



5' -	-3'	obs	
		exp	
	reads	mm	sample
aaauacaggaaaaauaggaacauucuaaugacaagugucaggaguuuuuaauggaacacacacuuuuuuuuucuguuugaauuacuaaggacauuuuuuugacuaagcaa			
.....((((((...))))(((((((.....(((((((((((.....)))))))))))))))))))).....			
.....aggaguuuuuaauggaaca.....	1	0	s08
.....aggaguuuuuaauggaacacac.....	4	0	s08
.....aggaguuuuuaauggaacacaU.....	1	1	s08
.....aggaguuuuuaauggaacacaca.....	17	0	s08
.....gaguauuuuaauggaacacaca.....	1	0	s08
.....uuuuuuuuucuguuugaauuauUuaagg.....	1	1	s08
.....uAuuuuugaauuuaauacu.....	3	1	s08
.....ucuuuuugaauuuaauUuaa.....	2	1	s08
.....uAuuuuugaauuuaauacuaa.....	3	1	s08
.....ucuuuuugaauuuaauacuaag.....	1	0	s08
.....ucuuuuugaauuuaauUuaagg.....	1	1	s08
.....ucuuuuugaauuuaauacuaagg.....	1	0	s08
.....uAuuuuugaauuuaauacuaagg.....	7	1	s08
.....uAuuuuugaauuuaauacuaagga.....	16	1	s08
.....ucuuuuugaauuuaauacuaagga.....	1	0	s08
.....ucuuuuugaauuuaauUuaaggac.....	1	1	s08
.....aggaguuuuuaauggaacacac.....	1	0	s04
.....ucuuuuugaauuuaauacuaagga.....	1	0	s04
.....ucuuuuugaauuuaauacuaaggU.....	2	1	s04
.....aggaguuuuuaauggaacacaca.....	3	0	s09
.....uuuuuuuuucuguuugaauuacuaagg.....	2	0	s09
.....uuuuuuuuucuguuugaauuauUuaagga.....	2	1	s09
.....uuuuuuuuucuguuugaauuacuaagga.....	1	0	s09
.....ucuuuuugaauuuaauacuaUgga.....	1	1	s09
.....aggaguuuuuaauggaacacac.....	7	0	s07
.....aggaguuuuGuaauggaacacac.....	1	1	s07
.....aggaguuuuuaauggaacacacG.....	6	1	s07
.....aggaguuuuuaauggaacacacU.....	3	1	s07
.....aggaguuuuuaauggaacacGca.....	1	1	s07
.....aggaguuuCaauauggaacacaca.....	2	1	s07

## Star

## Mature

aaauacaggaaaaauaggaacauucuaagacaagugucaggaguuuuauaugaacacacauuuauuuucugugauuguaauacuaaggacaucuuuuugacuaagcaa			
.....aggaguuuuauaugaacacUca.....	1	1	s07
.....aggaguuuuauaugaacacaca.....	99	0	s07
.....aUgaguuuuauaugaacacaca.....	1	1	s07
.....aAgaguuuuauaugaacacaca.....	1	1	s07
.....uuuuuuuucugugauuguaauacuaa.....	1	0	s07
.....uuuuuuuucugugauuguaauacuaaA.....	1	1	s07
.....uuuuuuuucugugauuguaauacuaagA.....	3	1	s07
.....uuuuuuuucugugauuguaauacuaagg.....	15	0	s07
.....uuuAuuuuucugugauuguaauacuaaggA.....	2	1	s07
.....uuuuuuuucugugauuguaauacCaaggA.....	1	1	s07
.....uuuuuuuucugugauuguaauacuaaggA.....	15	0	s07
.....uuuuuuuucugugauuguaauacuaaggU.....	1	1	s07
.....auuuuucugugauuguaauacuaagg.....	1	0	s07
.....uuucugugauuguaauacuaagg.....	1	0	s07
.....ucugugauuguaauacu.....	3	0	s07
.....ucugugauuguaauacua.....	1	0	s07
.....ucugugauuguaauacuaa.....	14	0	s07
.....ucugugauuguaauacuaag.....	4	0	s07
.....ucAguugauuguaauacuaagg.....	1	1	s07
.....ucugugauuguaauacuaaCg.....	3	1	s07
.....ucugugauuguaauacuaGgg.....	1	1	s07
.....ucugugauuguaaAacuaagg.....	1	1	s07
.....ucugugauuguaGuacuaagg.....	2	1	s07
.....Gcugugauuguaauacuaagg.....	1	1	s07
.....ucugugauuguaauGcuaagg.....	1	1	s07
.....ucugugauuguaauacCaagg.....	1	1	s07
.....ucugugaCuguaauacuaagg.....	1	1	s07
.....ucugugauuguaauacuaaggU.....	10	1	s07
.....ucugugauuguaauacuaagg.....	165	0	s07
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.....GcugugauuguaauacuaaggA.....	1	1	s07
.....ucugugauuguaGuacuaaggA.....	1	1	s07
.....ucugugauuguaauacuaGgga.....	1	1	s07
.....AcugugauuguaauacuaaggA.....	1	1	s07
.....uAugugauuguaauacuaaggA.....	2	1	s07
.....ucugugauuguaauacuaaggC.....	5	1	s07
.....ucugugauuguaauacuGagga.....	1	1	s07
.....ucugugauuguaauGcuaaggA.....	1	1	s07
.....ucugugauuguaauacuaaggG.....	5	1	s07
.....ucugugauuguaauacuaaggU.....	29	1	s07
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.....ucugugauuguaauacuaaggac.....	1	0	s07
.....aggaguuuuauaugaacacac.....	1	0	s06
.....uuuuuuuucugugauuguaauacuaaggA.....	1	0	s06
.....uuuuuuuucugugauuguaauacuaaggU.....	1	1	s06
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.....ucugugauuguaauacuaaggA.....	9	0	s06
.....ucugugauuguaauacuaagg.....	2	0	s03
.....ucugugauCguaauacuaaggA.....	1	1	s03
.....aggaguuuuauaugaacacaca.....	1	0	s15
.....ucugugauuguaauacuaaggA.....	1	0	s15
.....aggaguuuuauaugaacacac.....	1	0	s16
.....aggaguuuuauaugaacacacaca.....	8	0	s16
.....gaguuuuauaugaacacacaca.....	1	0	s16
.....uuuuuuuucugugauuguaauacuaa.....	1	0	s16
.....uuuuuuuucugugauuguaauacuaag.....	1	0	s16
.....uuuuuuuucugugauuguaauacuaagg.....	3	0	s16
.....uuuuuuuucugugauuguaauacuaaggA.....	1	1	s16
.....AuuuuuuucugugauuguaauacuaaggA.....	1	1	s16
.....uuuuuuuucugugauuguaauacuaaggA.....	10	0	s16
.....uuuuuuuucugugauuguaaCacuaaggA.....	1	1	s16
.....uuuuuuuucugugauuguaauacuaaggA.....	1	0	s16
.....ucugugauuguaauacuaagA.....	1	1	s16
.....ucugugauuguaauacuaagg.....	5	0	s16

## Star

## Mature

aaauacaggaaaaauaggaacauucuaagacaagugucaggaguuuuuaugaacacacauuuauuuucugugauuguaauacuaaggacauucuuuuugacuaagcaa			
.....ucugugauuguaauacuaaggC.....	1	1	s16
.....ucugugauuguaauacuaaggU.....	1	1	s16
.....ucugugauuguaauUcuaagga.....	1	1	s16
.....uAugugauuguaauacuaagga.....	1	1	s16
.....ucugugauuguaauacuaagga.....	24	0	s16
.....ucugugauuguaauacuaaggaU.....	4	1	s16
.....aggaguuuuuaugaaca.....	1	0	s19
.....aggaguuuuuaugaacacaU.....	5	1	s19
.....aggaguuuuuaugaacacac.....	2	0	s19
.....aggaguuuuuaugaacacacac.....	10	0	s19
.....aggaguuuuuaugaacacacaUa.....	1	1	s19
.....aggaguuuuuaugaacacacU.....	2	1	s19
.....cauuuuuuucugugauuguaauacuaag.....	2	0	s19
.....uuuuuuuuucugugauuguaauacuaa.....	1	0	s19
.....uuuuuuuuCguugauuguaauacuaagg.....	1	1	s19
.....uuuuuuuuucugugauuguaaCacuaagg.....	1	1	s19
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.....uuuuuuuuucugugauuguaauacuaaggU.....	1	1	s19
.....uuuuuuuuucugugauugGaaucuaagga.....	2	1	s19
.....uuuuuuuuucugugauuguaauacuaagga.....	19	0	s19
.....uuuuuuuuucugugauuguaauacuaagCa.....	2	1	s19
.....uuuuuuuuucugugauuguaauacuaCgga.....	1	1	s19
.....uuuuuuuuucugugauuguaauacuaagga.....	20	0	s19
.....uAuuuuucugugauuguaauacuaagga.....	1	1	s19
.....uuuuuuuuucugugauuguaauacuaaggaU.....	1	1	s19
.....uuuuuuuuucugugauuguaauacuaag.....	3	0	s19
.....uuuuuuuuucugugauuguaauacuaagg.....	4	0	s19
.....uuuuuuuuucugugauuguaauGcuagga.....	1	1	s19
.....uaCuuuucugugauuguaauacuaagga.....	2	1	s19
.....uauuuuucugugauuguaaCacuaagga.....	3	1	s19
.....uauuuuuuucugugauuguaauacuaaggU.....	5	1	s19
.....uauuuuuuucugugauuguaauacuaaggG.....	1	1	s19
.....uauuuuCcuugauuguaauacuaagga.....	1	1	s19
.....uauuuuuuucugugauuguaauacuGagga.....	1	1	s19
.....uauuuuuuucugugauuguaauacuaGgga.....	2	1	s19
.....uauuuuuCguugauuguaauacuaagga.....	1	1	s19
.....uauuuuuuucguGguuguaauacuaagga.....	1	1	s19
.....uauuCucugugauuguaauacuaagga.....	2	1	s19
.....uauuuuuuucugugauuguaauacuaagga.....	128	0	s19
.....uGuuuuuucugugauuguaauacuaagga.....	2	1	s19
.....uauuuuuuucugugauuguaauacuaaggaU.....	1	1	s19
.....uauuuuuuucugugauuguaauacuaaggacU.....	1	1	s19
.....auuuuuuuucugugauuguaauacuaagga.....	4	0	s19
.....uuucugugauuguaauacuaagga.....	2	0	s19
.....ucugugauuguaauacu.....	2	0	s19
.....ucugugauuguaauacua.....	3	0	s19
.....ucuguuAauuguaauacua.....	1	1	s19
.....ucugugauuguaauacuU.....	2	1	s19
.....ucCguugauuguaauacua.....	1	1	s19
.....ucugugauuguaauacuaa.....	1	0	s19
.....ucugugauuguaauacuaag.....	2	0	s19
.....Gcuugauuguaauacuaagg.....	1	1	s19
.....uUguugauuguaauacuaagg.....	1	1	s19
.....ucugugauCguaaucuaagg.....	1	1	s19
.....ucugugauuguaauacuaagC.....	1	1	s19
.....ucugugauGguaaucuaagg.....	1	1	s19
.....ucugugauuguaauacuaagA.....	3	1	s19
.....ucugugauuguaauacuaagU.....	1	1	s19
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.....ucugugauuguaauacuaGgga.....	1	1	s19
.....ucugugauuguaUuacuaagga.....	1	1	s19
.....ucugugauuguaauacuaaggU.....	5	1	s19
.....Ccugugauuguaauacuaagga.....	1	1	s19

## Star

## Mature

aaauacaggaaaaauaggaacauucuaagacaagugucaggaguuuuauaagaacacacauuuauuuucugugauuguaauacuaaggcaucuuuuuugacuaagcaa			
.....ucuguugauuguaauacuaaggC.....	1	1	s19
.....ucuguugauugCaauacuaagga.....	1	1	s19
.....ucuguugauCGuaauacuaagga.....	2	1	s19
.....ucuguugauuguaauGcuaagga.....	1	1	s19
.....ucuguugauuguaauacuaaggG.....	4	1	s19
.....ucuguugauuguaauacuaagCa.....	1	1	s19
.....ucuguuAauuguaauacuaagga.....	2	1	s19
.....ucuguugauuguaauacuaaggaU.....	3	1	s19
.....ucuguugauuguaauacuaaggac.....	3	0	s19
.....cuguugauuguaauacuaagga.....	2	0	s19
.....uguugauuguaauacuaaggacC.....	1	1	s19
.....uguugauuguaauacuaaggacU.....	1	1	s19
.....uguugauuguaauacuaaggaca.....	2	0	s19
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.....uuuuuuucuguugauuguaauacuaagg.....	4	0	s14
.....uuuuuuucuguugGuuguaauacuaagg.....	1	1	s14
.....uuuuuuucuguugauuguaauacuaagga.....	18	0	s14
.....uuuuuuuAguugauuguaauacuaagga.....	3	1	s14
.....uuuuuuucuguugauuguaauacuaaggU.....	2	1	s14
.....ucuguugauuguaauacuaaa.....	2	0	s14
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.....ucuguugauuguaauacuaagg.....	3	0	s14
.....uAguugauuguaauacuaagg.....	4	1	s14
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.....ucuguugauuguaauacuaCgga.....	1	1	s14
.....ucuguugauuguaauacuaaggU.....	1	1	s14
.....ucuguugauuguaauacuaaggC.....	1	1	s14
.....ucuguugauuguaauacuaGgga.....	1	1	s14
.....ucuguugauuguaauacuaaggaU.....	2	1	s14
.....aggaguuuuauaagaacacacU.....	1	1	s12
.....aggaguuuuauaagaacacac.....	8	0	s12
.....aggaguuuuauaagaacacacG.....	1	1	s12
.....aggGguuuuuauaagaacacacaca.....	1	1	s12
.....aggaguuuuauaagaacacacaca.....	68	0	s12
.....aggaguuuuauaagaacacacUa.....	1	1	s12
.....aggaguuuuauaagaacacacaca.....	1	1	s12
.....aggaguuuuauaagaacacacU.....	2	1	s12
.....aAaguuuuuuauaagaacacacaca.....	1	1	s12
.....aggaguuuuauaagaacacacaca.....	1	1	s12
.....uuuuuuuAguugauuguaauacuaagg.....	1	1	s12
.....uAguugauuguaauacu.....	2	1	s12
.....uAguugauuguaauacua.....	1	1	s12
.....uAguugauuguaauacuaa.....	5	1	s12
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.....uAguugauuguaauacuaaggac.....	3	1	s12
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.....aggaguuuuauaagaacacacaca.....	15	0	s13
.....aggaguuCauaagaacacacaca.....	1	1	s13
.....aggaguuuuauaauUaacacacaca.....	1	1	s13
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.....gaguuuuauaagaacacacaca.....	2	0	s13
.....uuuuuuucuguugauuguaauacuaa.....	1	0	s13
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.....Acuguugauuguaauacu.....	1	1	s13
.....ucuguugauuguaauacu.....	2	0	s13
.....ucuguugauuguaauacuaa.....	2	0	s13
.....ucuguugauuguaauacuaU.....	2	1	s13

## Star

## Mature

aaauacaggaaaaauaggaacauucuaaugacaagugucaggaguuuuuaaugaacacacacuuuuuuuucuguugauuguaauacuaagga	caucuuuuuauugacuaagcaa		
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.....ucuguuAuuuguaauacuaagg.....	1	1	s13
.....ucuguugauuguaauacuaagA.....	4	1	s13
.....ucuguugauuguaauacuaagg.....	31	0	s13
.....ucuguugauuguaauacuaaggG.....	1	1	s13
.....ucuguugauuguaauacuaagga.....	6	0	s13
.....ucuguugauuguaauacuaagga.....	1	0	s01
.....aggaguauuuuaaugaacacaca.....	4	0	s17
.....ucuguugauuguaauacuaagU.....	1	1	s17
.....ucuguCgauuguaauacuaagg.....	1	1	s17
.....ucuguugauuguaauacuaagg.....	2	0	s17
.....ucuguugauuguaaCacuaagg.....	1	1	s17
.....ucuguugauuguaauacuaagga.....	6	0	s17
.....ucuguugauCguauuacuaagga.....	1	1	s17
.....aggaguauuuuaaugaacacac.....	6	0	s10
.....aggaguauuuuaaugaacacacGa.....	1	1	s10
.....aggaguauuuuaaugaacacacG.....	3	1	s10
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.....aggaguauuuuaaugaacacacUa.....	1	1	s10
.....uuuuuuuucuguugauuguaauacuaa.....	2	0	s10
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.....ucuguugauuguaauacuaaggaUa.....	1	1	s10
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.....aggaguauuuuaaugaacacacG.....	4	1	s11
.....aUgaguauuuuaaugaacacaca.....	2	1	s11
.....uuuuuuuucuguugauuguaauacuaagga.....	1	0	s11
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.....uAguugauuguaauacuaa.....	2	1	s11
.....uAguugauuguaauacuaag.....	1	1	s11
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.....uAguugauuguaauacuaagga.....	3	1	s11
.....ucuguugauuguaauacuaagga.....	6	0	s11
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.....aggaguauuuuaaugaacGcac.....	1	1	s02
.....aggaguauuuuaaugaacacUc.....	2	1	s02
.....Gggaguauuuuaaugaacacac.....	2	1	s02
.....aggaguauuuuaGugaacacac.....	1	1	s02
.....aggaguaCuauaaugaacacac.....	1	1	s02
.....aggaguauuuuaaugaacacacU.....	32	1	s02
.....aggGguauuuuaaugaacacac.....	1	1	s02

## Mature

aaauacagggaaaaaauaggaacauucuaaugacaaugucaggaguuuuuaugaacacacuuuuuuuuucuguugauuguaauacuaaggacacuuuuuauagacuaagcaa			
.....aggaguuuuuaaAgaacacac.....	1	1	s02
.....aggaguuuuuaaugaacacac.....	150	0	s02
.....aggaguuuuCaaugaacacac.....	1	1	s02
.....aggaguuuuuaaugaacacacA.....	2	1	s02
.....aggaguuuuuaaagGacacac.....	3	1	s02
.....aggagGauuuuaaugaacacacac.....	2	1	s02
.....aggaguuuuuaaCGaacacacac.....	1	1	s02
.....aggaguuuuuaauggaaUacacac.....	4	1	s02
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.....aggaguuuuuaaugaacacUca.....	1	1	s02
.....aUgaguuuuuaaugaacacacac.....	3	1	s02
.....aggaguuuuuaaugaacacGca.....	4	1	s02
.....aggaguuuuuaaugaacacacAa.....	3	1	s02
.....aggaguuuuuaaCugaacacacac.....	1	1	s02
.....aggaguuuuuaaugaacacUaca.....	2	1	s02
.....aggaguuuuuaaagGacacacac.....	7	1	s02
.....aggaguuuuuaaugaacacacG.....	33	1	s02
.....aggaguuuuuaaugaacacacUa.....	6	1	s02
.....aggaguuuuCaaugaacacacac.....	2	1	s02
.....agUaguuuuuaaugaacacacac.....	1	1	s02
.....aggagCauuuuaaugaacacacac.....	1	1	s02
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.....aggaguaCuuaaugaacacacac.....	2	1	s02
.....aggaguuuuuaaugaGcacacac.....	4	1	s02
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.....aggaguuuuuCaugaacacacac.....	1	1	s02
.....aggaguuuuuaauAaacacacac.....	1	1	s02
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.....aggaguuuuCuaugaacacacac.....	3	1	s02
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.....aggaguuuuuaaGgaacacacac.....	1	1	s02
.....aggaguuuuuGaugaacacacac.....	7	1	s02
.....aggaguuuuGuuaugaacacacac.....	3	1	s02
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.....aggaguuuCauaaugaacacacac.....	2	1	s02
.....aggaguuuuuaaugaacacacac.....	7	1	s02
.....aggaguuuuuaaugaacacacC.....	22	1	s02
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## Star

## Mature

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## Star

## Mature

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Star

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