

## SEQUENCE LISTING

MicroRNA	Sequence	SEQ ID NO
hsa-let-7a	UGAGGUAGUAGGUUGUAUAGUU	1
hsa-let-7a*	CUAUACAAUCUACUGUCUUUC	2
hsa-let-7b	UGAGGUAGUAGGUUGUGUGGUU	3
hsa-let-7b*	CUAUACAACCUACUGCCUUCCC	4
hsa-let-7c	UGAGGUAGUAGGUUGUAUGGUU	5
hsa-let-7c*	UAGAGUUACACCCUGGGAGUUA	6
hsa-let-7d	AGAGGUAGUAGGUUGCAUAGUU	7
hsa-let-7d*	CUAUACGACCUGCUGCCUUUCU	8
hsa-let-7e	UGAGGUAGGAGGUUGUAUAGUU	9
hsa-let-7e*	CUAUACGGCCUCCUAGCUUUC	10
hsa-let-7f	UGAGGUAGUAGAUUGUAUAGUU	11
hsa-let-7f-1*	CUAUACAAUCUAAUUGCCUUCCC	12
hsa-let-7f-2*	CUAUACAGUCUACUGUCUUUCC	13
hsa-let-7g	UGAGGUAGUAGUUUGUACAGUU	14
hsa-let-7g*	CUGUACAGGCCACUGCCUUGC	15
hsa-let-7i	UGAGGUAGUAGUUUGUGCUGUU	16
hsa-let-7i*	CUGCGCAAGCUACUGCCUUGCU	17
hsa-miR-1	UGGAAUGUAAAGAAGUAUGUAU	18
hsa-miR-100	AACCCGUAGAUCCGAACUUGUG	19
hsa-miR-100*	CAAGCUUGUAUCUAUAGGUAUG	20
hsa-miR-101	UACAGUACUGUGAUAACUGAA	21
hsa-miR-101*	CAGUUAUCACAGUGCUGAUGCU	22
hsa-miR-103	AGCAGCAUUGUACAGGGCUAUGA	23
hsa-miR-105	UCAA AUGCUCAGACUCCUGUGGU	24
hsa-miR-105*	ACGGAUGUUUGAGCAUGUGCUA	25
hsa-miR-106a	AAAAGUGCUUACAGUGCAGGUAG	26
hsa-miR-106a*	CUGCAAUGUAAGCACUUCUAC	27
hsa-miR-106b	UAAAGUGCUGACAGUGCAGAU	28
hsa-miR-106b*	CCGCACUGUGGGUACUUGCUGC	29
hsa-miR-107	AGCAGCAUUGUACAGGGCUAUGA	30
hsa-miR-10a	UACCCUGUAGAUCCGAAUUUGUG	31
hsa-miR-10a*	CAA AUUCGUAUCUAGGGGAAUA	32
hsa-miR-10b	UACCCUGUAGAACCGAAUUUGUG	33
hsa-miR-10b*	ACAGAUUCGAUUCUAGGGGAAU	34
hsa-miR-122	UGGAGUGUGACAAUGGUGUUUG	35
hsa-miR-122*	AACGCCAUUAUCACACUAAUA	36
hsa-miR-124	UAAGGCACGCGGUGAAUGCC	37
hsa-miR-124*	CGUGUUCACAGCGGACCUUGAU	38
hsa-miR-125a-3p	ACAGGUGAGGUUCUUGGGAGCC	39

hsa-miR-125a-5p	UCCCUGAGACCCUUAACCUUGUGA	40
hsa-miR-125b	UCCCUGAGACCCUAACUUGUGA	41
hsa-miR-125b-1*	ACGGGUUAGGCUCUUGGGAGCU	42
hsa-miR-125b-2*	UCACAAGUCAGGCUCUUGGGAC	43
hsa-miR-126	UCGUACCGUGAGUAAUAAUGCG	44
hsa-miR-126*	CAUUAAUACUUUUGGUACGCG	45
hsa-miR-127-3p	UCGGAUCCGUCUGAGCUUGGCU	46
hsa-miR-127-5p	CUGAAGCUCAGAGGGCUCUGAU	47
hsa-miR-128a	UCACAGUGAACCGGUCUCUUU	48
hsa-miR-128b	UCACAGUGAACCGGUCUCUUU	49
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hsa-miR-129-5p	CUUUUUGCGGUCUGGGCUUGC	52
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hsa-miR-130a*	UUCACAUUGUGCUACUGUCUGC	54
hsa-miR-130b	CAGUGCAAUGAUGAAAGGGCAU	55
hsa-miR-130b*	ACUCUUUCCCUGUUGCACUAC	56
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hsa-miR-133b	UUUGGUCCCCUUAACCAGCUA	60
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hsa-miR-135a*	UAUAGGGAUUGGAGCCGUGGCG	63
hsa-miR-135b	UAUGGCUUUUCAUCCUAUGUGA	64
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hsa-miR-136	ACUCCAUUUGUUUUGAUGAUGGA	66
hsa-miR-136*	CAUCAUCGUCUCAAUGAGUCU	67
hsa-miR-137	UUAUUGCUUAAGAAUACGCGUAG	68
hsa-miR-138	AGCUGGUGUUGUGAAUCAGGCCG	69
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hsa-miR-138-2*	GCUAUUUCACGACACCAGGGUU	71
hsa-miR-139-3p	GGAGACGCGGCCCUUGUUGGAGU	72
hsa-miR-139-5p	UCUACAGUGCACGUGUCUCCAG	73
hsa-miR-140-3p	UACCACAGGGUAGAACCACGG	74
hsa-miR-140-5p	CAGUGGUUUUACCCUAUGGUAG	75
hsa-miR-141	UAACACUGUCUGGUAAAGAUGG	76
hsa-miR-141*	CAUCUCCAGUACAGUGUUGGA	77
hsa-miR-142-3p	UGUAGUGUUUCCUACUUUAUGGA	78
hsa-miR-142-5p	CAUAAAGUAGAAAGCACUACU	79
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hsa-miR-147b	GUGUGCGGAAAUGCUUCUGCUA	91
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hsa-miR-148a*	AAAGUUCUGAGACACUCCGACU	93
hsa-miR-148b	UCAGUGCAUCACAGAACUUUGU	94
hsa-miR-148b*	AAGUUCUGUUUAUACACUCAGGC	95
hsa-miR-149	UCUGGCUCGUGUCUUCACUCCC	96
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hsa-miR-150*	CUGGUACAGGCCUGGGGGACAG	99
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hsa-miR-15b	UAGCAGCACAUCAUGGUUUACA	110
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hsa-miR-16-2*	CCAAUAUUACUGUGCUGCUUUA	114
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hsa-miR-181a-2*	ACCACUGACCGUUGACUGUACC	119
hsa-miR-181b	AACAUUCAUUGCUGUCGGUGGGU	120
hsa-miR-181c	AACAUUCAACCGUCGGUGAGU	121
hsa-miR-181c*	AACCAUCGACCGUUGAGUGGAC	122
hsa-miR-181d	AACAUUCAUUGUUGUCGGUGGGU	123
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hsa-miR-182*	UGGUUCUAGACUUGCCAACUA	125

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hsa-miR-188-5p	CAUCCCUUGCAUGGUGGAGGG	136
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hsa-miR-18a*	ACUGCCCUAAGUGCUCUUCUGG	138
hsa-miR-18b	UAAGGUGCAUCUAGUGCAGUUAG	139
hsa-miR-18b*	UGCCCUAAAUGCCCUUCUGGC	140
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hsa-miR-190b	UGAU AUGUUUGAU AU UGGGUU	142
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hsa-miR-191*	GCUGCGCUUGGAUUUCGUCCCC	144
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hsa-miR-193b	AACUGGCCCUCAAAGUCCCGCU	149
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hsa-miR-196b	UAGGUAGUUUCCUGUUGUUGGG	157
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hsa-miR-199b-3p	ACAGUAGUCUGCACAUUGGUUA	162
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hsa-miR-19b	UGUGCAAUCCAUGCAAAACUGA	166
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hsa-miR-19b-2*	AGUUUUGCAGGUUUGCAUUUCA	168

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hsa-miR-200b	UAAUACUGCCUGGUA AUGAUGA	171
hsa-miR-200b*	CAUCUUACUGGGCAGCAUUGGA	172
hsa-miR-200c	UAAUACUGCCGGGUA AUGAUGGA	173
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hsa-miR-20a*	ACUGCAUUAUGAGCACUUAAG	184
hsa-miR-20b	CAAAGUGCUC AUAGUGCAGGUAG	185
hsa-miR-20b*	ACUGUAGUAUGGGCACU UCCAG	186
hsa-miR-21	UAGCUUAUCAGACUGAUGUUGA	187
hsa-miR-21*	CAACACCAGUCGAUGGGCUGU	188
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hsa-miR-216b	AAAUCUCUGCAGGCAA AUGUGA	196
hsa-miR-217	UACUGCAUCAGGAACUGAUUGGA	197
hsa-miR-218	UUGUGCUUGAUCUAACCAUGU	198
hsa-miR-218-1*	AUGGUUCCGUCAAGCACCAUGG	199
hsa-miR-218-2*	CAUGGUUCUGUCAAGCACCGCG	200
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hsa-miR-219-2-3p	AGAAUUGUGGCUGGACAUCUGU	202
hsa-miR-219-5p	UGAUUGUCCAAACGCAAUUCU	203
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hsa-miR-22*	AGUUCUUCAGUGGCAAGCUUUA	205
hsa-miR-220	CCACACCGUAUCUGACACUUU	206
hsa-miR-220b	CCACCACCGUGUCUGACACUU	207
hsa-miR-220c	ACACAGGGCUGUUGUGAAGACU	208
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hsa-miR-221*	ACCUGGCAUACAAUGUAGAUUU	210
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hsa-miR-223	UGUCAGUUUGUCAAAUACCCCA	213
hsa-miR-223*	CGUGUAUUUGACAAGCUGAGUU	214
hsa-miR-224	CAAGUCACUAGUGGUUCCGUU	215
hsa-miR-23a	AUCACAUUGCCAGGGAUUUC	216
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hsa-miR-23b	AUCACAUUGCCAGGGAUUACC	218
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hsa-miR-24-2*	UGCCUACUGAGCUGAAACACAG	222
hsa-miR-25	CAUUGCACUUGUCUCGGUCUGA	223
hsa-miR-25*	AGGCGGAGACUUGGGCAAUUG	224
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hsa-miR-296-5p	AGGGCCCCCCCUCAAUCCUGU	237
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hsa-miR-29b-2*	CUGGUUUCACAUGGUGGCUUAG	246
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hsa-miR-29c*	UGACCGAUUUCUCCUGGUGUUC	248
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hsa-miR-302a	UAAGUGCUUCCAUGUUUUGGUGA	252
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hsa-miR-302b	UAAGUGCUUCCAUGUUUUGUAG	254

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hsa-miR-302c	UAAGUGCUUCCAUGUUUCAGUGG	256
hsa-miR-302c*	UUUAACAUGGGGUACCUGCUG	257
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hsa-miR-30c	UGUAAACAUCCUACACUCUCAGC	264
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hsa-miR-30c-2*	CUGGGAGAAGGCUGUUUACUCU	266
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hsa-miR-320	AAAAGCUGGGUUGAGAGGGCGA	275
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hsa-miR-324-5p	CGCAUCCCCUAGGGCAUUGGUGU	279
hsa-miR-325	CCUAGUAGGUGUCCAGUAAGUGU	280
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hsa-miR-335*	UUUUUCAUUAUUGCUCCUGACC	289
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hsa-miR-339-5p	UCCUGUCCUCCAGGAGCUCACG	295
hsa-miR-33a	GUGCAUUGUAGUUGCAUUGCA	296
hsa-miR-33a*	CAAUGUUUCCACAGUGCAUCAC	297

hsa-miR-33b	GUGCAUUGCUGUUGCAUUGC	298
hsa-miR-33b*	CAGUGCCUCGGCAGUGCAGCCC	299
hsa-miR-340	UUAUAAAGCAAUGAGACUGAUU	300
hsa-miR-340*	UCCGUCUCAGUUACUUUAUAGC	301
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hsa-miR-345	GCUGACUCCUAGUCCAGGGCUC	304
hsa-miR-346	UGUCUGCCCGCAUGCCUGCCUCU	305
hsa-miR-34a	UGGCAGUGUCUUAGCUGGUUGU	306
hsa-miR-34a*	CAAUCAGCAAGUAUACUGCCCU	307
hsa-miR-34b	CAAUCACUAACUCCACUGCCAU	308
hsa-miR-34b*	UAGGCAGUGUCAUUAGCUGAUUG	309
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hsa-miR-362-5p	AAUCCUUGGAACCUAGGUGUGAGU	315
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hsa-miR-365	UAAUGCCCCUAAAAUCCUUAU	318
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hsa-miR-371-5p	ACUCAAACUGUGGGGGGCACU	325
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hsa-miR-374b	AUAUAAUACAACCUGCUAAGUG	331
hsa-miR-374b*	CUUAGCAGGUUGUAUUAUCAUU	332
hsa-miR-375	UUUGUUCGUUCGGCUCGCGUGA	333
hsa-miR-376a	AUCAUAGAGGAAAAUCCACGU	334
hsa-miR-376a*	GUAGAUUCUCCUUCUAUGAGUA	335
hsa-miR-376b	AUCAUAGAGGAAAAUCCAUGUU	336
hsa-miR-376c	AACAUAGAGGAAAUUCCACGU	337
hsa-miR-377	AUCACACAAAGGCAACUUUUGU	338
hsa-miR-377*	AGAGGUUGCCCUUGGUGAAUUC	339
hsa-miR-378	ACUGGACUUGGAGUCAGAAGG	340



hsa-miR-378*	CUCCUGACUCCAGGUCCUGUGU	341
hsa-miR-379	UGGUAGACUAUGGAACGUAGG	342
hsa-miR-379*	UAUGUAACAUGGUCCACUAACU	343
hsa-miR-380	UAUGUAAUAUGGUCCACAUCUU	344
hsa-miR-380*	UGGUUGACCAUAGAACAUGCGC	345
hsa-miR-381	UAUACAAGGGCAAGCUCUCUGU	346
hsa-miR-382	GAAGUUGUUCGUGGUGGAUUCG	347
hsa-miR-383	AGAUCAGAAGGUGAUUGUGGCU	348
hsa-miR-384	AUUCCUAGAAAUUGUUCAUA	349
hsa-miR-409-3p	GAAUGUUGCUCGGUGAACCCCU	350
hsa-miR-409-5p	AGGUUACCCGAGCAACUUUGCAU	351
hsa-miR-410	AAUAUAACACAGAUGGCCUGU	352
hsa-miR-411	UAGUAGACCGUAUAGCGUACG	353
hsa-miR-411*	UAUGUAACACGGUCCACUAACC	354
hsa-miR-412	ACUUCACCUGGUCCACUAGCCGU	355
hsa-miR-421	AUCAACAGACAUUAAUUGGGCGC	356
hsa-miR-422a	ACUGGACUUAGGGUCAGAAGGC	357
hsa-miR-423-3p	AGCUCGGUCUGAGGCCCCUCAGU	358
hsa-miR-423-5p	UGAGGGGCAGAGAGCGAGACUUU	359
hsa-miR-424	CAGCAGCAAUUCAUGUUUUGAA	360
hsa-miR-424*	CAAAACGUGAGGCGCUGCUAU	361
hsa-miR-425	AAUGACACGAUCACUCCCGUUGA	362
hsa-miR-425*	AUCGGGAUGUCGUGUCCGCCC	363
hsa-miR-429	UAAUACUGUCUGGUAAAACCGU	364
hsa-miR-431	UGUCUUGCAGGCCGUGAUGCA	365
hsa-miR-431*	CAGGUCGUCUUGCAGGGCUUCU	366
hsa-miR-432	UCUUGGAGUAGGUCAUUGGGUGG	367
hsa-miR-432*	CUGGAUGGCUCCUCCAUGUCU	368
hsa-miR-433	AUCAUGAUGGGCUCCUCGGUGU	369
hsa-miR-448	UUGCAUAUGUAGGAUGUCCCAU	370
hsa-miR-449a	UGGCAGUGUAUUGUUAGCUGGU	371
hsa-miR-449b	AGGCAGUGUAUUGUUAGCUGGC	372
hsa-miR-450a	UUUUGCGAUGUGUUCCUAAUAU	373
hsa-miR-450b-3p	UUGGGAUCAUUUUGCAUCCAUA	374
hsa-miR-450b-5p	UUUUGCAAUAUGUUCCUGAAUA	375
hsa-miR-451	AAACCGUUACCAUACUGAGUU	376
hsa-miR-452	AACUGUUUUGCAGAGGAAACUGA	377
hsa-miR-452*	CUCAUCUGCAAAGAAGUAAGUG	378
hsa-miR-453	AGGUUGUCCGUGGUGAGUUCGCA	379
hsa-miR-454	UAGUGCAAUAUUGCUUAUAGGGU	380
hsa-miR-454*	ACCCUAUCAUAUUGUCUCUGC	381
hsa-miR-455-3p	GCAGUCCAUGGGCAUAUACAC	382
hsa-miR-455-5p	UAUGUGCCUUUGGACUACAUCG	383

hsa-miR-483-3p	UCACUCCUCUCCUCCCGUCUU	384
hsa-miR-483-5p	AAGACGGGAGGAAAGAAGGGAG	385
hsa-miR-484	UCAGGCUCAGUCCCCUCCGAU	386
hsa-miR-485-3p	GUCAUACACGGCUCUCCUCUCU	387
hsa-miR-485-5p	AGAGGCUGGCCGUGAUGAAUUC	388
hsa-miR-486-3p	CGGGGCAGCUCAGUACAGGAU	389
hsa-miR-486-5p	UCCUGUACUGAGCUGCCCCGAG	390
hsa-miR-487a	AAUCAUACAGGGACAUCAGUU	391
hsa-miR-487b	AAUCGUACAGGGUCAUCCACUU	392
hsa-miR-488	UUGAAAGGCUAUUUCUUGGUC	393
hsa-miR-488*	CCCAGAUAAUGGCACUCUCAA	394
hsa-miR-489	GUGACAUCACAUAUACGGCAGC	395
hsa-miR-490-3p	CAACCUGGAGGACUCCAUGCUG	396
hsa-miR-490-5p	CCAUGGAUCUCCAGGUGGGU	397
hsa-miR-491-3p	CUUAUGCAAGAUUCCCUUCUAC	398
hsa-miR-491-5p	AGUGGGGAACCCUCCAUGAGG	399
hsa-miR-492	AGGACCUGCGGGACAAGAUUCUU	400
hsa-miR-493	UGAAGGUCUACUGUGUGCCAGG	401
hsa-miR-493*	UUGUACAUGGUAGGCUUUCAUU	402
hsa-miR-494	UGAAACAUACACGGGAACCCUC	403
hsa-miR-495	AAACAAACAUGGUGCACUUCUU	404
hsa-miR-496	UGAGUAUUACAUGGCCAAUCUC	405
hsa-miR-497	CAGCAGCACACUGUGGUUUUGU	406
hsa-miR-497*	CAAACCACACUGUGGUGUUAGA	407
hsa-miR-498	UUUCAAGCCAGGGGGCGUUUUUC	408
hsa-miR-499-3p	AACAUCACAGCAAGUCUGUGCU	409
hsa-miR-499-5p	UUAAGACUUGCAGUGAUGUUU	410
hsa-miR-500	UAAUCCUUGCACUACCUGGGUGAGA	411
hsa-miR-500*	AUGCACCUGGGCAAGGAUUCUG	412
hsa-miR-501-3p	AAUGCACCCGGGCAAGGAUUCU	413
hsa-miR-501-5p	AAUCCUUUGUCCUGGGUGAGA	414
hsa-miR-502-3p	AAUGCACCUGGGCAAGGAUUCA	415
hsa-miR-502-5p	AUCCUUGCUAUCUGGGUGCUA	416
hsa-miR-503	UAGCAGCGGGAACAGUUCUGCAG	417
hsa-miR-504	AGACCCUGGUCUGCACUCUAUC	418
hsa-miR-505	CGUCAACACUUGCUGGUUCCU	419
hsa-miR-505*	GGGAGCCAGGAAGUAUUGAUGU	420
hsa-miR-506	UAAGGCACCCUUCUGAGUAGA	421
hsa-miR-507	UUUUGCACCUUUUGGAGUGAA	422
hsa-miR-508-3p	UGAUUGUAGCCUUUUGGAGUAGA	423
hsa-miR-508-5p	UACUCCAGAGGGCGUCACUCAUG	424
hsa-miR-509-3-5p	UACUGCAGACGUGGCAAUCAUG	425
hsa-miR-509-3p	UGAUUGGUACGUCUGUGGGUAG	426

hsa-miR-509-5p	UACUGCAGACAGUGGCAAUCA	427
hsa-miR-510	UACUCAGGAGAGUGGCAAUCAC	428
hsa-miR-511	GUGUCUUUUGCUCUGCAGUCA	429
hsa-miR-512-3p	AAGUGCUGUCAUAGCUGAGGUC	430
hsa-miR-512-5p	CACUCAGCCUUGAGGGCACUUUC	431
hsa-miR-513-3p	UAAAUUUCACCUUUCUGAGAAGG	432
hsa-miR-513-5p	UUCACAGGGAGGUGUCAU	433
hsa-miR-514	AUUGACACUUCUGUGAGUAGA	434
hsa-miR-515-3p	GAGUGCCUUCUUUUGGAGCGUU	435
hsa-miR-515-5p	UUCUCCAAAAGAAAGCACUUUCUG	436
hsa-miR-516a-3p	UGCUUCCUUUCAGAGGGU	437
hsa-miR-516a-5p	UUCUCGAGGAAAGAAGCACUUUC	438
hsa-miR-516b	AUCUGGAGGUAAGAAGCACUUU	439
hsa-miR-516b*	UGCUUCCUUUCAGAGGGU	440
hsa-miR-517*	CCUCUAGAUGGAAGCACUGUCU	441
hsa-miR-517a	AUCGUGCAUCCCUUUAGAGUGU	442
hsa-miR-517b	UCGUGCAUCCCUUUAGAGUGUU	443
hsa-miR-517c	AUCGUGCAUCCUUUUAGAGUGU	444
hsa-miR-518a-3p	GAAAGCGCUUCCCUUUGCUGGA	445
hsa-miR-518a-5p	CUGCAAAGGGAAGCCCUUUC	446
hsa-miR-518b	CAAAGCGCUCCCCUUUAGAGGU	447
hsa-miR-518c	CAAAGCGCUUCUCUUUAGAGUGU	448
hsa-miR-518c*	UCUCUGGAGGGAAGCACUUUCUG	449
hsa-miR-518d-3p	CAAAGCGCUUCCCUUUGGAGC	450
hsa-miR-518d-5p	CUCUAGAGGGAAGCACUUUCUG	451
hsa-miR-518e	AAAGCGCUUCCCUUCAGAGUG	452
hsa-miR-518e*	CUCUAGAGGGAAGCGCUUUCUG	453
hsa-miR-518f	GAAAGCGCUUCUCUUUAGAGG	454
hsa-miR-518f*	CUCUAGAGGGAAGCACUUUCUC	455
hsa-miR-519a	AAAGUGCAUCCUUUUAGAGUGU	456
hsa-miR-519a*	CUCUAGAGGGAAGCGCUUUCUG	457
hsa-miR-519b-3p	AAAGUGCAUCCUUUUAGAGGUU	458
hsa-miR-519b-5p	CUCUAGAGGGAAGCGCUUUCUG	459
hsa-miR-519c-3p	AAAGUGCAUCUUUUUAGAGGAU	460
hsa-miR-519c-5p	CUCUAGAGGGAAGCGCUUUCUG	461
hsa-miR-519d	CAAAGUGCCUCCCUUUAGAGUG	462
hsa-miR-519e	AAGUGCCUCCUUUUUAGAGUGUU	463
hsa-miR-519e*	UUCUCCAAAAGGGAGCACUUUC	464
hsa-miR-520a-3p	AAAGUGCUUCCCUUUGGACUGU	465
hsa-miR-520a-5p	CUCCAGAGGGAAGUACUUUCU	466
hsa-miR-520b	AAAGUGCUUCCUUUUUAGAGGG	467
hsa-miR-520c-3p	AAAGUGCUUCCUUUUUAGAGGGU	468
hsa-miR-520c-5p	CUCUAGAGGGAAGCACUUUCUG	469

hsa-miR-520d-3p	AAAGUGCUUCUCUUUGGUGGGU	470
hsa-miR-520d-5p	CUACAAAGGGAAGCCCUUUC	471
hsa-miR-520e	AAAGUGCUUCCUUUUUGAGGG	472
hsa-miR-520f	AAGUGCUUCCUUUUAGAGGGUU	473
hsa-miR-520g	ACAAAGUGCUUCCCUUUAGAGUGU	474
hsa-miR-520h	ACAAAGUGCUUCCCUUUAGAGU	475
hsa-miR-521	AACGCACUUCCCUUUAGAGUGU	476
hsa-miR-522	AAAUGGUUCCCUUUAGAGUGU	477
hsa-miR-522*	CUCUAGAGGGAAGCGCUUUCUG	478
hsa-miR-523	GAACGCGCUUCCCUAUAGAGGGU	479
hsa-miR-523*	CUCUAGAGGGAAGCGCUUUCUG	480
hsa-miR-524-3p	GAAGGCGCUUCCCUUUGGAGU	481
hsa-miR-524-5p	CUACAAAGGGAAGCACUUUCUC	482
hsa-miR-525-3p	GAAGGCGCUUCCCUUUAGAGCG	483
hsa-miR-525-5p	CUCCAGAGGGAUGCACUUUCU	484
hsa-miR-526a	CUCUAGAGGGAAGCACUUUCUG	485
hsa-miR-526b	CUCUUGAGGGAAGCACUUUCUGU	486
hsa-miR-526b*	GAAAGUGCUUCCUUUUAGAGGC	487
hsa-miR-527	CUGCAAAGGGAAGCCCUUUC	488
hsa-miR-532-3p	CCUCCCACACCCAAGGCUUGCA	489
hsa-miR-532-5p	CAUGCCUUGAGUGUAGGACCGU	490
hsa-miR-539	GGAGAAAUUAUCCUUGGUGUGU	491
hsa-miR-541	UGGUGGGCACAGAAUCUGGACU	492
hsa-miR-541*	AAAGGAUUCUGCUGUCGGUCCACU	493
hsa-miR-542-3p	UGUGACAGAUUGAUAAACUGAAA	494
hsa-miR-542-5p	UCGGGGAUCAUCAUGUCACGAGA	495
hsa-miR-543	AAACAUUCGCGGUGCACUUCUU	496
hsa-miR-544	AUUCUGCAUUUUUAGCAAGUUC	497
hsa-miR-545	UCAGCAAACAUUUUUAUGUGUGC	498
hsa-miR-545*	UCAGUAAAUGUUUAUAGAUGA	499
hsa-miR-548a-3p	CAAACUGGCAAUUACUUUUGC	500
hsa-miR-548a-5p	AAAAGUAAUUGCGAGUUUUACC	501
hsa-miR-548b-3p	CAAGAACCUCAGUUGCUUUUGU	502
hsa-miR-548b-5p	AAAAGUAAUUGUGGUUUUGGCC	503
hsa-miR-548c-3p	CAAAAUCUCAAUUACUUUUGC	504
hsa-miR-548c-5p	AAAAGUAAUUGCGGUUUUUGCC	505
hsa-miR-548d-3p	CAAAAACCACAGUUUCUUUUGC	506
hsa-miR-548d-5p	AAAAGUAAUUGUGGUUUUUGCC	507
hsa-miR-549	UGACAACUAUGGAUGAGCUCU	508
hsa-miR-550	AGUGCCUGAGGGAGUAAGAGCCC	509
hsa-miR-550*	UGUCUUAUCUCCCUAGGCACAU	510
hsa-miR-551a	GCGACCCACUCUUGGUUUCCA	511
hsa-miR-551b	GCGACCCAUAUCUUGGUUUCAG	512

hsa-miR-551b*	GAAAUCAAGCGUGGGUGAGACC	513
hsa-miR-552	AACAGGUGACUGGUUAGACAA	514
hsa-miR-553	AAAACGGUGAGAUUUUGUUUU	515
hsa-miR-554	GCUAGUCCUGACUCAGCCAGU	516
hsa-miR-555	AGGGUAAGCUGAACCUCUGAU	517
hsa-miR-556-3p	AUAUUACCAUUAGCUCAUCUUU	518
hsa-miR-556-5p	GAUGAGCUCAUUGUAAUAUGAG	519
hsa-miR-557	GUUUGCACGGGUGGGCCUUGUCU	520
hsa-miR-558	UGAGCUGCUGUACCAAAAU	521
hsa-miR-559	UAAAGUAAAUAUGCACCAAAA	522
hsa-miR-560	GCGUGCGCCGGCCGGCCGCC	523
hsa-miR-561	CAAAGUUUAAGAUCUUGAAGU	524
hsa-miR-562	AAAGUAGCUGUACCAUUUUGC	525
hsa-miR-563	AGGUUGACAUACGUUUCCC	526
hsa-miR-564	AGGCACGGUGUCAGCAGGC	527
hsa-miR-565	GGCUGGCUCGCGAUGUCUGUUU	528
hsa-miR-566	GGGCGCCUGUGAUCCCAAC	529
hsa-miR-567	AGUAUGUUCUCCAGGACAGAAC	530
hsa-miR-568	AUGUAUAAAUGUAUACACAC	531
hsa-miR-569	AGUUAUUGAAUCCUGGAAAGU	532
hsa-miR-570	CGAAAACAGCAAUUACCUUUGC	533
hsa-miR-571	UGAGUUGGCCAUCUGAGUGAG	534
hsa-miR-572	GUCCGCUCGGCGGUGGCCCA	535
hsa-miR-573	CUGAAGUGAUGUGUAACUGAUCAG	536
hsa-miR-574-3p	CACGCUCAUGCACACACCCACA	537
hsa-miR-574-5p	UGAGUGUGUGUGUGUGAGUGUGU	538
hsa-miR-575	GAGCCAGUUGGACAGGAGC	539
hsa-miR-576-3p	AAGAUGUGGAAAAAUUGGAAUC	540
hsa-miR-576-5p	AUUCUAAUUUCUCCACGUCUUU	541
hsa-miR-577	UAGAUAAAUAUUGGUACCUG	542
hsa-miR-578	CUUCUUGUGCUCUAGGAUUGU	543
hsa-miR-579	UUCAUUUGGUUAUAACCGCGAUU	544
hsa-miR-580	UUGAGAAUGAUGAAUCAUUAGG	545
hsa-miR-581	UCUUGUGUUCUCUAGAUCAGU	546
hsa-miR-582-3p	UACUGGUUGAACAACUGAACC	547
hsa-miR-582-5p	UUACAGUUGUUCAACCAGUUACU	548
hsa-miR-583	CAAAGAGGAAGGUCCCAUUAC	549
hsa-miR-584	UUAUGGUUUGCCUGGGACUGAG	550
hsa-miR-585	UGGGCGUAUCUGUAUAGCUA	551
hsa-miR-586	UAUGCAUUGUAUUUUUAGGUCC	552
hsa-miR-587	UUUCCAUAAGGUGAUGAGUCAC	553
hsa-miR-588	UUGGCCACAUGGGUUAGAAC	554
hsa-miR-589	UGAGAACCACGUCUGCUCUGAG	555

hsa-miR-589*	UCAGAACAAAUGCCGGUUCCCAGA	556
hsa-miR-590-3p	UAAUUUUUAUGUAUAAGCUAGU	557
hsa-miR-590-5p	GAGCUUAUUCAUAAAAGUGCAG	558
hsa-miR-591	AGACCAUGGGUUCUCAUUGU	559
hsa-miR-592	UUGUGUCAUAUGCGAUGAUGU	560
hsa-miR-593	UGUCUCUGCUGGGGUUUCU	561
hsa-miR-593*	AGGCACCAGCCAGGCAUUGCUCAGC	562
hsa-miR-595	GAAGUGUGCCGUGGUGUGUCU	563
hsa-miR-596	AAGCCUGCCCGGCUCUCGGG	564
hsa-miR-597	UGUGUCACUCGAUGACCACUGU	565
hsa-miR-598	UACGUCAUCGUUGUCAUCGUCA	566
hsa-miR-599	GUUGUGUCAGUUUAUCAAAC	567
hsa-miR-600	ACUUACAGACAAGAGCCUUGCUC	568
hsa-miR-601	UGGUCUAGGAUUGUUGGAGGAG	569
hsa-miR-602	GACACGGGCGACAGCUGCGGCCC	570
hsa-miR-603	CACACACUGCAAUUACUUUUGC	571
hsa-miR-604	AGGCUGCGGAAUUCAGGAC	572
hsa-miR-605	UAAAUCCCAUGGUGCCUUCUCCU	573
hsa-miR-606	AAACUACUGAAAAUCAAGAU	574
hsa-miR-607	GUUCAAUCCAGAUCUAUAAC	575
hsa-miR-608	AGGGGUGGUGUUGGGACAGCUCCGU	576
hsa-miR-609	AGGGUGUUUCUCUCAUCUCU	577
hsa-miR-610	UGAGCUAAAUGUGUGCUGGGA	578
hsa-miR-611	GCGAGGACCCUCGGGGUCUGAC	579
hsa-miR-612	GCUGGGCAGGGCUUCUGAGCUCCUU	580
hsa-miR-613	AGGAAUGUCCUUCUUUGCC	581
hsa-miR-614	GAACGCCUGUUCUUGCCAGGUGG	582
hsa-miR-615-3p	UCCGAGCCUGGGUCUCCCUCUU	583
hsa-miR-615-5p	GGGGGUCCCCGGUGCUCGGAUC	584
hsa-miR-616	AGUCAUUGGAGGGUUUGAGCAG	585
hsa-miR-616*	ACUCAAAACCCUUCAGUGACUU	586
hsa-miR-617	AGACUUCCCAUUUGAAGGUGGC	587
hsa-miR-618	AAACUCUACUUGUCCUUCUGAGU	588
hsa-miR-619	GACCUGGACAUGUUUGUGCCCAGU	589
hsa-miR-620	AUGGAGAUAGAUUAAGAAAU	590
hsa-miR-621	GGCUAGCAACAGCGCUUACCU	591
hsa-miR-622	ACAGUCUGCUGAGGUUGGAGC	592
hsa-miR-623	AUCCCUUGCAGGGGCUGUUGGGU	593
hsa-miR-624	CACAAGGUAAUUGGUAAUACCU	594
hsa-miR-624*	UAGUACCAGUACCUUGUGUUCA	595
hsa-miR-625	AGGGGGAAAGUUCUAUAGUCC	596
hsa-miR-625*	GACUAUAGAACUUUCCCCCUCA	597
hsa-miR-626	AGCUGUCUGAAAAUGUCUU	598

hsa-miR-627	GUGAGUCUCUAAGAAAAGAGGA	599
hsa-miR-628-3p	UCUAGUAAGAGUGGCAGUCGA	600
hsa-miR-628-5p	AUGCUGACAUUUUACUAGAGG	601
hsa-miR-629	UGGGUUUACGUUGGGAGAACU	602
hsa-miR-629*	GUUCUCCCAACGUAAGCCCAGC	603
hsa-miR-630	AGUAUUCUGUACCAGGGAAGGU	604
hsa-miR-631	AGACCUGGCCAGACCUCAGC	605
hsa-miR-632	GUGUCUGCUUCCUGUGGGA	606
hsa-miR-633	CUAAUAGUAUCUACCACAAUAAA	607
hsa-miR-634	AACCAGCACCCCAACUUUGGAC	608
hsa-miR-635	ACUUGGGCACUGAAACAAUGUCC	609
hsa-miR-636	UGUGCUUGCUCGUCCCCGCCGCA	610
hsa-miR-637	ACUGGGGGCUUUCGGGCUCUGCGU	611
hsa-miR-638	AGGGAUCGCGGGCGGGUGGCGGCCU	612
hsa-miR-639	AUCGCUGCGGUUGCGAGCGCUGU	613
hsa-miR-640	AUGAUCCAGGAACCUGCCUCU	614
hsa-miR-641	AAAGACAUAGGAUAGAGUCACCUC	615
hsa-miR-642	GUCCCUCUCCAAUGUGUCUUG	616
hsa-miR-643	ACUUGUAUGCUAGCUCAGGUAG	617
hsa-miR-644	AGUGUGGCUUUCUUAGAGC	618
hsa-miR-645	UCUAGGCUGGUACUGCUGA	619
hsa-miR-646	AAGCAGCUGCCUCUGAGGC	620
hsa-miR-647	GUGGCUGCACUCACUCCUUC	621
hsa-miR-648	AAGUGUGCAGGGCACUGGU	622
hsa-miR-649	AAACCUGUGUUGUUAAGAGUC	623
hsa-miR-650	AGGAGGCAGCGCUCUCAGGAC	624
hsa-miR-651	UUUAGGAUAAGCUUGACUUUUG	625
hsa-miR-652	AAUGGCGCCACUAGGGUUGUG	626
hsa-miR-653	GUGUUGAAACAAUCUCUACUG	627
hsa-miR-654-3p	UAUGUCUGCUGACCAUCACCUU	628
hsa-miR-654-5p	UGGUGGGCCGCAGAACAUGUGC	629
hsa-miR-655	AUAAUACAUGGUUAACCUCUUU	630
hsa-miR-656	AAUAUUUAACAGUCAACCUCU	631
hsa-miR-657	GGCAGGUUCUCACCCUCUCUAGG	632
hsa-miR-658	GGCGGAGGGAAGUAGGUCCGUUGGU	633
hsa-miR-659	CUUGGUUCAGGGAGGGUCCCCA	634
hsa-miR-660	UACCAUUGCAUAUCGGAGUUG	635
hsa-miR-661	UGCCUGGGUCUCUGGCCUGCGCGU	636
hsa-miR-662	UCCCACGUUGUGGCCAGCAG	637
hsa-miR-663	AGGCGGGGCGCCGCGGGACCGC	638
hsa-miR-665	ACCAGGAGGCUGAGGCCCCU	639
hsa-miR-668	UGUCACUCGGCUCGGCCACUAC	640
hsa-miR-671-3p	UCCGGUUCUCAGGGCUCCACC	641

hsa-miR-671-5p	AGGAAGCCCUGGAGGGGCUGGAG	642
hsa-miR-672	UGAGGUUGGUGUACUGUGUGUGA	643
hsa-miR-674	GCACUGAGAUGGGAGUGGUGUA	644
hsa-miR-675	UGGUGCGGAGAGGGCCCACAGUG	645
hsa-miR-7	UGGAAGACUAGUGAUUUUGUUGU	646
hsa-miR-708	AAGGAGCUUACAAUCUAGCUGGG	647
hsa-miR-708*	CAACUAGACUGUGAGCUUCUAG	648
hsa-miR-7-1*	CAACAAAUCACAGUCUGCCAUA	649
hsa-miR-7-2*	CAACAAAUCCCAGUCUACCUAA	650
hsa-miR-744	UGCGGGGCUAGGGCUAACAGCA	651
hsa-miR-744*	CUGUUGCCACUAACCUCAACCU	652
hsa-miR-758	UUUGUGACCUGGUCCACUAACC	653
hsa-miR-760	CGGCUCUGGGUCUGUGGGGA	654
hsa-miR-765	UGGAGGAGAAGGAAGGUGAUG	655
hsa-miR-766	ACUCCAGCCCCACAGCCUCAGC	656
hsa-miR-767-3p	UCUGCUCAUACCCCAUGGUUUCU	657
hsa-miR-767-5p	UGCACCAUGGUUGUCUGAGCAUG	658
hsa-miR-768-3p	UCACAAUGCUGACACUCAAACUGCUGAC	659
hsa-miR-768-5p	GUUGGAGGAUGAAAGUACGGAGUGAU	660
hsa-miR-769-3p	CUGGGAUCUCCGGGGUCUUGGUU	661
hsa-miR-769-5p	UGAGACCUCUGGGUUCUGAGCU	662
hsa-miR-770-5p	UCCAGUACCACGUGUCAGGGCCA	663
hsa-miR-801	GAUUGCUCUGCGUGCGGAAUCGAC	664
hsa-miR-802	CAGUAACAAAGAUUCAUCCUUGU	665
hsa-miR-871	UAUUCAGAUUAGUGCCAGUCAUG	666
hsa-miR-872	AAGGUUACUUGUUAGUUCAGG	667
hsa-miR-873	GCAGGAACUUGUGAGUCUCCU	668
hsa-miR-874	CUGCCCUGGCCCGAGGGACCGA	669
hsa-miR-875-3p	CCUGGAAACACUGAGGUUGUG	670
hsa-miR-875-5p	UAUACCUCAGUUUUUAUCAGGUG	671
hsa-miR-876-3p	UGGUGGUUUACAAAGUAAUUCA	672
hsa-miR-876-5p	UGGAUUUCUUUGUGAAUCACCA	673
hsa-miR-877	GUAGAGGAGAUGGCGCAGGG	674
hsa-miR-877*	UCCUCUUCUCCCUCUCCAGG	675
hsa-miR-885-3p	AGGCAGCGGGGUGUAGUGGAUA	676
hsa-miR-885-5p	UCCAUUACACUACCCUGCCUCU	677
hsa-miR-886-3p	CGCGGGUGCUUACUGACCCUU	678
hsa-miR-886-5p	CGGGUCGGAGUUAGCUCAAGCGG	679
hsa-miR-887	GUGAACGGGCGCCAUCCCGAGG	680
hsa-miR-888	UACUCAAAAAGCUGUCAGUCA	681
hsa-miR-888*	GACUGACACCUCUUUGGGUGAA	682
hsa-miR-889	UUAUAUUCGGACAACCAUUGU	683
hsa-miR-890	UACUUGGAAAGGCAUCAGUUG	684



hsa-miR-891a	UGCAACGAACCUGAGCCACUGA	685
hsa-miR-891b	UGCAACUUACCUGAGUCAUUGA	686
hsa-miR-892a	CACUGUGUCCUUUCUGCGUAG	687
hsa-miR-892b	CACUGGCUCCUUUCUGGGUAGA	688
hsa-miR-9	UCUUUGGUUAUCUAGCUGUAUGA	689
hsa-miR-9*	AUAAAGCUAGAUAAACCGAAAGU	690
hsa-miR-920	GGGGAGCUGUGGAAGCAGUA	691
hsa-miR-921	CUAGUGAGGGACAGAACCAGGAUUC	692
hsa-miR-922	GCAGCAGAGAAUAGGACUACGUC	693
hsa-miR-923	GUCAGCGGAGGAAAAGAAACU	694
hsa-miR-924	AGAGUCUUGUGAUGUCUUGC	695
hsa-miR-92a	UAUUGCACUUGUCCCGGCCUGU	696
hsa-miR-92a-1*	AGGUUGGGAUUCGUUGCAAUGCU	697
hsa-miR-92a-2*	GGGUGGGGAUUUGUUGCAUUAC	698
hsa-miR-92b	UAUUGCACUCGUCCCGGCCUCC	699
hsa-miR-92b*	AGGGACGGGACGCGGUGCAGUG	700
hsa-miR-93	CAAAGUGCUGUUCGUGCAGGUAG	701
hsa-miR-93*	ACUGCUGAGCUAGCACUUCCCG	702
hsa-miR-933	UGUGCGCAGGGAGACCUCUCCC	703
hsa-miR-934	UGUCUACUACUGGAGACACUGG	704
hsa-miR-935	CCAGUUACCGCUUCCGCUACCGC	705
hsa-miR-936	ACAGUAGAGGGAGGAAUCGCAG	706
hsa-miR-937	AUCCGCGCUCUGACUCUCUGCC	707
hsa-miR-938	UGCCCUUAAAGGUGAACCCAGU	708
hsa-miR-939	UGGGGAGCUGAGGCUCUGGGGGUG	709
hsa-miR-940	AAGGCAGGGCCCCCGCUCCCC	710
hsa-miR-941	CACCCGGCUGUGUGCACAUGUGC	711
hsa-miR-942	UCUUCUCUGUUUUGGCCAUGUG	712
hsa-miR-943	CUGACUGUUGCCGUCCUCCAG	713
hsa-miR-944	AAAUUAUUGUACAUCGGAUGAG	714
hsa-miR-95	UUCAACGGGUAUUUUAUUGAGCA	715
hsa-miR-96	UUUGGCACUAGCACAUUUUUGCU	716
hsa-miR-96*	AAUCAUGUGCAGUGCCAAUAUG	717
hsa-miR-98	UGAGGUAGUAAGUUGUAUUGUU	718
hsa-miR-99a	AACCCGUAGAUCCGAUCUUGUG	719
hsa-miR-99a*	CAAGCUCGCUUCUAUGGGUCUG	720
hsa-miR-99b	CACCCGUAGAACCGACCUUGCG	721
hsa-miR-99b*	CAAGCUCGUGUCUGUGGGUCCG	722
hsv-1 miR-LAT	UGGCGGCCCGGCCCGGGGCC	723