR-222-5p
miR-23b-24b-27	miR-23b-3p, miR-23b-5p, miR-24-1-5p, miR-24-3p, miR-27b-3p, miR-27b-5p, miR-3074-5p
miR-302-367	miR-302a-3p, miR-302a-5p, miR-302b-3p, miR-302b-5p, miR-302d-5p, miR-367-3p, miR-367-5p
miR-30b-30d	miR-30b-3p, miR-30b-5p, miR-30d-3p, miR-30d-5p
miR-30c-30e	miR-30c-1-3p, miR-30c-5p, miR-30e-3p, miR-30e-5p
miR-3184-423	miR-3184-5p, miR-423-3p, miR-423-5p
miR-371-373	miR-371a-3p, miR-371a-5p, miR-372-3p, miR-372-5p, miR-373-3p, miR-373-5p
miR-379-495	miR-1197, miR-299-3p, miR-299-5p, miR-300, miR-323a-3p, miR-323a-5p, miR-329-3p, miR-329-5p, miR-376a-3p, miR-376a-5p, miR-376a-2-5p, miR-376b-3p, miR-376c-3p, miR-379-3p, miR-379-5p, miR-380-3p, miR-380-5p, miR-411-3p, miR-411-5p, miR-494-3p, miR-494-5p, miR-495-3p, miR-495-5p, miR-543, miR-654-3p, miR-654-5p, miR-758-5p
miR-543-655	miR-1185-1-3p, miR-1185-5p, miR-1185-2-3p, miR-300, miR-376a-3p, miR-376a-5p, miR-376a-2-5p, miR-376b-3p, miR-376c-3p, miR-381-3p, miR-381-5p, miR-487b-3p, miR-487b-5p, miR-494-3p, miR-494-5p, miR-495-3p, miR-495-5p, miR-539-3p, miR-539-5p, miR-543, miR-544a, miR-654-3p, miR-654-5p, miR-655-3p, miR-655-5p, miR-889-3p, miR-889-5p

C



Supplementary Figure 3