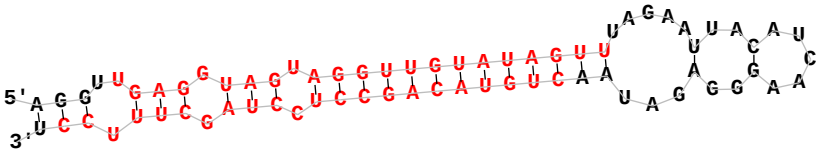
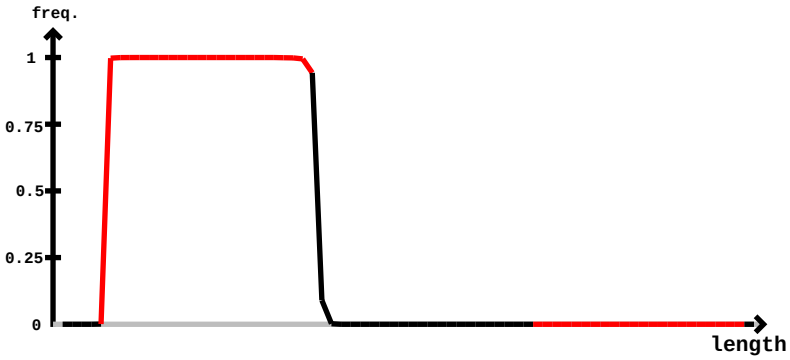
| | |
|---|---|
| miRBase precursor | : hsa-let-7a-2 |
| Total read count | : 1555156 |
| hsa-let-7a-5p read count | : 1555123 |
| hsa-let-7a-2-3p read count | : 13 |
| remaining reads | : 33 |






hsa-let-7a-5p

hsa-let-7a-2-3p

```
5'- aggugagguaguagguuguauaguuagaauuacaucaagggagauaacuguacagccuccuagcuuuccu   -3'    exp
    (((..(((.(((.(((((((((((((.....(..(.....)..)...)))))))))))))).))).))).)))    reads      mm         sample
    agUuugagguaguagguuguau.....................................................    1          1          hsa
    .Aguugagguaguagguuguau.....................................................    5          1          hsa
    .gUuugagguaguagguuguaua....................................................    4          1          hsa
    ..gGugagguaguagguuguau.....................................................    1          1          hsa
    ..guugagguaguagguuguaua....................................................    7          0          hsa
    ..guugagguaguagAuuguaua....................................................    11         1          hsa
    ..Uuugagguaguagguuguauag...................................................    9          1          hsa
    ..guugagguaguagguuguauGgu..................................................    3          1          hsa
    ..gGugagguaguagguuguauaguu.................................................    1          1          hsa
    ..guugagguaguagguuguauGguu.................................................    7          1          hsa
    ...Gugagguaguagguuguau.....................................................    5          1          hsa
    ...Cugagguaguagguuguauag...................................................    1          1          hsa
    ...Augagguaguagguuguauag...................................................    1          1          hsa
    ...uugagguaguagguuguauGg...................................................    1          1          hsa
    ...uugagguaguagguuguauaU...................................................    1          1          hsa
    ...Gugagguaguagguuguauag...................................................    22         1          hsa
    ...uugagguaguagguuguauag...................................................    11         0          hsa
    ...uugagguagGagguuguauag...................................................    3          1          hsa
    ...uugagguaguagAuuguauag...................................................    14         1          hsa
    ...uugagguagAagguuguauag...................................................    1          1          hsa
    ...uugagguaguagguuguauaUu..................................................    2          1          hsa
    ...uugagguaguagAuuguauagu..................................................    35         1          hsa
    ...uugagguagGagguuguauagu..................................................    4          1          hsa
    ...Cugagguaguagguuguauagu..................................................    18         1          hsa
    ...uugagguaguagguuguauCgu..................................................    1          1          hsa
    ...Augagguaguagguuguauagu..................................................    3          1          hsa
    ...uugagguCguagguuguauagu..................................................    1          1          hsa
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    ...uugagguaguaggAuguauaguu.................................................    1          1          hsa
```

hsa-let-7a-5p

hsa-let-7a-2-3p

aggu**ugagguaguagguuguauaguu**uagaauuacaucaagggagauaa**cuguacagccuccuagcuuucc**u

| | | | |
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| ...Gugagguaguagguuguauaguu | 166 | 1 | hsa |
| ...uugagguaguagguuguauUguu | 1 | 1 | hsa |
| ...Cugagguaguagguuguauaguu | 444 | 1 | hsa |
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| ...uugagguaguagguuguauaguA | 1 | 1 | hsa |
| ...Augagguaguagguuguauaguu | 11 | 1 | hsa |
| ...uugCgguaguagguuguauaguu | 1 | 1 | hsa |
| ...uugagguaguagguuguauGguuu | 2 | 1 | hsa |
| ...uugagguaguagguuguauaguuA | 11 | 1 | hsa |
| ...Cugagguaguagguuguauaguuu | 15 | 1 | hsa |
| ...uugaggAaguagguuguauaguuu | 1 | 1 | hsa |
| ...uugagguaguagguuguauaguuu | 5 | 0 | hsa |
| ...Gugagguaguagguuguauaguuu | 7 | 1 | hsa |
| ...Cugagguaguagguuguauaguuua | 4 | 1 | hsa |
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| ....ugagguaCuagguuguau | 1 | 1 | hsa |
| ....ugagguagGagguuguau | 104 | 1 | hsa |
| ....ugagguaguagguuguau | 505 | 0 | hsa |
| ....ugagguaguagguuguGu | 206 | 1 | hsa |
| ....ugagguaguagguCguau | 1 | 1 | hsa |
| ....uUagguaguagguuguau | 1 | 1 | hsa |
| ....ugagguaguagguGguau | 1 | 1 | hsa |
| ....ugagCuaguagguuguau | 1 | 1 | hsa |
| ....ugagguaguagguuguaA | 16 | 1 | hsa |
| ....ugagguaguUgguuguau | 2 | 1 | hsa |
| ....ugagguaguCgguuguau | 3 | 1 | hsa |
| ....ugCgguaguagguuguau | 2 | 1 | hsa |
| ....ugagguUguagguuguau | 1 | 1 | hsa |
| ....ugagguGguagguuguau | 1 | 1 | hsa |
| ....ugagguaUuagguuguau | 1 | 1 | hsa |
| ....ugagguaguagAuuguau | 414 | 1 | hsa |
| ....ugagguaguagguuguaG | 3 | 1 | hsa |
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| ....ugagguaguagguuUuau | 2 | 1 | hsa |
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| ....uCagguaguagguuguaua | 1 | 1 | hsa |
| ....ugagguaguagguugCaua | 3 | 1 | hsa |
| ....ugagguaguagguuguauU | 15 | 1 | hsa |
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| ....ugaCguaguagguuguaua | 1 | 1 | hsa |
| ....ugagguaguagguCguaua | 1 | 1 | hsa |
| ....ugagguaguagguuguaAa | 4 | 1 | hsa |
| ....ugagguaguagguuguauG | 3 | 1 | hsa |
| ....ugagguaguaggCuguaua | 1 | 1 | hsa |
| ....ugCgguaguagguuguaua | 1 | 1 | hsa |
| ....ugagguaguaAguuguaua | 1 | 1 | hsa |
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| ....Cgagguaguagguuguaua | 1 | 1 | hsa |
| ....ugagguaguagguuguaua | 421 | 0 | hsa |
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| ....ugagguaUuagguuguaua | 1 | 1 | hsa |
| ....ugagguaguUgguuguaua | 1 | 1 | hsa |
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| ....ugagguGguagguuguaua | 1 | 1 | hsa |

hsa-let-7a-5p

hsa-let-7a-2-3p

aggugagguagguuguauaguuuagaauuacaucaagggagauaacuguacagccuccuagcuuuccu

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| ....ugGgguaguaggguuguaua..... | 1 | 1 | hsa |
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| ....ugaUguaguaggguuguauag..... | 7 | 1 | hsa |
| ....ugagguCguaggguuguauag..... | 9 | 1 | hsa |
| ....Cgagguaguaggguuguauag..... | 3 | 1 | hsa |
| ....ugagguaguagguugCauag..... | 3 | 1 | hsa |
| ....ugagguaguagguuguauCg..... | 7 | 1 | hsa |
| ....ugagUuaguaggguuguauag..... | 2 | 1 | hsa |
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| ....ugaCguaguaggguuguauag..... | 2 | 1 | hsa |
| ....ugagguaguCgguuguauag..... | 23 | 1 | hsa |
| ....ugagguaguaggguuguUuag..... | 4 | 1 | hsa |
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| ....ugaggAaguaggguuguauag..... | 3 | 1 | hsa |
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| ....uAagguaguaggguuguauag..... | 3 | 1 | hsa |
| ....ugagguaguaggguugAauag..... | 3 | 1 | hsa |
| ....ugaggGaguaggguuguauag..... | 3 | 1 | hsa |
| ....ugagguagCaggguuguauag..... | 3 | 1 | hsa |
| ....ugagguaguagUuuguauag..... | 14 | 1 | hsa |
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| ....ugUgguaguaggguuguauag..... | 1 | 1 | hsa |
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| ....ugagguaguaggguuguGuagu..... | 58 | 1 | hsa |
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hsa-let-7a-5p

hsa-let-7a-2-3p

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| ....ugaUguaguagguuguauagu | 79 | 1 | hsa |
| ....ugagguaguagguuguauUgu | 31 | 1 | hsa |
| ....ugagguaguagguuguauaUu | 289 | 1 | hsa |
| ....ugagguaguagguAguauagu | 10 | 1 | hsa |
| ....ugagguaguCgguuguauagu | 259 | 1 | hsa |
| ....ugagAuaguagguuguauagu | 26 | 1 | hsa |
| ....ugaCguaguagguuguauagu | 33 | 1 | hsa |
| ....ugagguaguagguuUuauagu | 195 | 1 | hsa |
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| ....ugagguaguagguuguCuagu | 44 | 1 | hsa |
| ....Ggagguaguagguuguauagu | 7 | 1 | hsa |
| ....Agagguaguagguuguauagu | 20 | 1 | hsa |
| ....ugagguCguagguuguauagu | 94 | 1 | hsa |
| ....ugagCuaguagguuguauagu | 18 | 1 | hsa |
| ....ugagguaguagguCguauagu | 27 | 1 | hsa |
| ....ugGgguaguagguuguauagu | 42 | 1 | hsa |
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| ....ugagguaguaggCuguauagu | 41 | 1 | hsa |
| ....ugagguaguagguuguUuagu | 35 | 1 | hsa |
| ....ugagguaCuagguuguauagu | 19 | 1 | hsa |
| ....ugagguaguagguuguauaCu | 17 | 1 | hsa |
| ....ugUgguaguagguuguauagu | 25 | 1 | hsa |
| ....ugagguUguagguuguauagu | 12 | 1 | hsa |
| ....ugagguaguagguuguaAagu | 10 | 1 | hsa |
| ....ugaggCaguagguuguauagu | 86 | 1 | hsa |
| ....ugagguagCagguuguauagu | 52 | 1 | hsa |
| ....uAagguaguagguuguauagu | 79 | 1 | hsa |
| ....uUagguaguagguuguauagu | 59 | 1 | hsa |
| ....ugCgguaguagguuguauagu | 157 | 1 | hsa |
| ....ugagguaguaAguuguauagu | 8 | 1 | hsa |
| ....uCagguaguagguuguauagu | 13 | 1 | hsa |
| ....ugagguaAuagguuguauagu | 18 | 1 | hsa |
| ....ugagguaguagguuguauaAu | 13 | 1 | hsa |
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| ....ugagguaguagCuuguauagu | 51 | 1 | hsa |
| ....ugagguaguGgguuguauagu | 58 | 1 | hsa |
| ....ugagguGguagguuguauagu | 30 | 1 | hsa |
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| ....ugagguaUuagguuguauagu | 101 | 1 | hsa |
| ....ugagguaguaggAuguauagu | 14 | 1 | hsa |
| ....ugaggAaguagguuguauagu | 70 | 1 | hsa |
| ....ugagguaguagguuguauagG | 21 | 1 | hsa |
| ....ugagguaguagguuguauagA | 23 | 1 | hsa |
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| ....ugaUguaguagguuguauaguu | 1047 | 1 | hsa |
| ....ugagguaguaUguuguauaguu | 1417 | 1 | hsa |
| ....ugagguaguCgguuguauaguu | 3836 | 1 | hsa |
| ....ugaAguaguagguuguauaguu | 283 | 1 | hsa |
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| ....ugagUuaguagguuguauaguu | 564 | 1 | hsa |
| ....ugagguaCuagguuguauaguu | 229 | 1 | hsa |
| ....ugagguaguagguuguauUguu | 496 | 1 | hsa |
| ....ugagguaguagCuuguauaguu | 1104 | 1 | hsa |
| ....ugagguaguaCguuguauaguu | 157 | 1 | hsa |
| ....ugagguaguagUuuguauaguu | 5158 | 1 | hsa |
| ....ugagguaguagAuuguauaguu | 562473 | 1 | hsa |
| ....ugagguaguagguAguauaguu | 223 | 1 | hsa |
| ....ugagguaguagguuguCuaguu | 760 | 1 | hsa |
| ....ugagguaUuagguuguauaguu | 1222 | 1 | hsa |
| ....ugagguaguaggAuguauaguu | 253 | 1 | hsa |

hsa-let-7a-5p

hsa-let-7a-2-3p

aggu**ugagguaguagguuguauaguu**uagaauuacaucaagggagauaa**cuguacagccuccuagcuuucc**u

| | | | |
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| ....ugagguaguagguuguauCguu | 2121 | 1 | hsa |
| ....ugagguaguagguuguauaguA | 1651 | 1 | hsa |
| ....ugagguGguagguuguauaguu | 615 | 1 | hsa |
| ....ugagguaAuagguuguauaguu | 195 | 1 | hsa |
| ....ugagAuaguagguuguauaguu | 273 | 1 | hsa |
| ....ugagguaguagguuguaCaguu | 670 | 1 | hsa |
| ....ugaggAaguagguuguauaguu | 904 | 1 | hsa |
| ....ugagguaguagguuguUuaguu | 504 | 1 | hsa |
| ....ugagguaguaAguuguauaguu | 149 | 1 | hsa |
| ....ugaggGaguagguuguauaguu | 555 | 1 | hsa |
| ....Ggagguaguagguuguauaguu | 91 | 1 | hsa |
| ....ugagguaguagguuguauaguu | 619528 | 0 | hsa |
| ....ugagguaguagguugCauaguu | 957 | 1 | hsa |
| ....ugagguUguagguuguauaguu | 253 | 1 | hsa |
| ....ugagguCguagguuguauaguu | 1471 | 1 | hsa |
| ....ugUgguaguagguuguauaguu | 314 | 1 | hsa |
| ....ugagguaguagguuguauagAu | 231 | 1 | hsa |
| ....ugagguaguagguuguauaguC | 1187 | 1 | hsa |
| ....ugagguaguaggGuguauaguu | 125 | 1 | hsa |
| ....ugagguaguagguuAuauaguu | 352 | 1 | hsa |
| ....ugagguaguagguuguauagGu | 281 | 1 | hsa |
| ....ugagguaguUgguuguauaguu | 842 | 1 | hsa |
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| ....uUagguaguagguuguauaguu | 840 | 1 | hsa |
| ....ugagguaguagguugGauaguu | 253 | 1 | hsa |
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| ....ugagguaguagguuguGuaguu | 1014 | 1 | hsa |
| ....ugagguaguGgguuguauaguu | 997 | 1 | hsa |
| ....ugagCuaguagguuguauaguu | 184 | 1 | hsa |
| ....ugagguaguagguuguauaCuu | 317 | 1 | hsa |
| ....Cgagguaguagguuguauaguu | 548 | 1 | hsa |
| ....ugagguaguagguuCuauaguu | 327 | 1 | hsa |
| ....ugagguaguagguCguauaguu | 577 | 1 | hsa |
| ....ugagguaguagguuguauaguG | 323 | 1 | hsa |
| ....uAagguaguagguuguauaguu | 1272 | 1 | hsa |
| ....ugagguaguagguuguauaAuu | 140 | 1 | hsa |
| ....ugagguaguaggCuguauaguu | 535 | 1 | hsa |
| ....ugagguaguagguugAauaguu | 384 | 1 | hsa |
| ....ugagguaguagguuguauaUuu | 4089 | 1 | hsa |
| ....uCagguaguagguuguauaguu | 263 | 1 | hsa |
| ....ugagguaguagguuguaGaguu | 144 | 1 | hsa |
| ....ugagguaguagguuguauagCu | 543 | 1 | hsa |
| ....ugagguagAagguuguauaguu | 484 | 1 | hsa |
| ....ugaggCaguagguuguauaguu | 1203 | 1 | hsa |
| ....ugagguaguagguGguauaguu | 157 | 1 | hsa |
| ....Ggagguaguagguuguauaguuu | 8 | 1 | hsa |
| ....ugagguaguagguuguaGaguuu | 8 | 1 | hsa |
| ....ugagguaguagguuguauaguuC | 603 | 1 | hsa |
| ....ugagguaguagguCguauaguuu | 44 | 1 | hsa |
| ....Cgagguaguagguuguauaguuu | 45 | 1 | hsa |
| ....ugagguGguagguuguauaguuu | 43 | 1 | hsa |
| ....uUagguaguagguuguauaguuu | 60 | 1 | hsa |
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| ....ugagguaguagguuguauagCuu | 41 | 1 | hsa |
| ....ugagguUguagguuguauaguuu | 13 | 1 | hsa |
| ....uAagguaguagguuguauaguuu | 82 | 1 | hsa |
| ....ugagguaguaggCuguauaguuu | 32 | 1 | hsa |
| ....ugagguaguagguuguauaguAu | 111 | 1 | hsa |
| ....ugagguaguGgguuguauaguuu | 81 | 1 | hsa |
| ....ugagguaguagguuguauaguuu | 39433 | 0 | hsa |
| ....ugagguaguagguuguauagGuu | 24 | 1 | hsa |
| ....ugaggGaguagguuguauaguuu | 35 | 1 | hsa |
| ....ugagguaguagguuguCuaguuu | 38 | 1 | hsa |
| ....ugagguaguagguuUuauaguuu | 149 | 1 | hsa |
| ....ugagguaguCgguuguauaguuu | 248 | 1 | hsa |
| ....ugagguaguagguuguauGguuu | 607 | 1 | hsa |

hsa-let-7a-5p

hsa-let-7a-2-3p

aggu**ugagguaguagguuguauaguu**uagaauuacaucaagggagauaa**cuguacagccuccuagcuuucc**u

| | | | |
|---|---|---|---|
| ....ugagguaguagguuguauaguCu | 58 | 1 | hsa |
| ....ugagguaguagguuguGuaguuu | 72 | 1 | hsa |
| ....ugagguaguaUguuguauaguuu | 78 | 1 | hsa |
| ....ugagguaguaggAuguauaguuu | 13 | 1 | hsa |
| ....ugagguCguagguuguauaguuu | 108 | 1 | hsa |
| ....ugagguaguagguuCuauaguuu | 18 | 1 | hsa |
| ....ugUgguaguagguuguauaguuu | 25 | 1 | hsa |
| ....ugagguaguagguuguauaguuG | 1868 | 1 | hsa |
| ....ugagAuaguagguuguauaguuu | 18 | 1 | hsa |
| ....ugagguaguagguuAuauaguuu | 25 | 1 | hsa |
| ....ugagguagGagguuguauaguuu | 13263 | 1 | hsa |
| ....ugagguagCagguuguauaguuu | 49 | 1 | hsa |
| ....ugagguaguaggGuguauaguuu | 8 | 1 | hsa |
| ....ugagguaguagguuguauaguuA | 64064 | 1 | hsa |
| ....ugaUguaguagguuguauaguuu | 74 | 1 | hsa |
| ....ugagguaguagguugCauaguuu | 55 | 1 | hsa |
| ....ugagguaguagguuguUuaguuu | 28 | 1 | hsa |
| ....ugagUuaguagguuguauaguuu | 46 | 1 | hsa |
| ....ugCgguaguagguuguauaguuu | 168 | 1 | hsa |
| ....ugagguaguagguuguaCaguuu | 19 | 1 | hsa |
| ....ugaggAaguagguuguauaguuu | 48 | 1 | hsa |
| ....ugagguaguagCuuguauaguuu | 42 | 1 | hsa |
| ....ugagguaCuagguuguauaguuu | 12 | 1 | hsa |
| ....ugagguaguagguuguauagAuu | 21 | 1 | hsa |
| ....ugagguaUuagguuguauaguuu | 95 | 1 | hsa |
| ....ugagguaguagguAguauaguuu | 13 | 1 | hsa |
| ....ugagguaAuagguuguauaguuu | 21 | 1 | hsa |
| ....ugagguaguagguuguaAaguuu | 4 | 1 | hsa |
| ....ugagguaguagguuguauaguGu | 16 | 1 | hsa |
| ....ugagguaguagguGguauaguuu | 5 | 1 | hsa |
| ....ugagCuaguagguuguauaguuu | 13 | 1 | hsa |
| ....ugagguaguUgguuguauaguuu | 51 | 1 | hsa |
| ....ugagguaguagguugAauaguuu | 17 | 1 | hsa |
| ....ugaggCaguagguuguauaguuu | 84 | 1 | hsa |
| ....ugagguaguaCguuguauaguuu | 10 | 1 | hsa |
| ....ugagguaguagguugGauaguuu | 12 | 1 | hsa |
| ....ugGgguaguagguuguauaguuu | 34 | 1 | hsa |
| ....Agagguaguagguuguauaguuu | 32 | 1 | hsa |
| ....ugaAguaguagguuguauaguuu | 13 | 1 | hsa |
| ....ugagguagAagguuguauaguuu | 48 | 1 | hsa |
| ....ugaCguaguagguuguauaguuu | 19 | 1 | hsa |
| ....ugagguaguagAuuguauaguuu | 12969 | 1 | hsa |
| ....uCagguaguagguuguauaguuu | 21 | 1 | hsa |
| ....ugagguaguagguuguauaAuuu | 9 | 1 | hsa |
| ....ugagguaguagguuguauCguuu | 98 | 1 | hsa |
| ....ugagguaguagguuguauaUuuu | 260 | 1 | hsa |
| ....ugagguaguagguuguauaCuuu | 13 | 1 | hsa |
| ....ugagguaguagguuguauUguuu | 24 | 1 | hsa |
| ....ugagguaguagUuuguauaguuu | 258 | 1 | hsa |
| ....uUagguaguagguuguauaguuua | 2 | 1 | hsa |
| ....ugagguaUuagguuguauaguuua | 1 | 1 | hsa |
| ....ugaUguaguagguuguauaguuua | 1 | 1 | hsa |
| ....ugagguaguagguugGuaguuua | 2 | 1 | hsa |
| ....ugagguaguGgguuguauaguuua | 1 | 1 | hsa |
| ....ugagguaguagguCguauaguuua | 2 | 1 | hsa |
| ....ugagguaguagguuguauaUuuua | 2 | 1 | hsa |
| ....ugagguagGagguuguauaguuua | 290 | 1 | hsa |
| ....ugagguaguagguuguauaguuGa | 55 | 1 | hsa |
| ....Agagguaguagguuguauaguuua | 1 | 1 | hsa |
| ....ugagguaguagguugCauaguuua | 1 | 1 | hsa |
| ....ugaggCaguagguuguauaguuua | 2 | 1 | hsa |
| ....ugaggAaguagguuguauaguuua | 2 | 1 | hsa |
| ....ugagguaguagguuguauaguuCa | 17 | 1 | hsa |
| ....ugagguaguagguuguauaguuua | 306 | 0 | hsa |
| ....ugagguaguaCguuguauaguuua | 1 | 1 | hsa |
| ....ugagguaguagguuguauGguuua | 9 | 1 | hsa |
| ....ugagguaguagguuUuauaguuua | 1 | 1 | hsa |
| ....ugagguaguagguuguauaguAua | 2 | 1 | hsa |
| ....ugagguaguagguuguauaguuuG | 16 | 1 | hsa |

hsa-let-7a-5p

hsa-let-7a-2-3p

aggu**ugagguaguagguuguauaguu**uagaauuacaucaagggagauaa**cuguacagccuccuagcuuucc**u

| | | | |
|---|---|---|---|
| ....ugagguaguCgguuguauaguuua | 1 | 1 | hsa |
| ....ugagguaguagguuguauaguCua | 1 | 1 | hsa |
| ....ugagguaguaUguuguauaguuua | 1 | 1 | hsa |
| ....ugagguaguagAuuguauaguuua | 68 | 1 | hsa |
| ....ugagguagCagguuguauaguuua | 1 | 1 | hsa |
| ....ugagguaguagguuguauaguuuU | 333 | 1 | hsa |
| ....ugagguaguagguuguauaguGua | 1 | 1 | hsa |
| ....ugagguaguagguuguauaCuuua | 1 | 1 | hsa |
| ....ugagguaguagguuAuauaguuua | 1 | 1 | hsa |
| ....ugagguaguagguuguauaguuAa | 1895 | 1 | hsa |
| ....ugagguaguagUuuguauaguuua | 2 | 1 | hsa |
| ....ugagguaguagguuguauaguuuC | 40 | 1 | hsa |
| ....ugagguaguagguuguauaguuuag | 1 | 0 | hsa |
| ....ugagguaguagguuguauaguuuCg | 2 | 1 | hsa |
| ....ugagguaguagguuguauaguuAag | 2 | 1 | hsa |
| ....ugagguaguagguuguauaguuuaC | 1 | 1 | hsa |
| ....ugagguaguagguuguauaguuuaU | 20 | 1 | hsa |
| ....ugagguagGagguuguauaguuuag | 2 | 1 | hsa |
| ....ugagguaguagguuguauaguuuGg | 4 | 1 | hsa |
| ....ugagguaguagguuguauaguuuaA | 15 | 1 | hsa |
| ....ugagguaguagguuguauaguuuaAa | 2 | 1 | hsa |
| ....ugagguaguagguuguauaguuuagU | 1 | 1 | hsa |
| ....ugagguaguagguuguauaguuuaga | 2 | 0 | hsa |
| ....ugagguaguagguuguauaguuAaga | 1 | 1 | hsa |
| ....ugagguaguagguuguauaguuuaCa | 1 | 1 | hsa |
| ....ugagguaguagguuguauaguuuCga | 1 | 1 | hsa |
| ....ugagguaguagguuguauaguuuagC | 1 | 1 | hsa |
| ....ugagguaguagguuguauaguuuUgaa | 1 | 1 | hsa |
| ....ugagguaguagguuguauaguuuaAaa | 1 | 1 | hsa |
| .....gagguaguagAuuguaua | 1 | 1 | hsa |
| .....gagguaguagAuuguauag | 9 | 1 | hsa |
| .....gagguagGagguuguauag | 1 | 1 | hsa |
| .....gagguaguagguuguauag | 9 | 0 | hsa |
| .....gagguaguagguugCauag | 3 | 1 | hsa |
| .....Uagguaguagguuguauag | 1 | 1 | hsa |
| .....gagguaUuagguuguauag | 1 | 1 | hsa |
| .....gagguaguagguuguCuagu | 1 | 1 | hsa |
| .....gagguaguagguugCauagu | 9 | 1 | hsa |
| .....gagguagGagguuguauagu | 11 | 1 | hsa |
| .....gagguaguagguuguauaUu | 1 | 1 | hsa |
| .....gagguaguagAuuguauagu | 81 | 1 | hsa |
| .....gagUuaguagguuguauagu | 1 | 1 | hsa |
| .....gagguaAuagguuguauagu | 1 | 1 | hsa |
| .....gagguaguagguuguauagu | 72 | 0 | hsa |
| .....gCgguaguagguuguauagu | 1 | 1 | hsa |
| .....gagguaguaUguuguauagu | 1 | 1 | hsa |
| .....Uagguaguagguuguauagu | 7 | 1 | hsa |
| .....gagguaguaUguuguauaguu | 2 | 1 | hsa |
| .....gagguagGagguuguauaguu | 103 | 1 | hsa |
| .....Uagguaguagguuguauaguu | 67 | 1 | hsa |
| .....gCgguaguagguuguauaguu | 3 | 1 | hsa |
| .....gagguaguagguuguauaguA | 1 | 1 | hsa |
| .....gagguaguagCuuguauaguu | 4 | 1 | hsa |
| .....gagguaUuagguuguauaguu | 4 | 1 | hsa |
| .....gUgguaguagguuguauaguu | 1 | 1 | hsa |
| .....gaggAaguagguuguauaguu | 5 | 1 | hsa |
| .....gagguaguagguugCauaguu | 223 | 1 | hsa |
| .....gagguaguagguuguCuaguu | 3 | 1 | hsa |
| .....gagguagCagguuguauaguu | 3 | 1 | hsa |
| .....gagguaCuagguuguauaguu | 2 | 1 | hsa |
| .....gagguaguagguugGauaguu | 1 | 1 | hsa |
| .....gagguaguagguuguauaUuu | 6 | 1 | hsa |
| .....gaCguaguagguuguauaguu | 1 | 1 | hsa |
| .....gagguaguagguuguauaguu | 729 | 0 | hsa |
| .....gagguaguagguuCuauaguu | 1 | 1 | hsa |
| .....gagguaguagguuguauaguG | 1 | 1 | hsa |
| .....gagguaguagguuguauGguu | 37 | 1 | hsa |
| .....gaggGaguagguuguauaguu | 5 | 1 | hsa |
| .....gGgguaguagguuguauaguu | 1 | 1 | hsa |

hsa-let-7a-5p

hsa-let-7a-2-3p

aggu**ugagguaguagguuguauaguu**uagaauuacaucaagggagauaa**cuguacagccuccuagcuuucc**u

| | | | |
|---|---|---|---|
| .....gagguaguagguuAuauaguu..... | 1 | 1 | hsa |
| .....gagguaguagguuguUuaguu..... | 2 | 1 | hsa |
| .....gagCuaguagguuguauaguu..... | 1 | 1 | hsa |
| .....gagguaguagguuUuauaguu..... | 4 | 1 | hsa |
| .....gagguaguagguuguauagCu..... | 4 | 1 | hsa |
| .....gagguaguagAuuguauaguu..... | 1470 | 1 | hsa |
| .....gagguaguagUuuguauaguu..... | 3 | 1 | hsa |
| .....Aagguaguagguuguauaguu..... | 1 | 1 | hsa |
| .....gagguaguagguugAauaguu..... | 1 | 1 | hsa |
| .....gagguaguaggCuguauaguu..... | 1 | 1 | hsa |
| .....gagguaguaAguuguauaguuu..... | 1 | 1 | hsa |
| .....gagguaUuagguuguauaguuu..... | 2 | 1 | hsa |
| .....gagguaguagAuuguauaguuu..... | 54 | 1 | hsa |
| .....gagguaguagUuuguauaguuu..... | 1 | 1 | hsa |
| .....gagguaguagguuguauaguuC..... | 2 | 1 | hsa |
| .....gagguaguaggAuguauaguuu..... | 1 | 1 | hsa |
| .....gagguaguagguuguauGguuu..... | 2 | 1 | hsa |
| .....gagguaguagguuguauaguuG..... | 5 | 1 | hsa |
| .....gagguaguagguuUuauaguuu..... | 2 | 1 | hsa |
| .....gagguaguagguuguauaguuu..... | 112 | 0 | hsa |
| .....gagguaguagguugCauaguuu..... | 18 | 1 | hsa |
| .....Uagguaguagguuguauaguuu..... | 2 | 1 | hsa |
| .....gagguagGagguuguauaguuu..... | 14 | 1 | hsa |
| .....gagguaguaggCuguauaguuu..... | 1 | 1 | hsa |
| .....gCgguaguagguuguauaguuu..... | 5 | 1 | hsa |
| .....gagguaguaUguuguauaguuu..... | 1 | 1 | hsa |
| .....gagAuaguagguuguauaguuu..... | 1 | 1 | hsa |
| .....gagguagCagguuguauaguuu..... | 1 | 1 | hsa |
| .....gagguaguagguuguauaAuuu..... | 1 | 1 | hsa |
| .....gagguaguagguuguauaUuuu..... | 1 | 1 | hsa |
| .....gagguaguagguuguauaguuuA..... | 100 | 1 | hsa |
| .....gagguaguagguuguauaguuuAa..... | 4 | 1 | hsa |
| .....gagguaguagguuguauaguuuG..... | 1 | 1 | hsa |
| .....gagguaguagguugCauaguuua..... | 1 | 1 | hsa |
| .....gagguaguagguuguauaguuuU..... | 2 | 1 | hsa |
| .....gagguaguagguuguauaguuua..... | 1 | 0 | hsa |
| ......agguagGagguuguauagu..... | 3 | 1 | hsa |
| ......agguaguagAuuguauagu..... | 5 | 1 | hsa |
| ......UgguaguagguuguauaguU..... | 1 | 1 | hsa |
| ......agguaguagguuguauagu..... | 9 | 0 | hsa |
| ......agguaguagguugCauaguu..... | 17 | 1 | hsa |
| ......agguaguagguuguauaguu..... | 107 | 0 | hsa |
| ......agguaguagguuguauaguA..... | 1 | 1 | hsa |
| ......agguagAagguuguauaguu..... | 1 | 1 | hsa |
| ......agguaguUgguuguauaguu..... | 1 | 1 | hsa |
| ......agguaguagCuuguauaguu..... | 2 | 1 | hsa |
| ......GgguaguagguuguauaguU..... | 1 | 1 | hsa |
| ......UgguaguagguuguauaguU..... | 28 | 1 | hsa |
| ......agguaguagguuguauGguu..... | 1 | 1 | hsa |
| ......agguaguagguGguauaguu..... | 2 | 1 | hsa |
| ......agguagGagguuguauaguu..... | 18 | 1 | hsa |
| ......agguaguagAuuguauaguu..... | 131 | 1 | hsa |
| ......agguaguagguuguauUguu..... | 1 | 1 | hsa |
| ......agguaguagguuguCuaguu..... | 1 | 1 | hsa |
| ......agguaguaUguuguauaguu..... | 2 | 1 | hsa |
| ......agUuaguagguuguauaguuu..... | 1 | 1 | hsa |
| ......UgguaguagguuguauaguuU..... | 3 | 1 | hsa |
| ......agguagGagguuguauaguuu..... | 1 | 1 | hsa |
| ......agguaguagguCguauaguuu..... | 1 | 1 | hsa |
| ......aggGaguagguuguauaguuu..... | 1 | 1 | hsa |
| ......agguaguagguugCauaguuu..... | 2 | 1 | hsa |
| ......agguaguagguuguauaguuA..... | 8 | 1 | hsa |
| ......agguaguagguuguauaguuu..... | 14 | 0 | hsa |
| ......agguaguagAuuguauaguuu..... | 2 | 1 | hsa |
| ......agguaguagguuguauaguuuG..... | 3 | 1 | hsa |
| ......agguaguagguuguauaguuua..... | 2 | 0 | hsa |
| ......agguaguagguuguauaguuAa..... | 1 | 1 | hsa |
| ......agguaguagguuguauaguuuU..... | 1 | 1 | hsa |
| .......UguaguagguuguauaguU..... | 3 | 1 | hsa |

hsa-let-7a-5p

hsa-let-7a-2-3p

aggu**ugagguaguagguuguauaguu**uagaauuacaucaagggagauaa**cuguacagccuccuagcuuucc**u

| | | | |
|---|---|---|---|
| .......gguaguagAuuguauagu..... | 1 | 1 | hsa |
| .......Uguaguagguuguauaguu..... | 14 | 1 | hsa |
| .......gguaguagAuuguauaguu..... | 4 | 1 | hsa |
| .......gguaguagguuguauGguu..... | 2 | 1 | hsa |
| .......gguaguagguugCauaguu..... | 3 | 1 | hsa |
| .......Aguaguagguuguauaguu..... | 1 | 1 | hsa |
| .......gguagGagguuguauaguu..... | 2 | 1 | hsa |
| .......gguaguagguuguauaguu..... | 9 | 0 | hsa |
| .......Uguaguagguuguauaguuu.... | 1 | 1 | hsa |
| .......gguaguagguuguauaguuA.... | 4 | 1 | hsa |
| .......gguaguagguuguauaguuGa... | 1 | 1 | hsa |
| .......gguaguagguuguauaguuuG... | 1 | 1 | hsa |
| ........guagGagguuguauaguu..... | 1 | 1 | hsa |
| ........guaguagguuguauaguu..... | 9 | 0 | hsa |
| ........guaguagAuuguauaguu..... | 2 | 1 | hsa |
| ........guaguagguuguauGguuu.... | 1 | 1 | hsa |
| ........guagGagguuguauaguuu.... | 1 | 1 | hsa |
| ........guaguagguuguauaguuuG... | 1 | 1 | hsa |
| ........guaguagguuguauaguuGag.. | 1 | 1 | hsa |
| ........................uagaauuacaucaagggagaua..... | 2 | 0 | hsa |
| ........................uagaauuacaucaagggagauaa.... | 7 | 0 | hsa |
| ..............................................uaacuguacagccuccuagcuuu... | 1 | 0 | hsa |
| ..............................................acuguacagccuccuagcuuuc.. | 1 | 0 | hsa |
| ..............................................cuguacagccuccuagcuuuc.. | 2 | 0 | hsa |
| ..............................................cuguacagccuccuagcuuucc. | 8 | 0 | hsa |
| ..............................................cuguacagcAuccuagcuuucc. | 1 | 1 | hsa |
| ..............................................cuguacagccuccuagcuuuccu | 1 | 0 | hsa |