

Sub-cluster	Expression	GO Biological Processes															KEGG pathways											miRNA members										
		neuron differentiation	neuron development	transmission of nerve impulse	synaptic transmission	neuron projection development	axonogenesis	pattern specification process	vesicle-mediated transport	modification-dependent macromolecule catabolic process	cell motion	cell migration	morphogenesis of a branching structure	vasculature development	epithelium development	cell-cell signaling	cell adhesion	Wnt signaling pathway	Neurotrophin signaling pathway	Glioma	Melanoma	Melanogenesis	Axon guidance	Regulation of actin cytoskeleton	Focal adhesion	Adherens Junction	Wnt signaling pathway		MAPK signaling pathway	TGF-beta signaling pathway	GnRH signaling pathway							
sc_1	RPE, ret	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	100	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	miR-126-5p, miR-451, miR-652	
sc_2	RPE	83	x	x	83	x	x	100	x	x	x	x	x	x	x	x	x	100	83	x	x	100	x	100	83	x	x	x	x	x	x	x	x	x	83	x	x	miR-145, miR-143, miR-146b, let-7c, miR-466b-3-3p, miR-466a-3p/ miR-466b-3p/ miR-466c-3p/ miR-466e-3p
sc_3	RPE, cor	88	88	x	x	88	x	x	x	x	88	88	x	x	x	x	75	x	x	88	100	88	88	88	75	100	x	x	x	x	x	x	x	x	x	x	let-7b, miR-142-5p, miR-142-3p, miR-297a, miR-574-5p, miR-706, miR-497, miR-669a	
sc_4	RPE	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	78	x	x	x	89	x	78	x	89	89	x	x	x	x	x	x	x	x	x	miR-223, miR-883a-5p, miR-214, miR-467e, miR-1196, miR-150, miR-877, miR-125b-5p, miR-665	
sc_5	ret	75	75	75	x	75	x	88	x	x	75	88	x	75	x	x	x	100	88	x	x	100	88	75	x	x	100	x	x	x	x	x	x	x	x	x	miR-186, miR-361, miR-181b, miR-181d, miR-708, miR-331-3p, miR-301a, miR-181c	
sc_6	ret, RPE	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	88	x	x	x	x	75	x	x	x	x	x	x	x	x	x	miR-328, miR-532-5p, miR-185, miR-124, miR-151-5p, miR-140, miR-339-5p, miR-211	
sc_7	ret	x	83	x	x	x	x	x	x	x	x	x	x	x	x	x	x	83	x	x	x	83	x	83	x	83	100	x	x	x	x	x	x	x	x	x	miR-541, miR-377, miR-136, miR-434-3p, miR-7b, miR-101b	
sc_8	ret	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	75	x	88	x	x	75	x	x	x	x	x	x	x	x	x	x	miR-425, miR-219, miR-598, miR-495, miR-369-3p, miR-335-5p, miR-376a, miR-484	
sc_9	ret	x	80	x	x	x	x	80	x	x	x	x	x	x	x	x	x	80	x	x	100	100	100	80	100	100	80	x	x	x	x	x	x	x	80	x	miR-190b, miR-194, miR-129-3p, miR-148b, miR-153	
sc_10	ret	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	100	88	x	x	100	x	88	x	100	88	x	x	x	x	x	x	x	x	x	miR-9, miR-345-5p, let-7g, miR-138, miR-500, miR-132, miR-29c, miR-197	
sc_11	ret	70	70	x	70	x	x	x	x	80	80	x	70	x	x	x	x	90	70	x	x	90	80	80	x	x	90	x	x	x	x	x	x	x	x	x	miR-183, miR-362-3p, miR-96, miR-30e, miR-212, miR-191, miR-326, miR-30a, miR-101a, miR-182	
sc_12	ret, cor, RPE	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	83	x	x	x	x	100	x	x	x	x	x	x	x	x	x	x	miR-434-5p, miR-106b, miR-127, miR-29b, miR-677, miR-29a	
sc_13	ret, RPE	80	70	x	x	x	x	100	90	x	x	x	x	x	x	x	80	90	90	100	x	100	x	100	70	80	x	x	x	x	x	x	x	x	x	x	miR-30d, miR-30c, miR-144, miR-30b, miR-107, miR-103, miR-98, let-7d, let-7f, let-7a	
sc_14	ret, RPE	100	100	x	x	88	75	75	x	x	x	x	75	x	x	x	88	75	x	x	100	75	100	x	75	88	x	x	x	x	x	x	x	x	x	x	miR-26a, miR-26b, miR-805, miR-1187, miR-34a, miR-423-5p, let-7i, miR-378	
sc_15	ret, cor	x	x	x	x	78	x	x	70	x	70	x	x	x	x	x	80	80	x	x	70	70	80	70	70	80	x	80	x	80	x	80	x	80	x	80	miR-16, miR-411, miR-379, miR-15a, miR-685, miR-674, miR-25, miR-15b, miR-193, miR-21	
sc_16	ret, lens	73	73	x	x	x	x	x	x	x	x	x	x	x	73	x	x	73	x	x	82	x	82	73	73	91	x	x	x	x	x	x	x	x	x	x	miR-181a, miR-7a, miR-872, miR-341, miR-128, miR-384-5p, miR-340-5p, miR-376b, miR-192, miR-382, miR-129-5p, miR-384-3p	
sc_17	lens, ret	78	100	x	x	78	78	x	x	x	78	x	x	x	x	x	x	x	x	78	100	73	89	x	78	78	x	x	x	x	x	x	x	x	x	x	miR-218, miR-374, miR-34b-5p, miR-465b-5p, miR-582-5p, miR-499, miR-130b, miR-300, miR-375	
sc_18	lens, cor	x	78	x	x	x	x	x	x	x	x	x	x	x	x	x	x	78	x	x	78	x	78	x	x	x	x	x	x	x	x	x	x	x	x	x	miR-93, miR-130a, miR-184, miR-17, miR-20a, miR-20b, miR-503, miR-31, miR-668	
sc_19	lens	x	x	x	x	x	x	75	75	x	x	x	75	x	x	75	x	x	x	x	100	x	75	x	75	100	x	x	x	x	x	x	x	x	x	x	miR-542-3p, miR-770-3p, miR-494, miR-705	
sc_20	lens, cor	80	x	x	x	x	x	x	x	x	80	x	x	x	x	x	x	x	x	x	80	x	x	80	100	x	x	x	x	x	x	x	x	x	x	x	x	miR-742, miR-290-5p, miR-470, miR-207, miR-720
sc_21	lens, cor	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	71	x	x	x	x	x	x	x	x	x	x	x	miR-582-3p, miR-675-5p, miR-667, miR-673-3p, miR-804, miR-874, miR-551b	
sc_22	lens, RPE	80	80	x	x	80	80	x	100	x	80	x	x	x	x	x	80	x	x	80	80	x	x	x	80	x	x	x	x	x	x	x	x	x	x	x	miR-206, miR-125b-3p, miR-882, miR-204, miR-713	
sc_23	lens	x	x	x	x	75	x	x	x	x	x	x	x	x	x	x	75	x	x	75	x	x	x	x	88	x	x	x	x	x	x	x	x	x	x	x	x	miR-325, miR-693-5p, miR-133a, miR-365, miR-883b-5p, miR-1, miR-133b, miR-710
sc_24	cor, RPE	83	x	x	x	x	x	x	x	x	x	x	x	x	x	x	75	x	x	92	92	92	83	92	92	x	x	x	x	x	x	x	x	x	x	miR-222, miR-27b, miR-322, miR-221, miR-490, miR-24, miR-199a-3p/ miR-199b, miR-199a-5p, miR-23b, miR-23a, miR-22, miR-27a		
sc_25	cor	88	x	x	x	x	x	75	88	75	88	75	88	75	x	x	75	75	x	x	100	88	88	100	88	100	x	88	x	88	x	88	x	88	x	88	miR-205, miR-200b, miR-429, miR-200c, miR-141, miR-200a, miR-203, miR-148a	