

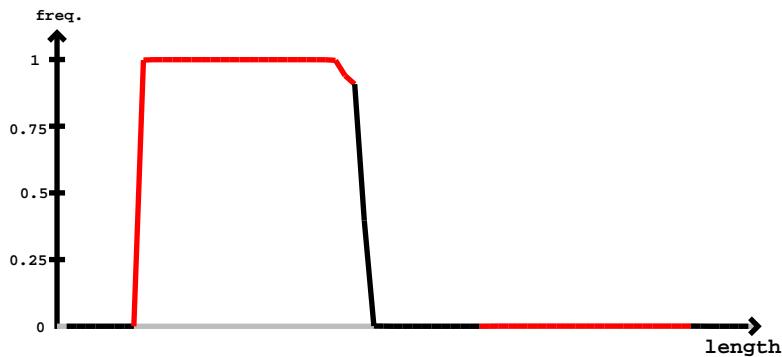
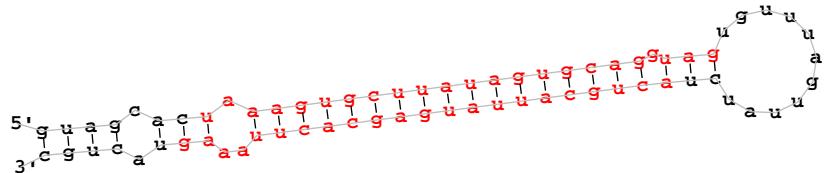
miRBase precursor : hsa-mir-20a

Total read count : 17440

hsa-miR-20a-5p read count : 17429

hsa-miR-20a-3p read count : 11

remaining reads : 0



hsa-miR-20a-5p

hsa-miR-20a-3p

5' - guagcacuaaagugcuuauagugcagguauguguuuaguauacuacugcauuauagagcacuuuaagacugc - 3'	exp	reads	mm	sample
(((((.....(((((((((.((.....))))))))))))))))....))))....))))....))))....)))				
.....uaaagugcuuauagugUag.....		1	1	Z3_
.....uaaagugcuuauagugcagg.....		1	0	Z3_
.....uaaagugcuuauagugUagg.....		1	1	Z3_
.....uaaagugcuuauagugUagg.....		2	1	Z3_
.....uaaagugcuuauagugcaggC.....		7	1	Z3_
.....uGaagugcuuauagugcagg.....		1	1	Z3_
.....uaaagugcuuauagugcagg.....		65	0	Z3_
.....uaaGgugcuuauagugcagg.....		1	1	Z3_
.....uaaaguUcuuauagugcagg.....		1	1	Z3_
.....uaaagugcuuauagugCggua.....		1	1	Z3_
.....aaaaAugcuuauagugcaggua.....		1	1	Z3_
.....aaaagugcuuauagCgcaggua.....		1	1	Z3_
.....aaaagugcuuauagugcaggGa.....		1	1	Z3_
.....aaaagugcuuauagugcaggua.....		56	0	Z3_
.....aaaagugcCuauagugcaggua.....		2	1	Z3_
.....uaaagugcuuauagugcaggua.....		2	1	Z3_
.....uUaagugcuuauagugcaggua.....		1	1	Z3_
.....uaaagugcuuauagugcaggua.....		3	1	Z3_
.....uaaagugcuuauagugcaggua.....		4	1	Z3_
.....uaaagugcuuauagugcagAuag.....		1	1	Z3_
.....uaaagugcuuauagugcagUga.....		2	1	Z3_
.....uaaagugcuuauagugcagguaA.....		56	1	Z3_
.....uaaagugcuuauaAugcaggua.....		1	1	Z3_
.....aaaagugcuuauagugcagguaG.....		4	1	Z3_
.....aaaagugcuuauagCgcaggua.....		7	1	Z3_
.....uaaagugcuuauaguAcaggua.....		1	1	Z3_
.....uaaagugcuuauAgugcaggua.....		3	1	Z3_
.....uaGagugcuuauagugcaggua.....		6	1	Z3_
.....uaaagugAuuauauagugcaggua.....		1	1	Z3_
.....uGaagugcuuauagugcaggua.....		1	1	Z3_
.....uaaagugcuuauagugcaggua.....		1	1	Z3_
.....uaaGgugcuuauagugcaggua.....		7	1	Z3_
.....uaaagugcuuauagugcagguaU.....		5	1	Z3_
.....uaaagugcuuauagugcaggua.....		717	0	Z3_

hsa-miR-20a-5p

hsa-miR-20a-3p

guagcacuaaagugcuuauagugcagguagguuuuaguuacuacugcauuaugagcacuuuaagucgc

.....uaaagugcuuauagugc <u>Uggua</u> g.....	1	1	z3_
.....uaaagugcuuauagug <u>Uaggua</u> g.....	1	1	z3_
.....uaaagug <u>Uuuua</u> agugcagg <u>ua</u> g.....	1	1	z3_
.....uaaagugcuuauagugcagg <u>Cag</u>	4	1	z3_
.....uaaagugcuuGuauagugcagg <u>ua</u> g.....	1	1	z3_
.....uaaagugcGuauagugcagg <u>ua</u> g.....	2	1	z3_
.....uaaagugc <u>Gc</u> uuauagugcagg <u>ua</u> g.....	1	1	z3_
.....Caaagugcuuauagugcagg <u>ua</u> g.....	4	1	z3_
.....uaaagugcuuauGgugcagg <u>ua</u> g.....	1	1	z3_
.....uaaagugcuuauagugcagg <u>aC</u>	3	1	z3_
.....uaaagugcCuauagugcagg <u>ua</u> g.....	3	1	z3_
.....Gaaagugcuuauagugcagg <u>ua</u> g.....	2	1	z3_
.....uaaagCgcuuauagugcagg <u>ua</u> g.....	1	1	z3_
.....uaaagugcuuauagugcagg <u>gu</u>	3	1	z3_
.....uaaagugcuuau <u>U</u> gcagg <u>ua</u> g.....	1	1	z3_
.....uaaagugcuuGuagugcagg <u>ua</u> g.....	1	1	z3_
.....uaaGgugcuuauagugcagg <u>ua</u> g.....	4	1	z3_
.....uaaagug <u>Uuuua</u> agugcagg <u>ua</u> g.....	1	1	z3_
.....uaaagugcuuauagugcagg <u>aC</u>	4	1	z3_
.....uaaagugcuuauagug <u>Uaggua</u> g.....	1	1	z3_
.....uaaagugcuuauagugcagg <u>A</u>	678	1	z3_
.....uaaagugcuuauagugcagg <u>agu</u>	134	0	z3_
.....uaaagugcuuauag <u>Cg</u> cagg <u>gu</u>	1	1	z3_
.....uaaagugcuuauagugcagg <u>guG</u>	17	1	z3_
.....uaaagugcuuauagugcagg <u>Ag</u>	2	1	z3_
.....uaaagugcuuauagugcagg <u>Agu</u>	1	1	z3_
.....Uaagugcuuauagugcagg <u>u</u>	1	1	z3_
.....Uaagugcuuauagugcagg <u>u</u>	1	1	z3_
.....acugcauuau <u>ag</u> ac <u>uu</u> aa.....	1	0	z3_
cuu <u>aa</u> agugcuuauagugcagg <u>ua</u> g.....	4	0	z1_
.....uaa <u>ag</u> ug <u>Uuuua</u> uagug <u>Cagg</u>	1	1	z1_
.....uaa <u>ag</u> ug <u>cuuau</u> uagug <u>Uagg</u>	1	1	z1_
.....uaa <u>ag</u> ug <u>cuuau</u> uag <u>u</u> gg <u>Ccagg</u>	1	1	z1_
.....Aaa <u>ag</u> ug <u>cuuau</u> uagug <u>Cagg</u>	1	1	z1_
.....uaa <u>ag</u> ug <u>cuuau</u> uagug <u>Cagg</u>	77	0	z1_
.....uaa <u>ag</u> ug <u>cuuau</u> uagug <u>CaggA</u>	1	1	z1_
.....uaa <u>ag</u> ug <u>cuuau</u> uagug <u>Ggg</u>	1	1	z1_
.....u <u>Ua</u> agug <u>cuuau</u> uagug <u>Cagg</u>	1	1	z1_
.....uaa <u>ag</u> ug <u>cuuau</u> u <u>Cag</u> ug <u>Cagg</u>	1	1	z1_
.....uaa <u>ag</u> ug <u>cuuau</u> uagug <u>CaggC</u>	3	1	z1_
.....uaa <u>ag</u> ug <u>cuuau</u> uagug <u>Cag</u> Au.....	1	1	z1_
.....uaa <u>ag</u> ug <u>cuuau</u> uagug <u>Cagg</u> ua.....	39	0	z1_
.....uaa <u>ag</u> ug <u>cuuau</u> u <u>Cag</u> ug <u>Cagg</u> ua.....	1	1	z1_
.....Caa <u>ag</u> ug <u>cuuau</u> uagug <u>Cagg</u> ua.....	2	1	z1_
.....uaa <u>ag</u> ug <u>cuuau</u> uagug <u>Cagg</u> uG.....	1	1	z1_
.....uaa <u>ag</u> ug <u>cuuau</u> u <u>Gg</u> ug <u>Cagg</u> ua.....	1	1	z1_
.....ua <u>Gag</u> ug <u>cuuau</u> uagug <u>Cagg</u> ua.....	4	1	z1_
.....uaa <u>ag</u> ug <u>cuuau</u> uagug <u>Cagg</u> uG.....	4	1	z1_
.....uaa <u>ag</u> ug <u>cuuau</u> uagug <u>Cagg</u> Gag.....	1	1	z1_
.....uaa <u>ag</u> ug <u>cuuau</u> u <u>Cag</u> ug <u>Cagg</u> ag.....	1	1	z1_
.....ua <u>Uag</u> ug <u>cuuau</u> uagug <u>Cagg</u> ag.....	1	1	z1_
.....Caa <u>ag</u> ug <u>cuuau</u> uagug <u>Cagg</u> ag.....	2	1	z1_
.....uaa <u>ag</u> ug <u>cuuau</u> u <u>Ag</u> ug <u>Ccagg</u> ag.....	3	1	z1_
.....uaa <u>ag</u> ug <u>cuuau</u> uagug <u>Ugg</u> ua.....	2	1	z1_
.....uaa <u>ag</u> ug <u>C</u> uuau <u>u</u> agug <u>Cagg</u> ua.....	5	1	z1_
.....uaa <u>ag</u> ug <u>cuuau</u> uagug <u>Cagg</u> Cag.....	5	1	z1_
.....uaa <u>ag</u> ug <u>Uuuua</u> uagug <u>Cagg</u> ua.....	5	1	z1_
.....ua <u>Gg</u> ug <u>cuuau</u> uagug <u>Cagg</u> ua.....	1	1	z1_
.....uaa <u>ag</u> ug <u>cuuau</u> u <u>Ag</u> u <u>Ucagg</u> ua.....	2	1	z1_
.....uaa <u>ag</u> ug <u>cuuau</u> uagug <u>Ggg</u> ua.....	6	1	z1_
.....Aaa <u>ag</u> ug <u>cuuau</u> uagug <u>Cagg</u> ua.....	1	1	z1_
.....uaa <u>ag</u> ug <u>cuu</u> Guagug <u>Cagg</u> ua.....	1	1	z1_
.....uaa <u>ag</u> ug <u>cuuau</u> uagug <u>Cagg</u> uaC.....	1	1	z1_
.....u <u>Ga</u> agug <u>cuuau</u> uagug <u>Cagg</u> ua.....	4	1	z1_
.....uaa <u>ag</u> ug <u>cuuau</u> uagug <u>Uagg</u> ua.....	2	1	z1_
.....uaa <u>ag</u> ug <u>cuuau</u> u <u>Gc</u> u <u>u</u> agug <u>Cagg</u> ua.....	2	1	z1_
.....uaa <u>ag</u> ug <u>cuuau</u> uagug <u>Cagg</u> ua.....	717	0	z1_
.....uaa <u>ag</u> ug <u>cuuau</u> u <u>Ag</u> u <u>Cagg</u> ua.....	3	1	z1_

hsa-miR-20a-5p

hsa-miR-20a-3p

guagcacuaaagugcuuuauagugcagguaguquuuuaguuacuacugcauuauaggccacuuuaaaguacugc

.....uaaagugcuuuauagugcagguaA.....	31	1	z1_
.....uaaagugcuCauagugcaggua.....	1	1	z1_
.....uaaagugcuCauagugcaggua.....	1	1	z1_
.....Caaagugcuuuauagugcaggua.....	2	1	z1_
.....uaaagugcuuuauagugcagguaG.....	2	1	z1_
.....uaaagGgcuuuuagugcaggua.....	1	1	z1_
.....uaaagugCuuuuagugcaggua.....	1	1	z1_
.....uaaagugcuuuuagugcagguaG.....	8	1	z1_
.....uGagugcuuuauagugcaggua.....	1	1	z1_
.....uaaagugcuuuu <u>Cagugcaggua</u>	1	1	z1_
.....uaaagug <u>Uuuuuagugcaggua</u>	1	1	z1_
.....uaaagugcuuuauagugcagguaG.....	14	1	z1_
.....uaaagugcuuuauagu <u>Caggua</u>	1	1	z1_
.....uaaagugcuuuauagug <u>Uaggua</u>	1	1	z1_
.....uaGagugcuuuauagugcaggua.....	2	1	z1_
.....uaaagugcu <u>Gauagugcaggua</u>	1	1	z1_
.....uaaagugcuuuauagugcaggua.....	244	0	z1_
.....uaaagugcuuuauagug <u>Gggua</u>	1	1	z1_
.....uaaagugcuuuauagug <u>Cggua</u>	2	1	z1_
.....uaaagugcuuuauagug <u>Gggua</u>	607	1	z1_
.....uaaagug <u>Uuuuuagugcaggua</u>	2	1	z1_
.....uaaGgugcuuuauagugcaggua.....	1	1	z1_
.....uaaagugcuuuau <u>Uggcaggua</u>	1	1	z1_
.....uaaagugcuuuau <u>Auggcaggua</u>	1	1	z1_
.....uaaagugcuuuau <u>Agggcaggua</u>	1	1	z1_
.....uaaagugcuuuau <u>Agggcaggua</u>	2	1	z2_
.....uaaagugcuuuau <u>Agggcagg</u>	2	0	z2_
.....uaaagugcuuuau <u>Aggg</u>	1	1	z2_
.....uaaagugcuuuau <u>Aggg</u>	1	1	z2_
.....Aaaagugcuuuau <u>Aggg</u>	1	1	z2_
.....uaaagugcuuuau <u>AgggC</u>	12	1	z2_
.....uGagugcuuuau <u>Aggg</u>	7	1	z2_
.....uaaagug <u>Cuuauagugcagg</u>	1	1	z2_
.....uaaagug <u>Cuuauag</u>	1	1	z2_
.....uaaagug <u>Cuuauagu</u>	1	1	z2_
.....uaaagug <u>Cuuauag</u>	1	1	z2_
.....uaaagug <u>Cuuaua</u>	3	1	z2_
.....uaaagug <u>Cuuaua</u>	139	0	z2_
.....uaaagug <u>Cuuaua</u>	1	1	z2_
.....uaaagug <u>Cuuaua</u>	73	0	z2_
.....uaaagu <u>Cuuaua</u>	2	1	z2_
.....uaaagug <u>Cuuaua</u>	2	1	z2_
.....uaaagug <u>Cuuuu</u>	1	1	z2_
.....uaaagug <u>Cuuuu</u>	3	1	z2_
.....uaaagug <u>Cuuuu</u>	3	1	z2_
.....uaaagug <u>Cuuuu</u>	2	1	z2_
.....uaaagug <u>Cuuuu</u>	4	1	z2_
.....uUagug <u>Cuuuu</u>	4	1	z2_
.....uaaagug <u>Cuuuu</u>	2	1	z2_
.....uaaUgug <u>Cuuuu</u>	1	1	z2_
.....uaaagug <u>Cuuuu</u>	1	1	z2_
.....uaaagug <u>Cuuuu</u>	1	1	z2_
.....uaaagug <u>Cuuuu</u>	3	1	z2_
.....uaaagug <u>Cuuuu</u>	2	1	z2_
.....uaaagug <u>Cuuuu</u>	2	1	z2_
.....uaaagug <u>Cuuuu</u>	5	1	z2_
.....uaaagug <u>Cuuuu</u>	4	1	z2_
.....uaaagug <u>Cuuuu</u>	18	1	z2_
.....Caaagug <u>Cuuuu</u>	11	1	z2_
.....uaaagug <u>Cuuuu</u>	1	1	z2_
.....uaaagug <u>Cuuuu</u>	3	1	z2_
.....uaaagug <u>Cuuuu</u>	3	1	z2_
.....uaaagug <u>Cuuuu</u>	8	1	z2_
.....uaaagug <u>Cuuuu</u>	2	1	z2_
.....uaaagug <u>Cuuuu</u>	6	1	z2_
.....uGagug <u>Cuuuu</u>	5	1	z2_
.....uaaagug <u>Cuuuu</u>	1	1	z2_
.....uaaagug <u>Cuuuu</u>	1	1	z2_
.....uaaagug <u>Cuuuu</u>	3	1	z2_
.....uaaagug <u>Cuuuu</u>	16	1	z2_
.....uaaagug <u>Cuuuu</u>	8	1	z2_

hsa-miR-20a-5p

hsa-miR-20a-3p

guagcacuaaagugcuuuauagugcagguaguquuuuaguuaucuacugcauuauaggcacuuuaaaguacugc

.....uaaagugcuuuauagu <u>A</u> caggua.....	3	1	Z2_
.....uaaagug <u>c</u> uau <u>agugcaggua</u> g.....	7	1	Z2_
.....uaaa <u>λ</u> ug <u>cuuuauagugcaggua</u> g.....	4	1	Z2_
.....uaa <u>agugcuuuauagugcaggua</u> C.....	4	1	Z2_
.....uaa <u>agugcuuuauagugcaggua</u> g.....	2042	0	Z2_
.....uaa <u>agugcuuuauagugUaggua</u> g.....	3	1	Z2_
.....uaa <u>agugcuuuauUggcaggua</u> g.....	1	1	Z2_
.....ua <u>Ggugcuuuauagugcaggua</u> g.....	5	1	Z2_
.....ua <u>Uagugcuuuauagugcaggua</u> g.....	1	1	Z2_
.....uaa <u>agugcuuuauagugca</u> Uguag.....	1	1	Z2_
.....uaa <u>agu</u> A <u>cuuuauagugcaggua</u> g.....	2	1	Z2_
.....uaa <u>agugcuuuauagugcaggua</u> A.....	68	1	Z2_
.....uaa <u>agCgcuuauagugcaggua</u> g.....	3	1	Z2_
.....uaa <u>agugcuuUuagugcaggua</u> g.....	1	1	Z2_
.....ua <u>Gagugcuuuauagugcaggua</u> g.....	12	1	Z2_
.....uaa <u>agugcuuaCagugcaggua</u> g.....	9	1	Z2_
.....uaa <u>agugcuGuagugcaggua</u> g.....	10	1	Z2_
.....uaa <u>agugcuuuauagugλaggua</u> g.....	1	1	Z2_
.....uaa <u>agu</u> U <u>cuuuauagugcaggua</u> g.....	1	1	Z2_
.....uaa <u>agugcuuaCagugcaggua</u> g.....	1	1	Z2_
.....ua <u>Ggugcuuuauagugcaggua</u> g.....	1	1	Z2_
.....uaa <u>agugcuuuauagugcaggua</u> gA.....	1283	1	Z2_
.....uaa <u>agugcuuuauagCgcaggua</u> g.....	1	1	Z2_
.....uaa <u>agugcuuGuagugcaggua</u> g.....	1	1	Z2_
.....uaa <u>agugcuuuauagugcaggua</u> g.....	69	0	Z2_
.....uaa <u>agugUuuuuauagugcaggua</u> g.....	6	1	Z2_
.....uaa <u>agugcuuuauagugcaggua</u> C.....	11	1	Z2_
.....uaa <u>agugcuuuauagugcaggua</u> G.....	17	1	Z2_
.....uaa <u>agCgcuuuuauagugcaggua</u> g.....	1	1	Z2_
.....uaa <u>agugcuuuauagugcGggua</u> g.....	2	1	Z2_
.....uaa <u>agugcuuuauagugcaggua</u> A.....	2	1	Z2_
.....uaa <u>agugcuuuauagugcaggua</u> Ag.....	6	1	Z2_
.....aa <u>agugcuuaλagugcaggua</u> g.....	1	1	Z2_
.....Ua <u>agugcuuuauagugcaggua</u> g.....	4	1	Z2_
.....acug <u>cauuauagagcacuuuaa</u> ag.....	2	0	Z2_
uaa <u>agugcuuuauagugca</u>	1	0	GDM
.....uaa <u>agugcuuuauagugUag</u>	2	1	GDM
.....uaa <u>agugcCuuauagugcagg</u>	2	1	GDM
.....uaa <u>agugcuuuauagugcagg</u>	20	0	GDM
.....uaa <u>agugcuuuauagugcagg</u>	20	0	GDM
.....uaa <u>agugcuuuauagugUagg</u>	7	1	GDM
.....uaa <u>agugcuuuauagugcagg</u>	20	0	GDM
.....uaa <u>agugcuuuauagugcagg</u>	550	0	GDM
.....uaa <u>agugcuuuauagugcÜgg</u>	1	1	GDM
.....uaa <u>agugcuCuuauagugcagg</u>	7	1	GDM
.....ua <u>Ggugcuuuauagugcagg</u>	7	1	GDM
.....uaa <u>agugcuuuauagugcGgg</u>	7	1	GDM
.....uaa <u>agugcuuuauagugcagg</u>	550	0	GDM
.....uaa <u>agugcuuuauagugUagg</u>	1	1	GDM
.....uaa <u>agGgcuuuuauagugcagg</u>	1	1	GDM
.....uaa <u>agugcuuaCagugcagg</u>	7	1	GDM
.....uaa <u>agugcuuaCagugcagg</u>	7	1	GDM
.....uaa <u>λugcuuuauagugcagg</u>	1	1	GDM
.....uaa <u>agugCuuauagugcagg</u>	2	1	GDM
.....uaa <u>agugcuuuauCggcagg</u>	1	1	GDM
.....uaa <u>agugcuuuauagugcagg</u> C.....	44	1	GDM
.....uaa <u>agugcuuaλagugcagg</u>	1	1	GDM
.....uaa <u>agugcuuuauagugcagg</u> A.....	16	1	GDM
.....ua <u>Ggugcuuuauagugcagg</u>	7	1	GDM
.....uaa <u>agugcuuuauagugcagg</u> A.....	2	1	GDM
.....uaa <u>agugcuCuuauagugcagg</u>	7	1	GDM
.....uaa <u>agCgcuuuuauagugcagg</u>	2	1	GDM
.....uaa <u>agugcuuuauagugcagg</u>	7	1	GDM
.....uaa <u>agugcuuuauagCgcagg</u>	3	1	GDM
.....uaa <u>agugcuuuauagugcagg</u> A.....	16	1	GDM
.....ua <u>Uagugcuuuauagugcagg</u>	1	1	GDM
.....uaa <u>agugcuuuauagugcagg</u> G.....	3	1	GDM
.....uaa <u>agugcuuuuaλugcagg</u>	2	1	GDM

hsa-miR-20a-5p

hsa-miR-20a-3p

guagcacaaaagugcuuauagugcagguaguuuuaguuacuacugcauuaugagcacuuuaguacugc

.....uaaagugcuuauagugcaggC.....	44	1	GDM
.....uaaagugcuuauagCgcaggU.....	3	1	GDM
.....uaaagugcuuauagugcGggU.....	7	1	GDM
.....uGagugcuuauagugcaggU.....	1	1	GDM
.....uaaagugcuuauagugcaggU.....	550	0	GDM
.....aaaaUugcuuauagugcaggU.....	1	1	GDM
.....uaaagugcuuauagugcaggG.....	3	1	GDM
.....uaaagugcuuauagugcaggC.....	44	1	GDM
.....uaaaguUcuuauagugcaggU.....	1	1	GDM
.....CaaagugcuuauagugcaggU.....	1	1	GDM
.....uaaGgugcuuauagugcaggU.....	7	1	GDM
.....uaaaguAcuuauagugcaggU.....	1	1	GDM
.....uaGagugcuuauagugcaggU.....	1	1	GDM
.....uaaagugcuuauagugcGggU.....	7	1	GDM
.....uaaagugcuuauagugcaggG.....	3	1	GDM
.....uaaagugcuuauagugcaggA.....	2	1	GDM
.....uaaagugcuuauagugcaggA.....	16	1	GDM
.....uaaagugcuAuauagugcaggua.....	1	1	GDM
.....uaaagugcuuauGgugcaggua.....	1	1	GDM
.....Caaagugcuuauagugcaggua.....	4	1	GDM
.....uaaagugcuuauagCgcaggua.....	3	1	GDM
.....uaaagugcuuauagugUaggua.....	7	1	GDM
.....uaaagugcuuauagugcaggU.....	4	1	GDM
.....uCaagugcuuauagugcaggua.....	1	1	GDM
.....uaaagugcuuauAuggaggua.....	2	1	GDM
.....uaaagugcuuauagugcaggU.....	4	1	GDM
.....uaaagugcuuauagugcaggU.....	4	1	GDM
.....uaaaguUcuuauagugcaggua.....	1	1	GDM
.....uaaagugcuuauagugcaggU.....	4	1	GDM
.....uaaagugcuuauCagugcaggua.....	10	1	GDM
.....uaaagugcΔuuauagugcaggua.....	1	1	GDM
.....uaaagugcuuauCagugcaggua.....	10	1	GDM
.....uaaagugcuCauauagugcaggua.....	2	1	GDM
.....Caaagugcuuauagugcaggua.....	4	1	GDM
.....uaaagugcuuGuagugcaggua.....	1	1	GDM
.....uaaGgugcuuauagugcaggua.....	3	1	GDM
.....uaaagugcuuauagugcaggua.....	315	0	GDM
.....uaaagugcuuauagugcaggCa.....	2	1	GDM
.....uaaagugcuuauAuggaggua.....	2	1	GDM
.....uaaagugcuuauagugcaggua.....	315	0	GDM
.....Aaaagugcuuauagugcaggua.....	3	1	GDM
.....Aaaagugcuuauagugcaggua.....	3	1	GDM
.....Caaagugcuuauagugcaggua.....	4	1	GDM
.....uaaUgugcuuauagugcaggua.....	1	1	GDM
.....uaaagugcuuauagugUaggua.....	7	1	GDM
.....uaaagugcuuauagugcaggU.....	4	1	GDM
.....uaaagugcuuauagugcaggua.....	315	0	GDM
.....uaaGgugcuuauagugcaggua.....	3	1	GDM
.....uaGagugcuuauagugcaggua.....	1	1	GDM
.....uaaagugcuuauagCgcaggua.....	3	1	GDM
.....uaaagugcuuauCagugcaggua.....	24	1	GDM
.....uaaagugcuuauagugGaggua.....	2	1	GDM
.....uaaagugcuuauagugcaggU.....	2	1	GDM
.....uaaagugcuuauagugcUggua.....	9	1	GDM
.....uaaagugcAuauauagugcaggua.....	3	1	GDM
.....uaaagCgcuuauagugcaggua.....	16	1	GDM
.....uaaagugcuuauagugcaggU.....	7	1	GDM
.....uaaagugUuuauauagugcaggua.....	6	1	GDM
.....uaaagugcuuauagAgcaggua.....	2	1	GDM
.....uaaagugcuuauagugcagguaA.....	251	1	GDM
.....uaaagugcuuauagugcagguaU.....	13	1	GDM
.....uaaagugcuuUuagugcaggua.....	3	1	GDM
.....uaaagugcuuauaguUcaggua.....	2	1	GDM
.....Gaaagugcuuauagugcaggua.....	3	1	GDM
.....uaaagugCuuauagugcaggua.....	18	1	GDM
.....uaaagugcuuauaguCcaggua.....	5	1	GDM
.....uaaagugcuuauagugcagguaC.....	11	1	GDM
.....uaaagugcuuauagugcaUguag.....	1	1	GDM
.....uaaagugcuuGuagugcaggua.....	7	1	GDM

hsa-miR-20a-5p

hsa-miR-20a-3p

guagcacuaaagugcuuuauagugcagguaguquuuaguuaucuacugcauuauaggcacuuuaaguacugc

.....uaaagugcuua <u>a</u> agugcaggua.....	1	1	GDM
.....uaaagugcuuuau <u>ag</u> ugc <u>U</u> ggua.....	9	1	GDM
.....uaaagugcuuuau <u>U</u> ggcaggua.....	2	1	GDM
.....uaaagugcuuuau <u>U</u> ggcaggua.....	2	1	GDM
.....uaaagugcuuuau <u>U</u> ggcagguaA.....	251	1	GDM
.....uaaagugcuuuau <u>ag</u> ugcagg <u>C</u> g.....	78	1	GDM
.....uaaagugcuuuau <u>gg</u> ugcaggua.....	24	1	GDM
.....ua <u>G</u> agugcuuuau <u>ag</u> ugcaggua.....	17	1	GDM
.....Aaaagugcuuuau <u>ag</u> ugcaggua.....	3	1	GDM
.....ua <u>ag</u> u <u>A</u> cuuuau <u>ag</u> ugcaggua.....	6	1	GDM
.....ua <u>agu</u> <u>U</u> cuuuau <u>ag</u> ugcaggua.....	2	1	GDM
.....ua <u>ag</u> ugcuuuau <u>ag</u> ug <u>C</u> ggua.....	1	1	GDM
.....ua <u>ag</u> ugcuuuau <u>gg</u> ugcaggua.....	24	1	GDM
.....Caa <u>ag</u> ugcuuuau <u>ag</u> ugcaggua.....	19	1	GDM
.....Gaa <u>ag</u> ugcuuuau <u>ag</u> ugcaggua.....	3	1	GDM
.....ua <u>a</u> G <u>g</u> ugcuuuau <u>ag</u> ugcaggua.....	21	1	GDM
.....ua <u>aa</u> agug <u>U</u> uuau <u>ag</u> ugcaggua.....	6	1	GDM
.....ua <u>aa</u> agu <u>A</u> cuuuau <u>ag</u> ugcaggua.....	6	1	GDM
.....ua <u>aa</u> agug <u>C</u> uuau <u>ag</u> ugcaggua.....	18	1	GDM
.....ua <u>aa</u> agugcuuuau <u>ag</u> ug <u>C</u> ggua.....	31	1	GDM
.....u <u>C</u> a <u>ag</u> ugcuuuau <u>ag</u> ugcaggua.....	1	1	GDM
.....ua <u>a</u> G <u>g</u> ugcuuuau <u>ag</u> ugcaggua.....	21	1	GDM
.....u <u>G</u> a <u>ag</u> ugcuuuau <u>ag</u> ugcaggua.....	13	1	GDM
.....ua <u>aa</u> agugcuuu <u>a</u> Agugcaggua.....	24	1	GDM
.....ua <u>aa</u> agugcuuuau <u>ag</u> ug <u>G</u> ggua.....	2	1	GDM
.....ua <u>aa</u> agugcuuuau <u>ag</u> ug <u>C</u> ggua.....	13	1	GDM
.....ua <u>aa</u> agugcuuuau <u>ag</u> ug <u>C</u> ggua.....	2	1	GDM
.....Aaa <u>ag</u> ugcuuuau <u>ag</u> ugcaggua.....	3	1	GDM
.....ua <u>aa</u> agug <u>C</u> uuau <u>ag</u> ugcaggua.....	3	1	GDM
.....u <u>U</u> a <u>ag</u> ugcuuuau <u>ag</u> ugcaggua.....	1	1	GDM
.....ua <u>aa</u> agugcuuuau <u>U</u> ggcaggua.....	2	1	GDM
.....ua <u>aa</u> U <u>ag</u> ugcuuuau <u>ag</u> ugcaggua.....	8	1	GDM
.....Gaa <u>ag</u> ugcuuuau <u>ag</u> ug <u>C</u> ggua.....	3	1	GDM
.....ua <u>aa</u> agugcuuuau <u>ag</u> u <u>A</u> caggua.....	3	1	GDM
.....ua <u>aa</u> agugcuuuau <u>ag</u> ug <u>C</u> ggua.....	4236	0	GDM
.....ua <u>aa</u> agugcuuuau <u>ag</u> ug <u>C</u> ggua.....	2	1	GDM
.....ua <u>aa</u> agugcuuuau <u>ag</u> ug <u>C</u> gg <u>G</u> g.....	5	1	GDM
.....ua <u>aa</u> agugcuuuau <u>ag</u> ug <u>C</u> gg <u>G</u> g.....	17	1	GDM
.....ua <u>aa</u> ag <u>C</u> guuuau <u>ag</u> ugcaggua.....	16	1	GDM
.....ua <u>aa</u> agug <u>C</u> guuuau <u>ag</u> ugcaggua.....	1	1	GDM
.....ua <u>aa</u> U <u>ag</u> ugcuuuau <u>ag</u> ugcaggua.....	8	1	GDM
.....ua <u>aa</u> agugcuuuau <u>ag</u> ug <u>G</u> ggua.....	15	1	GDM
.....ua <u>aa</u> agugcuuuau <u>ag</u> ug <u>G</u> ggua.....	11	1	GDM
.....ua <u>aa</u> agugcuuuau <u>ag</u> ug <u>G</u> gg <u>A</u> u.....	5	1	GDM
.....ua <u>aa</u> agugcuuuau <u>ag</u> ug <u>G</u> gg <u>A</u> u.....	2	1	GDM
.....ua <u>aa</u> U <u>ag</u> ugcuuuau <u>ag</u> ug <u>G</u> gg <u>A</u> u.....	8	1	GDM
.....ua <u>aa</u> agugcuuuau <u>ag</u> ug <u>G</u> gg <u>A</u> u.....	31	1	GDM
.....ua <u>aa</u> ag <u>C</u> guuuau <u>ag</u> ug <u>G</u> ggua.....	16	1	GDM
.....ua <u>aa</u> agugcuuuau <u>ag</u> ug <u>G</u> gg <u>A</u> u.....	5	1	GDM
.....ua <u>aa</u> agug <u>C</u> guuuau <u>ag</u> ug <u>G</u> ggua.....	22	1	GDM
.....Caa <u>ag</u> ugcuuuau <u>ag</u> ug <u>G</u> ggua.....	19	1	GDM
.....ua <u>aa</u> agug <u>C</u> guuuau <u>ag</u> ug <u>G</u> ggua.....	22	1	GDM
.....ua <u>aa</u> agugcuuuau <u>ag</u> ug <u>G</u> gg <u>A</u> u.....	13	1	GDM
.....ua <u>aa</u> U <u>ag</u> ugcuuuau <u>ag</u> ug <u>G</u> gg <u>A</u> u.....	3	1	GDM
.....ua <u>aa</u> agugcuuuau <u>ag</u> u <u>A</u> cg <u>G</u> ggua.....	2	1	GDM
.....ua <u>aa</u> agugcuuuau <u>ag</u> u <u>A</u> cg <u>G</u> ggua.....	23	1	GDM
.....ua <u>aa</u> agugcuuuau <u>ag</u> u <u>A</u> cg <u>G</u> ggua.....	11	1	GDM
.....ua <u>aa</u> agugcuuuau <u>ag</u> u <u>A</u> cg <u>G</u> ggua.....	3	1	GDM
.....ua <u>aa</u> C <u>g</u> ugcuuuau <u>ag</u> ug <u>G</u> ggua.....	1	1	GDM
.....ua <u>aa</u> agug <u>C</u> guuuau <u>ag</u> ug <u>G</u> ggua.....	22	1	GDM
.....ua <u>aa</u> agugcuuuau <u>ag</u> ug <u>G</u> gg <u>A</u>	251	1	GDM
.....ua <u>aa</u> agugcuuuau <u>ag</u> u <u>C</u> cg <u>G</u> ggua.....	5	1	GDM
.....ua <u>aa</u> agug <u>U</u> uu <u>ag</u> ug <u>G</u> ggua.....	3	1	GDM
.....ua <u>aa</u> agugcuuuau <u>ag</u> u <u>U</u> gg <u>G</u> ggua.....	15	1	GDM
.....ua <u>aa</u> U <u>G</u> ugcuuuau <u>ag</u> ug <u>G</u> ggua.....	21	1	GDM
.....ua <u>aa</u> Ag <u>u</u> cuuuau <u>ag</u> ug <u>G</u> ggua.....	4	1	GDM
.....ua <u>aa</u> agugcuuuau <u>ag</u> ug <u>G</u> gg <u>G</u>	7	1	GDM
.....ua <u>aa</u> agugcuuuau <u>ag</u> ug <u>G</u> gg <u>G</u>	13	1	GDM
.....ua <u>aa</u> U <u>G</u> ugcuuuau <u>ag</u> ug <u>G</u> ggua.....	2	1	GDM

hsa-miR-20a-5p

hsa-miR-20a-3p

guagcacuaaagugcuuuauagugcagguaguquuuuaguuacuacugcauuauaggcacuuaaaaguacugc

.....uGaa <u>gugcuuuauagugcaggua</u> g.....	13	1	GDM
.....uaa <u>agugcuuCuagugcaggua</u> g.....	2	1	GDM
.....ua <u>Cagugcuuuauagugcaggua</u> g.....	1	1	GDM
.....uaa <u>agugcuuuauagCgcaggua</u> g.....	23	1	GDM
.....uaa <u>agugAuuauagugcaggua</u> g.....	2	1	GDM
.....uaa <u>Augcuuuauagugcaggua</u> g.....	3	1	GDM
.....uaa <u>agugcuuuauagugcaggua</u> g.....	4236	0	GDM
.....uaa <u>agugcuuuauCgugcaggua</u> g.....	1	1	GDM
.....Caa <u>agugcuuuauagugcaggua</u> g.....	19	1	GDM
.....uaa <u>agugUuuauagugcaggua</u> g.....	6	1	GDM
.....uaa <u>agugcuuuauagugcaggCag</u>	13	1	GDM
.....uaa <u>agugcuuuauagugcUggua</u> g.....	9	1	GDM
.....uaa <u>Ugugcuuuauagugcaggua</u> g.....	2	1	GDM
.....uaa <u>agugcuuuauagugcaggCag</u>	13	1	GDM
.....uaa <u>agugcuuuauagugUaggua</u> g.....	15	1	GDM
.....uaa <u>agugcCuuuauagugcaggua</u> g.....	18	1	GDM
.....uaa <u>agugcuuuauaCagugcaggua</u> g.....	24	1	GDM
.....uaa <u>agugcuGuauagugcaggua</u> g.....	1	1	GDM
.....uaa <u>agugcuuuauagCgcaggua</u> g.....	23	1	GDM
.....uaa <u>agugcuuuauGgugcaggua</u> g.....	24	1	GDM
.....uaa <u>agugcuuuauagugcaggua</u> g.....	4	1	GDM
.....uaa <u>agugcuuuauUgugcaggua</u> g.....	2	1	GDM
.....uaa <u>agugcuuuauagugcGggua</u> g.....	31	1	GDM
.....uaa <u>agugcuuuauagugcaAguag</u>	2	1	GDM
.....uaa <u>agugcuuuauagugcaggua</u> g.....	4236	0	GDM
.....ua <u>Gagugcuuuauagugcaggua</u> g.....	17	1	GDM
.....u <u>Gagugcuuuauagugcaggua</u> g.....	13	1	GDM
.....ua <u>aguAcuuuuauagugcaggua</u> g.....	6	1	GDM
.....uaa <u>agugcuuuauagugUaggua</u> g.....	6	1	GDM
.....ua <u>Ggugcuuuauagugcaggua</u> g.....	6	1	GDM
.....uaa <u>agugcuuuauagugcaggua</u> A.....	2861	1	GDM
.....uaa <u>agugcuuuauagugcaggua</u> C.....	44	1	GDM
.....uaa <u>agCguuuauagugcaggua</u> g.....	4	1	GDM
.....uaa <u>agugcuuGuagugcaggua</u> g.....	2	1	GDM
.....uaa <u>agugcuuuauagugcaggua</u> Au.....	2	1	GDM
.....uaa <u>agugcuuuauagGgcaggua</u> g.....	1	1	GDM
.....uaa <u>agugcuuCaauagugcaggua</u> g.....	4	1	GDM
.....ua <u>Uagugcuuuauagugcaggua</u> g.....	3	1	GDM
.....uaa <u>agugcuuuauagugcaggua</u> C.....	44	1	GDM
.....uaa <u>agugcuuuauagugUaggua</u> g.....	6	1	GDM
.....u <u>Gagugcuuuauagugcaggua</u> g.....	3	1	GDM
.....uaa <u>agugcuuuauagugcaggCagu</u>	2	1	GDM
.....uaa <u>agugcuuuauagugcaggua</u> g.....	706	0	GDM
.....uaa <u>agugcuuuauagugcaggua</u> C.....	44	1	GDM
.....uaa <u>agugcuuuauagugcaggua</u> G.....	49	1	GDM
.....uaa <u>agugCuuauagugcaggua</u> g.....	10	1	GDM
.....uaa <u>agugcuuuauAuggcaggua</u> g.....	1	1	GDM
.....u <u>Uagugcuuuauagugcaggua</u> g.....	3	1	GDM
.....ua <u>Uagugcuuuauagugcaggua</u> g.....	3	1	GDM
.....ua <u>Gagugcuuuauagugcaggua</u> g.....	5	1	GDM
.....uaa <u>agugcuuGuagugcaggua</u> g.....	2	1	GDM
.....uaa <u>agugcuuuauagugcGggua</u> g.....	4	1	GDM
.....uaa <u>agugcuuaCagugcaggua</u> g.....	3	1	GDM
.....uaa <u>agugcuuuauagCgcaggua</u> g.....	5	1	GDM
.....uaa <u>agugcuuuauagAgcaggua</u> g.....	1	1	GDM
.....uaa <u>agugcuuuauagugcaggua</u> A.....	2861	1	GDM
.....uaa <u>agugcuuuauagugcaggua</u> Au.....	2	1	GDM
.....uaa <u>agugcuuuauaCagugcaggua</u> g.....	3	1	GDM
.....uaa <u>agugcuuuauUgugcaggua</u> g.....	1	1	GDM
.....uaa <u>agugcuuuauagugcaggua</u> Uu.....	1	1	GDM
.....uaa <u>agugcuuuauaCugcaggua</u> g.....	1	1	GDM
.....uaa <u>agugUuuuuauagugcaggua</u> g.....	1	1	GDM
.....ua <u>Gagugcuuuauagugcaggua</u> g.....	5	1	GDM
.....uaa <u>agugcuuCaauagugcaggua</u> g.....	4	1	GDM
.....uaa <u>agugcuuuauaguAcaggua</u> g.....	2	1	GDM
.....uaa <u>agugcuuuauagugcGggua</u> g.....	4	1	GDM
.....uaa <u>agugcuuuauagugcaggua</u> g.....	706	0	GDM
.....uaa <u>agugcuuuauaguAcaggua</u> g.....	2	1	GDM
.....uaa <u>agugcuuuauagugcaggua</u> g.....	706	0	GDM

hsa-miR-20a-5p

hsa-miR-20a-3p

guagcacuaaagugcuuuauagugcagguaguquuuuaguuaucuacugcauuauaggcacuuuaaaguacugc

.....uaaagugcuuuauGgugcaggua	4	1	GDM
.....uaaagugc <u>Cuauagugcaggua</u> gu	10	1	GDM
.....uaaagug <u>cAuauagugcaggua</u> gu	1	1	GDM
.....uaaagug <u>cuuuauagugUaggua</u> gu	6	1	GDM
.....uaaagug <u>cuuuauagugcaggua</u> gA	2861	1	GDM
.....uaaagug <u>cuuuauagCgcaggua</u> gu	5	1	GDM
.....uaaagug <u>cuuuauagugcaggua</u> Ugu	2	1	GDM
.....uaaagug <u>cuCauagugcaggua</u> gu	4	1	GDM
.....uaaagug <u>Cuauagugcaggua</u> gu	10	1	GDM
.....uaaGgug <u>cuuuauagugcaggua</u> gu	6	1	GDM
.....Caaagug <u>cuuuauagugcaggua</u> gu	9	1	GDM
.....uaaagug <u>Guaauagugcaggua</u> gu	1	1	GDM
.....uaaagug <u>cuuuauagugcaggua</u> gG	49	1	GDM
.....uaaagug <u>cuuuauagugcaggua</u> gG	49	1	GDM
.....Caaagug <u>cuuuauagugcaggua</u> gu	9	1	GDM
.....uaaagug <u>cuuuuGgugcaggua</u> gu	4	1	GDM
.....uaaagug <u>cuuuauagugcGggua</u> gu	4	1	GDM
.....uaaagug <u>cuuuauagugcaggGag</u> u	1	1	GDM
.....uaaagug <u>cuuuauagugcaggCag</u> u	2	1	GDM
.....uaaag <u>Cgcuuuuagugcaggua</u> gu	4	1	GDM
.....uaaagug <u>cuuuAagugcaggua</u> gu	1	1	GDM
.....uaaagug <u>cuuuauagugcaggua</u> U	5	1	GDM
.....Uaagug <u>cuuuauagugcagg</u>	1	1	GDM
.....Uaagug <u>cuuuauagugcagg</u>	3	1	GDM
.....Uaagug <u>cuuuauagugcagg</u>	3	1	GDM
.....Uaagug <u>cuuuauagugcagg</u>	9	1	GDM
.....Uaagug <u>cuuuauagugcagg</u>	9	1	GDM
.....aaagug <u>cuuuauagugcaggua</u> g	2	0	GDM
.....Uaagug <u>cuuuauagugcaggua</u> g	9	1	GDM
.....aaagug <u>cuuuauagugcaggua</u> gA	1	1	GDM
.....aaagug <u>cuuuauagugcaggua</u> gu	1	0	GDM
.....acug <u>cauuauagagcacuuuaa</u> agu	3	0	GDM
.....cug <u>cauuauagagcacuuuaa</u> ag	1	0	GDM
.....cug <u>cauuauagagcacuuuaa</u> agu	4	0	GDM