



Star

5'-	-3'	exp	
gugugccuuauaaaugggcuauaaguuaacggggggaauagcucaaaauaguagaucgccacucgc <u>augcgggaggguaccgggaucga</u> uac <u>ccgaauuccacucucuugc</u> accauu (((.((((.....))))).))......(((.(((.((((.....))))).))))).))....(((.(.((((((.....))))).))))).)).)).))......	reads	mm	sample
.....aguaacggggggaauuagcucaaa.....	1	0	s13
.....ucgcUugcgggaggguaccggga.....	1	1	s13
.....Aaugcgggaggguaccgggauc.....	2	1	s13
.....augcgCgagguaaccggga.....	2	1	s13
.....augcgggaggguaccggga.....	123	0	s13
.....augcgggaggguaccgggau.....	1	0	s13
.....augcgggaggguCccgggauc.....	1	1	s13
.....augcgCgagguaaccgggauc.....	1	1	s13
.....augcgggagUuaccgggauc.....	1	1	s13
.....augcgggagguaaccgggauc.....	28	0	s13
.....augcgggaggguaccgggauA.....	1	1	s13
.....augcgggaggguaccgggaucg.....	6	0	s13
.....ugcgggaggguaccgggauc.....	2	0	s13
.....ugcgggagUuaccgggaucg.....	1	1	s13
.....ugcgCgagguaaccgggaucg.....	1	1	s13
.....ugcgggagguaaccgggaucg.....	1	0	s13
.....Acgggaggguaccgggauc.....	3	1	s13
.....Acgggaggguaccgggaucg.....	3	1	s13
.....cgggaggguaccgggaucg.....	1	0	s13
.....Agggaggguaccgggaucg.....	6	1	s13
.....agguaccgggaucgUuac.....	1	1	s13
.....aauaguaacggggggaauuagcu.....	1	0	s60
.....aauaguaacggggggaauuagcuc.....	1	0	s60
.....Aaguaacggggggaauuagc.....	1	1	s60
.....Aaguaacggggggaauuagcu.....	1	1	s60
.....Aaguaacggggggaauuagcuc.....	3	1	s60
.....aguaacggggggaauuagcuc.....	2	0	s60
.....aacggggggaauuagcucaa.....	1	0	s60
.....acgggggaGuagcucaaa.....	1	1	s60
.....acggggggaauuagcucaaa.....	1	0	s60
.....uuGgcAugcgggaggguac.....	1	1	s60
.....ucgcGugcgggaggguaccgggauc.....	1	1	s60
.....gcaugcgggaggguaccggga.....	1	0	s60

## Mature

## Star

gugugccuuauaauggggcuauaguaacgggggauuagcucaaaauaguagaucgccacucgcgaugcgggagguaccggggaucgaucacccgaauccuccacucugcaccgau

.....Aaugcgggagguaccggga.....	6	1	s60
.....caugcgggagguaccggga.....	1	0	s60
.....Aaugcgggagguaccgggau.....	2	1	s60
.....augcgggCgguaccggga.....	7	1	s60
.....augcgCgagguaccggga.....	3	1	s60
.....augcgggagguCccggga.....	6	1	s60
.....augcgggagguaccgggC.....	1	1	s60
.....augcgggagguaccgAga.....	1	1	s60
.....augcgggagguaccggga.....	729	0	s60
.....augcgggCgguaccgggau.....	1	1	s60
.....augcgggagguaccgggau.....	62	0	s60
.....augcgggagguaccgggauc.....	62	0	s60
.....augcgggagguaccgggauU.....	8	1	s60
.....augcgCgagguaccgggauc.....	1	1	s60
.....augcgggagguaccgggaucg.....	65	0	s60
.....augcgggCgguaccgggaucg.....	2	1	s60
.....ugcgggagguaccgggau.....	2	0	s60
.....ugcgggagguaccgggauc.....	6	0	s60
.....ugcgggagguaccgggauU.....	1	1	s60
.....ugcgggagguaccUgggauc.....	1	1	s60
.....ugcgggagguaccgggaucg.....	2	0	s60
.....gcgggCgguaccgggauc.....	1	1	s60
.....Acgggagguaccgggauc.....	7	1	s60
.....gcgggagguaccgggauA.....	1	1	s60
.....gcgggagguaccgggauc.....	9	0	s60
.....Acgggagguaccgggaucg.....	12	1	s60
.....gcgggagguaccgggaucg.....	6	0	s60
.....CgggagguaccgggaucC.....	1	1	s60
.....cgggagguaccgggaucg.....	3	0	s60
.....Agggagguaccgggaucg.....	13	1	s60
.....Agggagguaccgggaucgagua.....	1	1	s60
.....ggagguaccgggaucgUuacc.....	1	1	s60
.....auaguaacgggggauuagcucaaa.....	1	0	s09
.....Aggggggauuagcucaaaaua.....	1	1	s09
.....augcgCgagguaccggga.....	1	1	s09
.....augcgggCgguaccggga.....	1	1	s09
.....augcgggagguaccggga.....	61	0	s09
.....augcgggagguaccgggau.....	5	0	s09
.....augcgCgagguaccgggauc.....	1	1	s09
.....augcgggCgguaccgggauc.....	1	1	s09
.....augcgggagguaccgggauc.....	22	0	s09
.....augcgggagguaccgggaucg.....	5	0	s09
.....ugcgggagguaccgggau.....	1	0	s09
.....ugcgggagguaccgggauc.....	2	0	s09
.....gcgggagguaccgggauc.....	1	0	s09
.....Acgggagguaccgggauc.....	2	1	s09
.....gcgggagguaccgggaucg.....	3	0	s09
.....Agggagguaccgggaucg.....	6	1	s09
.....Aagguaccgggaucgagua.....	1	1	s09
.....agguaccgggaucgauGc.....	1	1	s09
.....agguaccgggaucgauacc.....	1	0	s09
.....acuuGcgaugcgggagguaccggga.....	1	1	s72
.....caugcgggagguaccggga.....	1	0	s72
.....augcgggagguaccgAga.....	2	1	s72
.....augcgggGgguaccggga.....	1	1	s72
.....augcgggagguaccggga.....	1022	0	s72
.....augcgggagguGccggga.....	2	1	s72
.....augcgggagguaccAagga.....	2	1	s72
.....augcgggCgguaccggga.....	4	1	s72
.....aGcgggagguaccggga.....	1	1	s72
.....augcgggagguCccggga.....	1	1	s72
.....augcgggagguaccgggau.....	52	0	s72
.....augcgggagguaccgggauc.....	114	0	s72
.....augcgCgagguaccgggauc.....	1	1	s72
.....augcgggagguaccgggauU.....	5	1	s72
.....augcgggagguaccgggauA.....	1	1	s72
.....augcgggagguCccgggaucg.....	2	1	s72
.....augcgCgagguaccgggaucg.....	1	1	s72

## Mature

## Star

gugugccuuauaaauggggcuaauaguaacgggggauuagcucacaaauagauagcgcacacucgcgaugcgggagguaccggggaucgaucgaucacccgaauccuccacucugcaccgauu

.....augcgggagguaccggggaucg.....	154	0	s72
.....augcgggCgguaccggggaucg.....	1	1	s72
.....augcgggaCguaccggggaucg.....	1	1	s72
.....augcgggagguGccggggaucg.....	1	1	s72
.....augcgggagguaccggggaucgauc.....	1	0	s72
.....ugcgggagguaccggggauc.....	7	0	s72
.....ugcgggagguaccggggaucg.....	9	0	s72
.....gcccgggagguaccggggauU.....	1	1	s72
.....gcgggagguaccggggauc.....	17	0	s72
.....Acgggagguaccggggauc.....	4	1	s72
.....gcgggagguaccggggaucg.....	27	0	s72
.....Acgggagguaccggggaucg.....	12	1	s72
.....gcgggCgguaccggggaucg.....	1	1	s72
.....gcgggaCguaccggggaucg.....	1	1	s72
.....cgggagguaccggggaucg.....	8	0	s72
.....Aggggagguaccggggaucg.....	59	1	s72
.....aauaguCacgggggauuagcuc.....	1	1	s52
.....auaguaacgggggauuag.....	2	0	s52
.....auaguaacgggggauuagcucaaa.....	1	0	s52
.....auaguaacgggggauuagcucaaa.....	2	0	s52
.....aguaacgggggauuagcu.....	1	0	s52
.....acgggggauuagcucaaa.....	1	0	s52
.....aAgggggauuagcucaaa.....	1	1	s52
.....Agggggauuagcucaaaauagua.....	1	1	s52
.....acuuAgcaugcgggagguaccggggaucga.....	3	1	s52
.....Auucgcaugcgggagguaccggggauc.....	2	1	s52
.....Aucgcaugcgggagguaccggga.....	1	1	s52
.....gcaugcgggagguaccggga.....	1	0	s52
.....gcGugcgggagguaccggga.....	1	1	s52
.....gcGugcgggagguaccgggau.....	1	1	s52
.....Aaugcgggagguaccggg.....	1	1	s52
.....Aaugcgggagguaccggga.....	3	1	s52
.....Aaugcgggagguaccgggau.....	1	1	s52
.....Aaugcgggagguaccggggaucga.....	1	1	s52
.....augcgggagguaccggga.....	212	0	s52
.....aGgcgggagguaccggga.....	1	1	s52
.....augcgggCgguaccggga.....	3	1	s52
.....augcgggagguaccgggau.....	35	0	s52
.....augcgggagguaccggggauc.....	37	0	s52
.....augcgggagguaccgggauA.....	1	1	s52
.....augcgggagguaccgggauU.....	3	1	s52
.....augcgggagguaccggggaucC.....	1	1	s52
.....augcgggagguaccggggaucg.....	34	0	s52
.....augcgggagguaccggggaucgaucacc.....	1	0	s52
.....ugcgggagguaccgggau.....	4	0	s52
.....ugcgggagguaccggggauc.....	3	0	s52
.....gcgggagguaccgggauU.....	1	1	s52
.....gcgggagguaccggggauc.....	5	0	s52
.....Acgggagguaccggggauc.....	8	1	s52
.....gcgggagguaccggggaucg.....	9	0	s52
.....Acgggagguaccggggaucg.....	6	1	s52
.....cgggagguaccggggaucg.....	1	0	s52
.....Aggggagguaccggggaucg.....	11	1	s52
.....agguaccggggaucgUuac.....	1	1	s52
.....agguaccggggaucggaucacc.....	1	0	s52
.....agguaccggggaucgUuacc.....	1	1	s52
.....agguaccggggaucgGuacccg.....	2	1	s52
.....aauaguaacgggggauua.....	2	0	s23
.....auaguaacgggggauuagcu.....	1	0	s23
.....auaguaacgggggauuagcuc.....	2	0	s23
.....uaguaacgggggCuagcuc.....	1	1	s23
.....Aaugcgggagguaccgggau.....	1	1	s23
.....Aaugcgggagguaccggggauc.....	1	1	s23
.....augcggAagguaccggga.....	1	1	s23
.....augcgggagguCccggga.....	1	1	s23
.....augcgggGgguaccggga.....	1	1	s23
.....augcgggCgguaccggga.....	1	1	s23
.....augcgggagguaccggga.....	156	0	s23

## Mature

## Star

gugugccuuauaaugggcuaauaguaacgggggauuagcucuaaaauaguaagaucgccacucgcgaugcgggagguaccggggaucggaucacccgaauccuccacucugcaccgauu

.....augcgCgagguaccggga.....	5	1	s23
.....augcgggCgguaccggga.....	1	1	s23
.....augcgggagguaccgggUu.....	1	1	s23
.....augcgggagguaccgggau.....	16	0	s23
.....augcgggagguaccgggauc.....	30	0	s23
.....augcgggagguaccgggaUA.....	2	1	s23
.....augcgggagguaccgggauU.....	9	1	s23
.....augcgggagguaccgggaucg.....	12	0	s23
.....augcgCgagguaccgggaucg.....	2	1	s23
.....ugcgggagguaccgggauc.....	1	0	s23
.....ugcgggagguaccgggauU.....	1	1	s23
.....Acgggagguaccgggauc.....	4	1	s23
.....gcgggagguaccgggauU.....	1	1	s23
.....gcgggagguaccgggauc.....	6	0	s23
.....Acgggagguaccgggaucg.....	4	1	s23
.....gcgggagguaccgggaucg.....	1	0	s23
.....Agggagguaccgggaucg.....	5	1	s23
.....ggagguaccgggaucgga.....	1	0	s23
.....agguaaccgggaucgaucacc.....	1	0	s23
.....aauaguaacgggggauuag.....	1	0	s35
.....aauaguaacgggggauuagc.....	2	0	s35
.....aauaguaacgggCgauuagc.....	1	1	s35
.....aauaguaacggggCauuagc.....	1	1	s35
.....aauaguaaAgggggauuagcucaa.....	1	1	s35
.....aauaguaacgggggauuagcucaaa.....	1	0	s35
.....auaguaacgggggauuagc.....	1	0	s35
.....auaguaacgggggauuagcu.....	2	0	s35
.....auaguaacgggggauuagcuca.....	3	0	s35
.....auaguaaAgggggauuagcucaa.....	2	1	s35
.....aguaacgggggauuagcu.....	2	0	s35
.....aguaacgggggauuagcucaa.....	1	0	s35
.....acgggggauuagcucaaa.....	2	0	s35
.....acuuGgcaugcgggagguac.....	1	1	s35
.....acuuGgcaugcgggagguacc.....	1	1	s35
.....acuuGgcauUcgggagguaccggg.....	1	1	s35
.....Aucgcaugcgggagguaccgggau.....	1	1	s35
.....uuGgcaugcgggagguaccgggau.....	1	1	s35
.....Aaugcgggagguaccggg.....	2	1	s35
.....Aaugcgggagguaccggga.....	1	1	s35
.....Aaugcgggagguaccgggauc.....	2	1	s35
.....augcgggagguaccggga.....	168	0	s35
.....augcgCgagguaccggga.....	6	1	s35
.....augcgggCgguaccggga.....	1	1	s35
.....augcgggGgguaccggga.....	1	1	s35
.....augcgggagguaccgggau.....	38	0	s35
.....augcgggagguaccgggauU.....	2	1	s35
.....augcgggagguaccgggauc.....	36	0	s35
.....augcgCgagguaccgggaucg.....	1	1	s35
.....augcgggagguaccgggaucg.....	12	0	s35
.....augcgggagguaccgggaucga.....	1	0	s35
.....ugcgggagguaccgggau.....	3	0	s35
.....ugcgggagguaccgggauc.....	1	0	s35
.....Acgggagguaccgggauc.....	7	1	s35
.....gcgggagguaccgggauc.....	4	0	s35
.....Acgggagguaccgggaucg.....	2	1	s35
.....gcgggagguaccgggaucg.....	1	0	s35
.....Agggagguaccgggaucg.....	8	1	s35
.....agguaaccgggaucgaucacc.....	1	0	s35
.....aauaguaacgggggauuagcucaaa.....	1	0	s85
.....cGugcgggagguaccgggaucg.....	2	1	s85
.....augcgggGgguaccggga.....	2	1	s85
.....augcgggagguaccggga.....	1764	0	s85
.....augcgggagguaccAgga.....	1	1	s85
.....augcgggagguaccgggG.....	1	1	s85
.....augcgggagguGccggga.....	2	1	s85
.....augcggAagguaccggga.....	1	1	s85
.....augcgggCgguaccggga.....	8	1	s85
.....augcgggagguaccgAga.....	1	1	s85

## Mature

## Star

gugugccuuauaaauggggcuaauaguacgggggauuagcucuaauaguagaucgccacuucgc	augcgggagguaccgggaucgauaccggaucuccacucuuugc	accauu			
.....	augcgggagAuaccggga		1	1	885
.....	augcgggagguaccgggC		2	1	885
.....	augcgggagguCccggga		4	1	885
.....	augcgggaggAaccggga		2	1	885
.....	augcgggagguaccgggau		92	0	885
.....	augcgggGgguaccgggau		2	1	885
.....	augcgggagguaccgggauU		8	1	885
.....	augcgggagguCccgggauc		1	1	885
.....	augcgggagguaccAgggauc		1	1	885
.....	Uugcgggagguaccgggauc		1	1	885
.....	augcgggagguGccgggauc		2	1	885
.....	augcgggCgguaccgggauc		2	1	885
.....	augcgggagguaccgggauc		412	0	885
.....	augcgggagguaccgggauG		3	1	885
.....	augcgggagguaccgggaucg		1	1	885
.....	augcgggagguCccgggaucg		2	1	885
.....	augcgggagguaccgggaucg		455	0	885
.....	augcgggagguaccgUggaucg		1	1	885
.....	augcgggagguaccgggauUg		1	1	885
.....	augcgggCgguaccgggaucg		1	1	885
.....	augcgggagguaccgggaucgUuacc		1	1	885
.....	ugcgggagguaccgggau		8	0	885
.....	ugcgCgagguaccgggau		1	1	885
.....	ugcgggagguaccgggauc		24	0	885
.....	ugcgggaCguaccgggaucg		2	1	885
.....	ugcgggagguaccgggaucg		32	0	885
.....	ugcgggagUuaccgggaucg		1	1	885
.....	ugcgggagguaccgggaucC		1	1	885
.....	gcgggagguaccgggauc		44	0	885
.....	gcgggagguaccgggauG		1	1	885
.....	Acgggagguaccgggauc		20	1	885
.....	Acgggagguaccgggaucg		33	1	885
.....	gcgggagguaccgggaucg		92	0	885
.....	gcgggagAuaccgggaucg		1	1	885
.....	gcgggagUuaccgggaucg		1	1	885
.....	gcgggagguCccgggaucg		1	1	885
.....	gcgggagguGccgggaucg		1	1	885
.....	gcgggCgguaccgggaucg		5	1	885
.....	cgggagguaccgggaCcg		1	1	885
.....	cgggagguaccgggaucC		2	1	885
.....	Agggagguaccgggaucg		81	1	885
.....	cgggagguaccgggaucg		29	0	885