



hsa-miR-92a-3p

[illegible]

cuuucuaacacagguugggaucgguugcaaugcuguguuucuguaagguauugcacuugucccgccgcuugaguuugg

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| .....uauugcacuugAcccggc.....   | 1     | 1 | seq |
| .....uauugcacuuguccUgc.....    | 1     | 1 | seq |
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| .....uauugcacuugucAcggcc.....  | 4     | 1 | seq |
| .....uGuugcacuugucccggcc.....  | 1     | 1 | seq |
| .....uauugcacuugucccggcG.....  | 2     | 1 | seq |
| .....uauugcacuuguccUggcc.....  | 9     | 1 | seq |
| .....uauugcacuugucccggcc.....  | 15606 | 0 | seq |
| .....uauugcacCugucccggcc.....  | 8     | 1 | seq |
| .....uauAgcacuugucccggcc.....  | 6     | 1 | seq |
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| .....uauugcacuuAucccggcc.....  | 13    | 1 | seq |
| .....uauugcacuugucccAgcc.....  | 3     | 1 | seq |
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| .....uauugcacuuguccGggcc.....  | 6     | 1 | seq |
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| .....uauugcacuugucccggcUu..... | 3     | 1 | seq |
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| .....uauugcacuugucccggccG..... | 59    | 1 | seq |
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| .....uauCgcacuugucccggccu..... | 2     | 1 | seq |
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| .....uauugcacuuCucccggccu..... | 3     | 1 | seq |

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| .....uauugcacAugucccgccu.....   | 2    | 1 | seq |
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| .....uauugcacuugccAggccu.....   | 1    | 1 | seq |
| .....uCuugcacuugucccgccu.....   | 4    | 1 | seq |
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| .....uauugcacuugCcccgccu.....   | 1    | 1 | seq |
| .....uaAugcacuugucccgccu.....   | 3    | 1 | seq |
| .....uauugGacuugucccgccu.....   | 2    | 1 | seq |
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| .....Aauugcacuugucccgccu.....   | 4    | 1 | seq |
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| .....uauugcacuugucccgccA.....   | 14   | 1 | seq |
| .....uauugcacuugucccgAccu.....  | 3    | 1 | seq |
| .....uauugcacuugcGcgccu.....    | 1    | 1 | seq |
| .....Gauugcacuugucccgccu.....   | 1    | 1 | seq |
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| .....uauugcacuugucccgGcug.....  | 8    | 1 | seq |
| .....uauugcacuugucccgCccug..... | 37   | 1 | seq |
| .....uauCgcacuuguccggccug.....  | 52   | 1 | seq |
| .....uauugcacuugucccgccuU.....  | 113  | 1 | seq |
| .....uauugcacuuCuccggccug.....  | 41   | 1 | seq |
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| .....uCuugcacuuguccggccug.....  | 121  | 1 | seq |
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| .....uauugcacuuguccGggccug..... | 36   | 1 | seq |
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| .....uGuugcacuuguccggccug.....  | 19   | 1 | seq |
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| .....uauugcacuugucccgccCg.....  | 84   | 1 | seq |
| .....uauugcacuuguccUggccug..... | 156  | 1 | seq |
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| .....uauugcacuugucccgccuA.....  | 230  | 1 | seq |
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| .....uauugcacuuguccggccGg.....  | 1793 | 1 | seq |
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| .....uauugcacuugCcccgccug.....    | 31     | 1 | seq |
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| .....uauugcacuugucAcggccug.....   | 35     | 1 | seq |
| .....uauugcacuuguGccggccug.....   | 16     | 1 | seq |
| .....uauugcacuugucccUgccug.....   | 49     | 1 | seq |
| .....uauugcacuugucccgccUug.....   | 45     | 1 | seq |
| .....uauugcacuugGcccgccug.....    | 5      | 1 | seq |
| .....uauugcacuugucccgcccuC.....   | 23     | 1 | seq |
| .....uauugcacCugucccgccug.....    | 38     | 1 | seq |
| .....AAuugcacuugucccgccug.....    | 44     | 1 | seq |
| .....uaGugcacuugucccgccug.....    | 1      | 1 | seq |
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| .....uauugcacuuguUccggccugu.....  | 60     | 1 | seq |
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| .....uauugcacuugucccCgccugu.....  | 26     | 1 | seq |
| .....uauugcacuugucccgccugu.....   | 150575 | 0 | seq |
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| .....uauugcacuuguccUgccugu.....   | 70     | 1 | seq |
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| .....Cauugcacuugucccgccugu.....   | 82     | 1 | seq |
| .....uauugcacAugucccgccugu.....   | 42     | 1 | seq |
| .....uCuugcacuugucccgccugu.....   | 187    | 1 | seq |
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| .....Gauugcacuugucccgccugu.....   | 10     | 1 | seq |
| .....uauugcacuugucccgccugC.....   | 206    | 1 | seq |
| .....uauugcacuugucccgCccugu.....  | 30     | 1 | seq |
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| .....uauugcaAUugucccgccugu.....   | 7      | 1 | seq |
| .....uauAgcacuugucccgccugu.....   | 45     | 1 | seq |
| .....uauugcacuuUuccggccugu.....   | 11     | 1 | seq |
| .....AAuugcacuugucccgccugu.....   | 59     | 1 | seq |
| .....uauugcacuAgucccgccugu.....   | 33     | 1 | seq |
| .....uauugcacuugucAcggccugu.....  | 48     | 1 | seq |
| .....uauuAcacuugucccgccugu.....   | 57     | 1 | seq |
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| .....uaAugcacuugucccgccugu.....   | 84     | 1 | seq |
| .....uauugcacuugucccgccugA.....   | 43357  | 1 | seq |

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| .....uauugcacuugucccgcccuAu..... | 84    | 1 | seq |
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| .....uauugcacuugucccgUcu.....    | 26    | 1 | seq |
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| .....uauugcacuugucccgUccu.....   | 12    | 1 | seq |
| .....uauugcacuugucccgAcu.....    | 3     | 1 | seq |
| .....uauugAacuugucccgcccu.....   | 38    | 1 | seq |
| .....uauugcacuugcGcgcccu.....    | 47    | 1 | seq |
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| .....uauugUacuugucccgcccu.....   | 161   | 1 | seq |
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| .....uauugcacuugucccgccUu.....   | 84    | 1 | seq |
| .....uauugcacuugCcccgcccu.....   | 46    | 1 | seq |
| .....uauugcacuugCcccgcccu.....   | 11    | 1 | seq |
| .....uauuAacuugucccgcccu.....    | 11    | 1 | seq |
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| .....uauugcacuugcUcgcccu.....    | 19    | 1 | seq |
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| .....uauugcacuugucccgcccuAu..... | 8     | 1 | seq |
| .....uauugcacuugccAggcccu.....   | 8     | 1 | seq |
| .....uauugcacUguucccgcccu.....   | 2     | 1 | seq |
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| .....uauugcacuugucccgccCu.....   | 2     | 1 | seq |
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| .....uauugcaGuugucccgcccu.....   | 1     | 1 | seq |
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| .....uauugcUcuugucccgcccu.....   | 10    | 1 | seq |
| .....uauugcCcuugucccgcccu.....   | 5     | 1 | seq |
| .....uauugcacuugucccgcccuC.....  | 144   | 1 | seq |
| .....uauugcacuugucccgcccuCu..... | 15    | 1 | seq |
| .....uCuugcacuugucccgcccu.....   | 23    | 1 | seq |
| .....uauugcacuugcAcggcccu.....   | 13    | 1 | seq |
| .....uauCgcacuugucccgcccu.....   | 10    | 1 | seq |
| .....uauAgcacuugucccgcccu.....   | 9     | 1 | seq |
| .....uauugcaUuugucccgcccu.....   | 11    | 1 | seq |
| .....uauugcacGugucccgcccu.....   | 1     | 1 | seq |
| .....uauuUcacuugucccgcccu.....   | 2     | 1 | seq |
| .....Gauugcacuugucccgcccu.....   | 3     | 1 | seq |
| .....uauugcacuuCucccgcccu.....   | 4     | 1 | seq |
| .....uauugcacuCGucccgcccu.....   | 12    | 1 | seq |
| .....uauugcacuugucccgAccu.....   | 10    | 1 | seq |
| .....uauugcacuugucccgcaAugu..... | 3     | 1 | seq |
| .....uauugcacuugucccgccUu.....   | 21    | 1 | seq |
| .....uauugcacuuguccCgcccu.....   | 5     | 1 | seq |
| .....uauugcacuuAucccgcccu.....   | 24    | 1 | seq |
| .....uauugcacuugcGcgcccu.....    | 7     | 1 | seq |
| .....uauugcacuugAaccggcccu.....  | 1     | 1 | seq |

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| .....uUuugcacuugucccgccuguu.....     | 12   | 1 | seq |
| .....uauugcacuugucccgGcUuguu.....    | 7    | 1 | seq |
| .....uauugcacuGguucccgccuguu.....    | 2    | 1 | seq |
| .....uauugcacuuguccGggccuguu.....    | 8    | 1 | seq |
| .....uauugGacuugucccgccuguu.....     | 4    | 1 | seq |
| .....uauugcacuuguUccggccuguu.....    | 14   | 1 | seq |
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| .....uauugcacuugucccgccuguuAg.....   | 994  | 1 | seq |
| .....uauugcacuugucccgccuguuU.....    | 547  | 1 | seq |
| .....uauugcacuugucccgccuguCg.....    | 1    | 1 | seq |
| .....uauugcacuugucccgccuguuA.....    | 164  | 1 | seq |
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| .....uauugcacuugucccgccuguuUg.....   | 4    | 1 | seq |
| .....uauugcacuugucccgccuguuAga.....  | 256  | 1 | seq |
| .....uauugcacuugucccgccuguuAa.....   | 40   | 1 | seq |
| .....uauugcacuugucccgccuguuaga.....  | 10   | 0 | seq |
| .....uauugcacuugucccgccuguuAga.....  | 1    | 1 | seq |
| .....uauugcacuugucccgccuguuagaA..... | 1    | 1 | seq |
| .....uauugcacuugucccgccuguuAag.....  | 2    | 1 | seq |
| .....auugcacUgucccgcc.....           | 1    | 1 | seq |
| .....auugcacuuguccUggcc.....         | 2    | 1 | seq |
| .....auugcCcuugucccgcc.....          | 1    | 1 | seq |
| .....auugcacuugucccgcc.....          | 253  | 0 | seq |
| .....Cuugcacuugucccgcc.....          | 14   | 1 | seq |
| .....auugcacuugucccgccG.....         | 1    | 1 | seq |
| .....Cuugcacuugucccgccu.....         | 3    | 1 | seq |
| .....auugcacuugucccgccC.....         | 1    | 1 | seq |
| .....auugcacuugucccgccu.....         | 112  | 0 | seq |
| .....auugcacuuUucccgccug.....        | 1    | 1 | seq |
| .....auugcacUgucccgccug.....         | 2    | 1 | seq |
| .....auuAacuugucccgccug.....         | 2    | 1 | seq |
| .....auugcacuugucccgccG.....         | 5    | 1 | seq |
| .....auugcacuugucccgUcug.....        | 1    | 1 | seq |
| .....auugcacuAgucccgccug.....        | 1    | 1 | seq |
| .....auugcacuugucccgccuA.....        | 5    | 1 | seq |
| .....auugUacuugucccgccug.....        | 3    | 1 | seq |
| .....auugcacuCgucccgccug.....        | 2    | 1 | seq |
| .....auugcacAugucccgccug.....        | 3    | 1 | seq |
| .....aCugcacuugucccgccug.....        | 4    | 1 | seq |
| .....auugcaAuugucccgccug.....        | 1    | 1 | seq |
| .....auugcacuuguccGcgccug.....       | 1    | 1 | seq |
| .....Uuugcacuugucccgccug.....        | 3    | 1 | seq |
| .....Cuugcacuugucccgccug.....        | 237  | 1 | seq |
| .....auugcacuugucccgGcUug.....       | 3    | 1 | seq |
| .....aAugcacuugucccgccug.....        | 2    | 1 | seq |
| .....auugcacuugucccgGc.....          | 80   | 1 | seq |
| .....auugcacuuguccAgccug.....        | 3    | 1 | seq |
| .....auugcacuugucccgccuU.....        | 1    | 1 | seq |
| .....auugcacuugucccgAaccug.....      | 2    | 1 | seq |
| .....auugcacuuAucccgccug.....        | 2    | 1 | seq |
| .....auugcacuugucccgUccug.....       | 1    | 1 | seq |
| .....auugcacuuguccUcgccug.....       | 4    | 1 | seq |
| .....auugcacuuguccUggccug.....       | 10   | 1 | seq |
| .....auugcacuugucccgccug.....        | 5408 | 0 | seq |
| .....auCgcacuugucccgccug.....        | 10   | 1 | seq |
| .....Guugcacuugucccgccug.....        | 2    | 1 | seq |
| .....auugcacuugucccgccAg.....        | 1    | 1 | seq |
| .....auugcacuugCcccgccug.....        | 4    | 1 | seq |
| .....auugcCcuugucccgccug.....        | 6    | 1 | seq |
| .....auugcacuuguccUgccug.....        | 4    | 1 | seq |
| .....auugcacuugAcccgccug.....        | 4    | 1 | seq |
| .....auugcacuugucccgCccug.....       | 2    | 1 | seq |
| .....auugcaUuugucccgccug.....        | 3    | 1 | seq |

cuuucuaacacagguugggaucgguugcaaugcuguguuucuguaugguauugcacuugucccgccgcuugaguuugg

|                                     |      |   |     |
|-------------------------------------|------|---|-----|
| .auugcacuuguccGggccug . . . . .     | 2    | 1 | seq |
| .auugcacuugucccgccuC . . . . .      | 1    | 1 | seq |
| .auugcacuuguUccggccug . . . . .     | 5    | 1 | seq |
| .auuCcacuugucccgccug . . . . .      | 2    | 1 | seq |
| .auugcacuugucccgccGug . . . . .     | 1    | 1 | seq |
| .auugcacuugGccggccug . . . . .      | 1    | 1 | seq |
| .auugcacuugucccgAccug . . . . .     | 1    | 1 | seq |
| .auugcacAugucccgccug . . . . .      | 1    | 1 | seq |
| .auugGacuugucccgccug . . . . .      | 1    | 1 | seq |
| .auugcacuuguccAgccug . . . . .      | 1    | 1 | seq |
| .auuAcacuugucccgccug . . . . .      | 1    | 1 | seq |
| .auugcacuugucccgccAgu . . . . .     | 1    | 1 | seq |
| .auugcaUuuguccggccug . . . . .      | 1    | 1 | seq |
| .auugcacuuguUccggccug . . . . .     | 2    | 1 | seq |
| .auugcacuuguccggccugA . . . . .     | 606  | 1 | seq |
| .auugcacuugCccggccug . . . . .      | 1    | 1 | seq |
| .Uuugcacuugucccgccug . . . . .      | 3    | 1 | seq |
| .auugcacuugcAcggccug . . . . .      | 1    | 1 | seq |
| .auugcacuuguccggccugC . . . . .     | 7    | 1 | seq |
| .auugcacuuCuccggccug . . . . .      | 1    | 1 | seq |
| .aCugcacuuguccggccug . . . . .      | 2    | 1 | seq |
| .auugcacuugAccggccug . . . . .      | 2    | 1 | seq |
| .auugcacCuguccggccug . . . . .      | 1    | 1 | seq |
| .auugcacuuguccggccuAu . . . . .     | 1    | 1 | seq |
| .auugcacuCuuccggccug . . . . .      | 2    | 1 | seq |
| .auugcacuuguGccggccug . . . . .     | 1    | 1 | seq |
| .auugcCcuuguccggccug . . . . .      | 4    | 1 | seq |
| .auCgcacuuguccggccug . . . . .      | 5    | 1 | seq |
| .auugcacuugucccgUccug . . . . .     | 1    | 1 | seq |
| .Cuugcacuuguccggccug . . . . .      | 176  | 1 | seq |
| .auugcacuAuguccggccug . . . . .     | 1    | 1 | seq |
| .auugcacuugcUccggccug . . . . .     | 2    | 1 | seq |
| .auugcacuuguccggccCgu . . . . .     | 2    | 1 | seq |
| .auugcacuugGccggccug . . . . .      | 2    | 1 | seq |
| .auugcGcuugucccgccug . . . . .      | 1    | 1 | seq |
| .auugcacuuguccggccugG . . . . .     | 28   | 1 | seq |
| .auugcUcuuguccggccug . . . . .      | 2    | 1 | seq |
| .auugcacuuguccggccug . . . . .      | 3527 | 0 | seq |
| .auugcacuuguccggcUugu . . . . .     | 2    | 1 | seq |
| .auugcacuuguccAggccug . . . . .     | 1    | 1 | seq |
| .auugcacuugucccgCccug . . . . .     | 1    | 1 | seq |
| .auCgcacuuguccggccuguu . . . . .    | 3    | 1 | seq |
| .auugcacuuguccggccCguu . . . . .    | 1    | 1 | seq |
| .auugcacuugCccggccuguu . . . . .    | 1    | 1 | seq |
| .auugcacuugucccgUccuguu . . . . .   | 1    | 1 | seq |
| .auugcacCuguccggccuguu . . . . .    | 1    | 1 | seq |
| .aAugcacuuguccggccuguu . . . . .    | 1    | 1 | seq |
| .Cuugcacuuguccggccuguu . . . . .    | 51   | 1 | seq |
| .Uuugcacuuguccggccuguu . . . . .    | 1    | 1 | seq |
| .auugcacuuguccggccuguu . . . . .    | 1074 | 0 | seq |
| .auuUcacuuguccggccuguu . . . . .    | 2    | 1 | seq |
| .auugcacuuguccggccuguC . . . . .    | 7    | 1 | seq |
| .auugcacuuguccUggccuguu . . . . .   | 2    | 1 | seq |
| .auugcacuuguccggccugAu . . . . .    | 11   | 1 | seq |
| .auugcacuugAccggccuguu . . . . .    | 1    | 1 | seq |
| .auugcacGuguccggccuguu . . . . .    | 1    | 1 | seq |
| .auugcacuugucccgCccuguu . . . . .   | 1    | 1 | seq |
| .auugcCcuuguccggccuguu . . . . .    | 2    | 1 | seq |
| .auugUacuuguccggccuguu . . . . .    | 1    | 1 | seq |
| .auugcacuuguccUgccuguu . . . . .    | 2    | 1 | seq |
| .auugcacuugcUcgccuguu . . . . .     | 1    | 1 | seq |
| .aCugcacuuguccggccuguu . . . . .    | 1    | 1 | seq |
| .auugcacuuguccggccugA . . . . .     | 717  | 1 | seq |
| .auugcacuuguccggccuguuug . . . . .  | 4    | 0 | seq |
| .auugcacuuguccggccuguuU . . . . .   | 25   | 1 | seq |
| .auugcacuuguccggccuguuAg . . . . .  | 20   | 1 | seq |
| .auugcacuuguccggccuguuA . . . . .   | 5    | 1 | seq |
| .auugcacuuguccggccuguuAa . . . . .  | 3    | 1 | seq |
| .auugcacuuguccggccuguuaga . . . . . | 1    | 0 | seq |

hsa-miR-92a-1-5p

hsa-miR-92a-3p

cuuucuaacacagguugggaucggguugcaaugcuguguuucuguaugguaauugcacuugucccgcccgguugaguuugg

|                                    |    |   |     |
|------------------------------------|----|---|-----|
| .....auugcacuugucccgcccgguAga..... | 11 | 1 | seq |
| .....uugcCcuugucccgcccg.....       | 1  | 1 | seq |
| .....uugcacuugucccgcccg.....       | 15 | 0 | seq |
| .....uugcacuugucccgcccgG.....      | 1  | 1 | seq |
| .....uugcacuugucccgcccggu.....     | 26 | 0 | seq |
| .....uugcacuugucccgcccgA.....      | 6  | 1 | seq |
| .....uugcCcuugucccgcccggu.....     | 2  | 1 | seq |
| .....uugcacuugucccgcccgAu.....     | 2  | 1 | seq |
| .....uugcCcuugucccgcccgguu.....    | 3  | 1 | seq |
| .....uugcacuugucccgcccgguu.....    | 30 | 0 | seq |
| .....uugcacuugucccgcccgguA.....    | 22 | 1 | seq |
| .....uugcacuugucccgcccgguU.....    | 3  | 1 | seq |
| .....uugcacuugucccgcccgguuA.....   | 4  | 1 | seq |
| .....uugcacuugucccgcccgguAg.....   | 2  | 1 | seq |
| .....uugcacuugucccgcccgguuga.....  | 1  | 0 | seq |
| .....uugcacuugucccgcccgguAga.....  | 1  | 1 | seq |
| .....ugcacuugucccgcccg.....        | 8  | 0 | seq |
| .....ugcacuugucccgcccggu.....      | 4  | 0 | seq |
| .....ugcacuugucccgcccgguu.....     | 1  | 0 | seq |
| .....gcacuugucccgAccgu.....        | 1  | 1 | seq |
| .....gcacuugucccgcccggu.....       | 17 | 0 | seq |
| .....gcacuugucccgcccgA.....        | 1  | 1 | seq |
| .....gcacuugucccgAccgu.....        | 2  | 1 | seq |
| .....gcacuugucccgcccgG.....        | 1  | 1 | seq |
| .....gcacuugucccgcccgA.....        | 1  | 1 | seq |
| .....gcacuugucccgcccgguu.....      | 1  | 0 | seq |
| .....cacuugucccgcccgguu.....       | 3  | 0 | seq |