

```
1
snaana -----
snaere --CATCCGCCATCCGCCGCGATCCGCAGGCCGGTGTGGAATGCTGGGCACGATCATTTGCATGTGG
snagri -----
snaamel -----
snamoj -----ATTGGGTGTGCGATGCTGGCCACGATCGCTCACATTTTG
snaper -----
snapse -----
snasec -----
snasim -----
snavir -----
snawil -----AATCTGTGGATGTGGATGTGGATGAGATCTTGGCTTT
snayak ACAGGTTGCCATCCGCCGCGATCCGCAGGCCGGTGTGGAATGCTGGGCACGATCATTTGCATGTGG
```

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71
snaana -----TGCG-----
snaere CCTGGCATAAAGCATAAAGTTGAGCTCTGC TGGATGGCGG GATGGTTGAA TCGCTGGAT GGATGCA---
snagri -----AACCAATGGGTGTGCGGACGCTGC AAGCCTCAAG CATTGGCAT ATGCATACTC
snaamel -----CGGGATGGAGG AATGGCTGGAT GGATCCAATG
snamoj CATATGGCAAAGC---CATAAAGTTTACA TGTCTGACGC TCTGATGAGC CGGCAATAT CGGCACAGTT
snaper -----CATGTGGCGCGGCAT AAGGCCAAGA GCGGGGAGC GGAAGCGGGG
snapse -----
snasec -----CCAC TGGATGGCGG GATGGCGGAA TGGCTGGAT GGATCCA---
snasim -----GG AATGGCTGGAT GGATCCA---
snavir -----GTCTGA TGAAGCTGCA ATAT CGGGACAGTT
snawil GGTTTTACAGTTAAGCTCGCTGATCGCTGCAAGGTGGCCA CACGATCATTTTGCATAGAG AGAGAGAGAC
snayak CCTGGCATAAAGCATAAAGTTGAGCTCTGC TGGATGGCGG GATGGCTGAA GCGCTGGAT GGATTCA---
```

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141
snaana --ATGGGA--TGC--GA--TGGGA-----CAGTT-----G
snaere --ATGCGA--TGC--GA--TGGGA-----CAGTT-----G
snagri GTTTACATGGTTGGGAACGTGATGAGTTGGA AATCGCATCG GAACAGTTGT CCACGACGTC AAGCGTCGCG
snaamel CGATGCCA--TGC--GA--TGGGA-----CAGTT-----G
snamoj GTCCACGACTGTGAGAGCGTA GATCCGTGGA-----GCGTCAAGC-----G
snaper A-GAGGGG--CGCGCA GA--TGGGA-----CAGTT-----G
snapse -----GGGG--CGCGCA GA--TGGGA-----CAGTT-----G
snasec --ATGCGA--TGC--GA--TGGGA-----CAGTT-----G
snasim --ATGCGA--TGC--GA--TGGGA-----CAGTT-----G
snavir GTCCACGA--TGC--CA--TGGGA-----GC CGTCAGGC-----A
snawil AGCACTGAGGATGGAATGGA GA--TGGGA-----CAGTT-----G
snayak --CTGCGA--TGC--GA--TGGGA-----CAGTT-----G
```

```
211
snaana TCGTGGC-----TGGGTGTGTCAGCCGGCGGGGCAATTTCTCT--C--CGGGA
snaere TCGTGGC-----TGGGTGTGTCAGCCGGCGGGCGCAATTTCTCT--C--CGGGA
snagri TCGTGGC-----TGGGTGTGTCAGCT-----GT AATTTCTCCA TGC--AGACA
snaamel TCGTGGC-----TGGGTGTGTCAGCCGGCGGGCGCAATTTCTCT--C--CGGGA
snamoj TCGTGGC-----TGGGTGTGTCAGCT-----GC AATTTCTCCT--C--AGGCA
snaper TCGTGGC-----TGGGTGTGTCAGTCGGCGGGCGCAATTTCTCT--C--CGGGT
snapse TCGTGGC-----TGGGTGTGTCAGTCGGCGGGCGCAATTTCTCT--C--CGGGT
snasec TCGTGGC-----TGGGTGTGTCAGCCGGCGGGCGCAATTTCTCT--C--CGGGA
snasim TCGTGGC-----TGGGTGTGTCAGCCGGCGGGCGCAATTTCTCT--C--CGGGA
snavir TCGTGGC-----TGGGTGTGTCAGCT-----GC AATTTCTCCA--C--AGACA
snawil TCGTGGCCCAACAGATTTTCTTACTTCTTTTCTATCTTTTATTTTTTATTTTACCTTACCTTTTTTGT
snayak TCGTGGC-----TGGGTGTGTCAGCCGGCGGGCGCAATTTCTCT--C--CGGGA
```

```
281
snaana TTTGATTTATGCCAT-----GCGACCG--CA--CA--TCGCTCACTTG--TC
snaere TTTGATTTATGCCAT-----GCGATCG--CA--CA--TCGCTCACTTG--TC
snagri TTTGATTTATGCCAT-----GCGATCGA GTGATGATCA TCA--TCGCTCACTTG--TC
snaamel TTTGATTTATGCCAT-----GCGATCG--CA--CA--TCGCTCACTTG--TC
snamoj TTTGATTTATGCCAT-----GCAATCG--TGGACGATCA TCACTCGCTCACTTG--TC
snaper TTTGATTTATGCAATGCGATCGGCGATCG--CA--CA--TCGCTCACTTGTCG--TC
snapse TTTGATTTATGCAATGCGATCGGCGATCG--CA--CA--TCGCTCACTTGTCG--TC
snasec TTTGATTTATGCCAT-----GCGATCG--CA--CA--TCGCTCACTTG--TC
snasim TTTGATTTATGCCAT-----GCGATCG--CA--CA--TCGCTCACTTG--TC
snavir TTTGATTTATGCCAT-----GCGATCG--TGGACGATCG TCA--TCTCTCACTTG--TC
snawil TTTGATTTATG-----TTAAATG-----TCTTTTG-----GC
snayak TTTGATTTATGCCAT-----GCGATCG--CA--CA--TCGCTCACTTGTCGAGTCGGAATC
```

351

snaana	CAACTCTGAT	TTTGTAGTC	---	GAA	GGAGGCGGAC	G	---	AGGGA	---
snaere	GGAGTCGGA	TTCGTGGAC	---	CCCTGAG	AGGGGTGGC	---	---	TG	CAGATCTGCC
snagri	CAACTCCAA	---CGAAATC	---	---	---	---	---	---	---
sname1	GGAGTCGGA	TTCGTGGAC	---	CCCGGAG	AGGGGATGGT	---	---	GGAATG	GAGATCTGCC
snamej	GAGC	---	---	---	---	---	---	GAGACG	ACGACCCA
snaper	GGAGTCGTC	GTCGTGGTCG	TCATCATCAG	GCTGGATGAT	GGCTCCCCGA	CGAGGAGCAG	GGGGTTTGCC	---	---
snapse	GGAGTCGTC	GTCGTGGTCG	TCATCATCAG	GCTGGATGAT	GGCTCCCCGA	CGAGGAGCAG	GGGGTTTGCC	---	---
snasec	GGAGTCGGA	TTCGTGGAC	---	CCCTGAG	AGGGGCTGGT	---	---	GGGATG	GAGATCTGCC
snasim	GGAGTCGGA	TTCGTGGAC	---	CCCTGAG	AGGGGCTGGT	---	---	GGGATG	GAGATCTGCC
snavir	GA	---GCGGC	---	---	---	---	---	---	---
snavil	AAAGTCGAC	GTCGTAGTC	---	---	---	---	---	---	---
snyak	GGAGTCGGA	TTCGTGGAC	---	CCCTGAG	AGGGGATGGC	T	---	GGGGCTG	AAGATCTGCC

421

snaana	---	GATCAT	ATCTC	CTG	CTCCACTTC	---	---	AGCACT	---	GTGATTAAGC	AATATG	---
snaere	---	GATCAT	ATCTA	CTG	CTCCACATC	---	---	AGCGCA	---	GCGATTAAGC	AATATGTTTT	---
snagri	---	CTACT	ATCTG	TTG	CTCCACATT	---	---	CGCGCA	---	GCGATTAAGC	AATATGTTTT	---
sname1	---	GATCAT	ATCTG	CTG	CTCCACATC	---	---	AGCGCT	---	GCGATTAAGC	AATATGTTTT	---
snamej	---	GATCAT	ATCTG	TTG	CTCCACATC	---	---	CGCGCA	---	GCGATTAAGC	AATATGTTTT	---
snaper	CAGAGATCAT	ATCTT	CTG	CTCCACATC	---	---	---	AGCGCT	---	GCGATTAAGC	AATATG	---
snapse	CAGAGATCAT	ATCTT	CTG	CTCCACATC	---	---	---	AGCGCT	---	GCGATTAAGC	AATATG	---
snasec	---	GATCAT	ATCTG	CTG	CTCCACATC	---	---	AGCGCT	---	GCGATTAAGC	AATATGTTTT	---
snasim	---	GATCAT	ATCTG	CTG	CTCCACATC	---	---	AGCGCT	---	GCGATTAAGC	AATATGTTTT	---
snavir	---	CAGATCAT	ATCGG	CTG	CTCCACATC	---	---	CGCGCA	---	GCGATTAAGC	AATATGTTTT	---
snavil	---	GTCAT	GTGTGCTCTA	CTCTATTTTT	TTATTTTTTT	TTAGCACTAA	ACGATTAAGC	AATATG	---	---	---	---
snyak	---	GATCAT	ATCTG	CTG	CTCCACATC	---	---	AGCGCA	---	GCGATTAAGC	AATATG	---

491

snaana	TGGTTTC	---	---	TTAT	TATATGATA	TATGAGACTG	TGTATGTGTG	G-A	---
snaere	---	---	---	TCTT	TCCAGAT	---	CA	G-G	---
snagri	TGG	---	---	TAAT	GTTAAGAGTT	TAGCAGTGCC	AACAGCAGCA	GCA	---
sname1	TTTTTTT	---	---	TTAT	TCCAGAT	---	CA	G-G	---
snamej	TGGCCTTAAC	ATGGCCGCAT	---	TTGG	CATTAGCAG	CAGCAGCAGC	AACAGCAGCA	GCA	---
snaper	---	TT	---	TTTG	GCCATG	CGAAGCATTT	GGCAGCAATA	G-A	---
snapse	---	TT	---	TTTG	GCCATG	CGAAGCATTT	GGCAGCAATA	G-A	---
snasec	T	---	---	TTAT	TCCAGAT	---	CA	G-G	---
snasim	---	---	---	TTAT	TCCAGAT	---	CA	G-G	---
snavir	TGGCCTTAAC	ATGACCGCAT	TTGGCATTTG	GCAGCACCAG	CACCGGCATC	GGCAGCAGCA	GCA	---	
snavil	---	---	---	GTGG	TACATAGACA	TACACCCGCT	ATCTTGCA	GCAAATCTCT	---
snyak	---	---	---	TTTT	TTTGGAT	---	CA	G-G	---

561

snaana	TTAACCCACA	CTT	ACGC	CCGCTTATCT	---	GA	---	GATC	---	TTTTTCG	GTGCGCT	---
snaere	CTTACCCACA	CTT	ACAC	CCGCTTATCT	---	GG	---	CATC	---	TCCCG	ACCGCT	---
snagri	GCAGCCCCCA	CATAAGACAC	---	CCGCTTCCCT	CGCTGGTTTG	GTCCTATC	TT	GGTGA	TCTCC	ACTGGC	GGG	---
sname1	CTTACCCACA	CTT	ACAC	CCGCTTATCT	---	GG	---	CATC	---	TCCCG	ACCGCT	---
snamej	GCAGCCCCCA	CATGAGACAC	---	CCGCTTCACT	---	GG	TTTT	GTCCTATCTA	TTGTATCTGC	ATCGGT	GGG	---
snaper	CTAACCCACA	CTT	ACAC	CCGCTTATCT	---	GC	---	AGTCGG	ATCTCTCTCG	CGGGGT	---	---
snapse	CTAACCCACA	CTT	ACAC	CCGCTTATCT	---	GC	---	AGTCGG	ATCTCTCTCG	CGGGGT	---	---
snasec	CTTACCCACA	CTT	ACAC	CCGCTTATCT	---	GG	---	CATC	---	TCCCG	ACCGCT	---
snasim	CTTACCCACA	CTT	ACAC	CCGCTTATCT	---	GG	---	CATC	---	TCCCG	ACCGCT	---
snavir	---	GCCCCCA	CATGGGACAC	CCGCTTCACT	---	GG	TTTT	GGCTTATC	TT	ACTGATCTCC	ATCGTTGGGG	---
snavil	CTCTCTCACT	CTCTCTCTAT	CTATTATCT	CTATTATCT	C	AGATTT	ACCTCAGTTG	GTCTGTCTGC	---	AGCACT	---	---
snyak	CTTACCCACA	CTT	ACAC	CCGCTTATCT	---	GG	---	CATC	---	TCCCG	ACCGCT	---

631

snaana	---	TACGAAA	TC	---	CG	ATTCCCAATC	GAAATCGAA	---	---	AATCGC	TGACTTAGCT	---
snaere	---	TACGAAA	TC	---	CG	ATTCCCAATC	GAAATCGAA	---	---	AATCGC	TAGCT	---
snagri	GGTTACGAAA	TC	---	TG	AATCCCAATC	GAAATCGAA	---	---	CGC	GAATC	GCT	---
sname1	---	TACGAAA	TC	---	CG	ATTCCCAATC	GAAATCGAA	---	---	AATCGC	TAGTT	---
snamej	GGTTACGAAA	TC	---	TG	AATCCCAATC	GAAATCGAA	---	---	GGGAAACGCGA	ATGCGAATGC	GAATC	GTG
snaper	---	TACGAAA	TCCAAATCCA	AATCCGAATC	GAAATCGAA	---	---	---	---	AATCGC	GAGTCGCACA	---
snapse	---	TACGAAA	TCCAAATCCA	AATCCGAATC	GAAATCGAA	---	---	---	---	AATCGC	AAGTCGCACA	---
snasec	---	TACGAAA	TC	---	CG	ATTCCCAATC	GAAATCGAA	---	---	AATCGC	TAGTT	---
snasim	---	TACGAAA	TC	---	CG	ATTCCCAATC	GAAATCGAA	---	---	AATCGC	TAGTT	---
snavir	GGTTACGAAA	TC	---	TG	AATCCCAATC	GAAATCGAA	---	---	GGGAAACGCGA	ATGCGAATGC	GAATC	GCG
snavil	---	TACGAAA	TC	---	CTGA	AATCCGA	---	---	---	---	---	---
snyak	---	TACGAAA	TC	---	CG	ATTCCCAATC	GAAATCGAA	---	---	AATCGC	TAGCT	---

701

snaana	AGCCC	GACTT	ACTAGGCGAT	GTGTGTGCTG	G----	TACT	AAGATTAAATG	TTGATGCTTT	TTCAATTACA
snaere	----	GACTT	GGCTGGCGAT	GTGTGTGCGA	G----	TACC	AAGATTAAATG	TTGATGCTTT	TTCAATTACA
snagri	GCGCT	GACTT	----	-----	-----	TGCGCTG	GAGAGTTACC	AAGATTAAATG	TTGATGCTTT
sname1	----	GACTT	GGCTGGCGAT	GTGTGTGCGA	G----	TACC	AAGATTAAATG	TTGATGCTTT	TTCAATTACA
snamej	GCGCT	GACTT	-----	-----	-----	TGCGC	GAGAGTTACC	AAGATTAAATG	TTGATGCTTT
snaper	GCGCT	GGC----	-GATGGCAAT	GTGTGTGCGG	-----	-----	GAGAGTTACC	AAGATTAAATG	TTGATGCTTT
snapse	GCGCT	GGC----	-GATGGCAAT	GTGTGTGCGG	-----	-----	GAGAGTTACC	AAGATTAAATG	TTGATGCTTT
snasec	----	GACTT	GGCTGGCGAT	GTGTGTGCGA	G----	TACC	AAGATTAAATG	TTGATGCTTT	TTCAATTACA
snasim	----	GACTT	GGCTGGCGAT	GTGTGTGCGA	G----	TACC	AAGATTAAATG	TTGATGCTTT	TTCAATTACA
snavir	GCGCT	GACTT	-----	-----	-----	TGCGC	GAGAGTTACC	AAGATTAAATG	TTGATGCTTT
snavil	-----	-----	-----	-----	-----	-----	-ACC	AAGATTAAATG	TTGATGCTTT
snayak	----	AACTT	GGCTGGAGAT	GTGTGTGCGA	G----	TACC	AAGATTAAATG	TTGATGCTTT	TTCAATTACA

771

snaana	ACTCT	GGCAG	CATACAAATT	TGGAGTAAAA	--CGTAATCG	CTCGTAATCT	CAGACGTCCT	AAACGACG--
snaere	ACTCT	GGCAG	CATACAAATT	TGGAGTAAAA	--CGTAATCG	CTCGTAATCT	CAGACGTCCT	AAACGACG--
snagri	ACTCT	GGCAG	CATACAAATT	TGGAGTAAAA	--CGTAATCG	-TCGTAATCT	CAGACGTCCT	AAACGACG--
sname1	ACTCT	GGCAG	CATACAAATT	TGGAGTAAAA	--CGTAATCG	CTCGTAATCT	CAGACGTCCT	AAACGACG--
snamej	ACTCT	GGCAG	CATACAAATT	TGGAGTAAAA	--CGTAATCG	-TCGTAATCT	CAGACGTCCT	AAACGACG--
snaper	ACTCT	GGCAG	CATACAAATT	TGGAGTAAAA	--CGTAATCG	GCCGTAATCT	CAGACGTCCT	AAACGACG--
snapse	ACTCT	GGCAG	CATACAAATT	TGGAGTAAAA	--CGTAATCG	GCCGTAATCT	CAGACGTCCT	AAACGACG--
snasec	ACTCT	GGCAG	CATACAAATT	TGGAGTAAAA	--CGTAATCG	CTCGTAATCT	CAGACGTCCT	AAACGACG--
snasim	ACTCT	GGCAG	CATACAAATT	TGGAGTAAAA	--CGTAATCG	CTCGTAATCT	CAGACGTCCT	AAACGACG--
snavir	ACTCT	GGCAG	CATACAAATT	TGGAGTAAAA	--CGTAATCG	-TCGTAATCT	CAGACGTCCT	AAACGACG--
snavil	ACT	-----	G	CATACAAATT	TGGAGTAAAA	TTTCGTAATCG	GTTCGTAATCT	CAAACGTCCT
snayak	ACTCT	GGCAG	CATACAAATT	TGGAGTAAAA	--CGTAATCG	CTAGTAATCT	CAGACGTCCT	AAACGACG--

841

snaana	-----	-----	-----	A	CTCGGTCCAC	GATTCCTAC	---ACTCCAT	A--TAG----
snaere	-----	-----	-----	A	CTTGGTCCAC	GATTCCTGCC	CCAGCCCCAT	GCCTGG----
snagri	-----	-----	-----	A	C-----	AACTAC	GACTCCCA	-----
sname1	-----	-----	-----	A	CTTGGTCCAC	GATTTCT	-----	-----
snamej	-----	-----	-----	A	C-----	AAACCAC	GACTCCCA	-----
snaper	-----	-----	-----	G	AACCGACCAC	GACTCCT	-----	-----
snapse	-----	-----	-----	G	AACCGACCAC	GACTCCT	-----	-----
snasec	-----	-----	-----	A	CTTGGTCCAC	GATTCCT	-----	-----
snasim	-----	-----	-----	A	CTTGGTCCAC	GATTCCT	-----	-----
snavir	-----	-----	-----	A	C-----	AAACCAC	GACTCCCA	-----
snavil	GGTACCAACA	ACAGGCACAA	ATAGCAACAA	CAACATCCAC	GATTCCT	-----	-----	-----
snayak	-----	-----	-----	A	CTTGGTCCAC	GATTCCT	-----	-----

911

snaana	-----	AC	TGCTCTTCGTG	TATGTTGTG	-----	-----	-----	-----
snaere	-----	GC	CTCCTCCTCG	ACCTGGCAAC	TCCCTGGCTCC	TCAGCTCCTC	AGCTCCTCGA	CTGCTGGCTT
snagri	-----	-----	CTCAAG	CAACAGCACC	AGCA	-----	-----	-----
sname1	GCTCCTCCTC	CTCCTCCTCG	AACTGGCAAC	TCCCTGGCTCC	TCAGCTCCTC	-----	-----	-----
snamej	-----	CTCCAGCCCG	GCCTAGCCCG	TCCCGGC	-----	-----	-----	-----
snaper	-----	-----	-----	CGAC	TCCT	-----	-----	-----
snapse	-----	-----	-----	CGAC	TCCT	-----	-----	-----
snasec	-----	TC	CTCCTCCTCG	AACTGGCAAC	TCCCTGGCTCC	TCAGCTCCT	-----	-----
snasim	-----	TC	CTCCTCCTCG	AACTGGCAAC	TCCCTGGCTCC	TCAGCTCCT	-----	-----
snavir	-----	-----	-----	CCCGGGCTG	GCCTGGC	-----	-----	-----
snavil	-----	-----	-----	-----	-----	-----	-----	-----
snayak	-----	TC	CTCCTCCTCG	ACCTGGCAAC	TCCCTGGCTCC	TCAGCTCCTC	AGCTCCTCGA	CTGCTGGCTT

981

snaana	--TTC	-CACT	GA----	CTGA	CTGCCTAAGT	GGGTGC	--TG	GCTGTGAAA	ACTTAAAACT	GAAAACTGAA
snaere	--TTC	-CACT	GA----	GTGA	CTGCCTAAGT	GGGTGC	--TA	GCTG	-----	-----
snagri	GGGTGGCTCT	-----	GA----	GTGA	CTGCCTAAGT	GGGTGC	GTG	GCT	-----	-----
sname1	-----	TC	-CACT	GA----	GTGA	CTGCCTAAGT	GGGTGC	-TA	GCTG	-----
snamej	GGCCCCGCTCT	-----	GA----	GTGA	CTGCCTAAGT	GGGTGC	GTG	GCT	-----	-----
snaper	CCTAC	-CACT	GA----	CTGA	CTGCCTAAGT	GGGTGC	-TG	GCTG	-----	-----
snapse	CCTTC	-CACT	GA----	CTGA	CTGCCTAAGT	GGGTGC	-TG	GCTG	-----	-----
snasec	--TTC	-CACT	GA----	GTGA	CTGCCTAAGT	GGGTGC	-TA	GCTG	-----	-----
snasim	--TTC	-CACT	GA----	GTGA	CTGCCTAAGT	GGGTGC	-TA	GCTG	-----	-----
snavir	GCCTC	-----	GA----	GTGA	CTGCCTAAGT	GGGTGC	GTG	GCTG	-----	-----
snavil	-----	GACT	AAAGATGCTGA	CTGCCTAAGT	GGGTGC	GTG	GTG	GCTG	-----	-----
snayak	--TTC	-CACT	GA----	GTGA	CTGCCTAAGT	GGGTGC	-TA	GCTG	-----	-----

1051

snaana	TACTGGATGC	TGGATGCTGG	ATAGTGGATG	CTGGCTGAGA	TGC	-----	CAGAGCTCGG	-ATTGGATT
snaere	TGTTAGATGC	TG	-----	-----	GA	TGC	-----	-ATTGGATT
snagri	-----	-----	-----	-----	-----	-----	-----	-ATTGGATT
snamel	TGTTAGATGC	TG	-----	-----	GA	TGC	-----	-ATTGGATT
snamoj	-----	-----	-----	-----	-----	-----	-----	-ATTGGATT
snaper	CGCTCCGCTC	TGCACCGCTC	CGATCAGCTC	CTCGCATCCA	CTCCACTCCA	CTCCACTCGG	TATTGGATT	-ATTGGATT
snapse	CGCTCCGCTC	TGCACCGCTC	CGATCAGCTC	CTCGAATCCA	CTCCACTCCA	CTCCACTCGG	TATTGGATT	-ATTGGATT
snasec	TGTTAGATGC	TG	-----	-----	GA	TGC	-----	-ATTGGATT
snasim	TGTTAGATGC	TG	-----	-----	GA	TGC	-----	-ATTGGATT
snavir	-----	-----	-----	-----	-----	-----	-----	-ATTGGATT
snavil	CCTGCTACTC	TGAG	-----	-----	-----	-----	GAGCACCTGG	TATTGGATT
snayak	TGTTAGATGC	TG	-----	-----	GA	TGC	-----	-ATTGGATT

1121

snaana	CCTAATGTTT	GTTTTGCATG	AGCTTTTGT	CTT	-----	-CACTGGC-A	TTTTTTCC	-----AT--AC
snaere	CCTAATGTTT	GTTTTGCATG	AGCTTTTGT	CTTGGCTTCT	-----	-CGCTGGC-A	TTTCTTTT	GTGAGT--AC
snagri	CCTAATGTTT	GTTTTGCATG	AGCTTTTGT	TATAGTTTTT	TCTGTG	-----T	TTACCCGTGA	GCCATTAAAA
snamel	CCTAATGTTT	GTTTTGCATG	AGCTTTTGT	CTTGGCTTCT	CCCCTGGC-A	-----	TTTCTTTT	GTGAAT--AC
snamoj	CCTAATGTTA	GTTTTGCATG	AGCTTTTGT	TGT	-----T	GCTGTGGCTG	TTGTTTGTG	-----
snaper	CCTAATGTTT	GTTTTGCATG	AGCTTTTGT	CTTCTTTTCT	-----T	-----	TTTCCATT	-----
snapse	CCTAATGTTT	GTTTTGCATG	AGCTTTTGT	CTTCTTTTCT	-----T	-----	T'TTCCATT	-----
snasec	CCTAATGTTT	GTTTTGCATG	AGCTTTTGT	CTTGGCTTCT	CCCCTGGC-A	-----	TTTCTTTT	GTGAAT--AC
snasim	CCTAATGTTT	GTTTTGCATG	AGCTTTTGT	CTTGGCTTCT	CCCCTGGC-A	-----	TTTCTTTT	GTGAAT--AC
snavir	CCTAATGTTT	GTTTTGCATG	AGCTTTTGT	ATTTGTTTTT	-----G	-----	T'TTTGTT	-----
snavil	CCAAATGTTT	GTTTTGCATG	AGCTTTTGT	CTTTTCTTTT	TTTTGGTTTG	-----	TTTGTTGTT	GACATGCGCC
snayak	CCTAATGTTT	GTTTTGCATG	AGCTTTTGT	CTTGGCTTCT	-CGCTGGCTT	-----	TTTCAATTTT	GTGAAT--AC

1191

snaana	ACTTTCTTAG	GGT	-----	ATA	ACAGGCTT	-----TAGAAGGCT	TCAGTGATAG	AGGGTTTTATA
snaere	CCTTGTTGGA	AGT	-----	AT	GCCAACTTGA	ACAAAAAGTT	-----AAACAA	AGTATATATA
snagri	ATCTCTTAAA	TGG	-----	GTA	TCAGGCTGTT	GTGCAAGTGT	-----AGAT	ATCAGGTATA
snamel	GCTTGTTGAA	AGT	-----	AT	GCCGACTTAA	ACAAAAAGTT	-----CGGT	ACAATATATG
snamoj	-----	-----	-----	-----	-----	-----	-----	-----
snaper	-----	-----	-----	-----	-----	-----	-----	-----
snapse	-----	-----	-----	-----	-----	-----	-----	-----
snasec	CCTTGTTAAA	AGT	-----	AT	GCAGACTTAA	ACAAAAAGTT	-----AGGT	ACAATATATG
snasim	CCTTGTTGAA	AGT	-----	AT	GCAGACTTAA	ACAAAAAGTT	-----AGGT	ACAATATATG
snavir	-----	-----	-----	-----	-----	-----	-----	-----
snavil	GCTTGCTGAT	TGCCTCGGCC	GCCTTGAGTG	ACAAAGTGCA	CCGTGGTGT	TCCTGGTGAC	AAAAGCTACA	AAAAGTATATA
snayak	ACTTGTGGGA	AGT	-----AT	GCCGACTTAA	GCAAAAAAGTT	-----AAGG	-----	-----

1261

snaana	TAA	-----	-----	CG	-----	ATCCC	TTAAAGAAT	-----
snaere	CAG	-----	-----	CACCGGGGTG	GTGCTGTTCT	TATTTATCCG	TGTAAGTATT	-----
snagri	TGGCTTAGCA	TTAACGGAGG	AGTCGATCTA	CCAGATCAG	ATACTGCTTA	TAAAAATTCA	GATTTGTGTA	-----
snamel	AAG	-----	-----	CAGTAAGATA	GT	-----ATCCC	TTTAAGTATT	-----
snamoj	-----	-----	-----	-----	-----	-----	-----	-----
snaper	-----	-----	-----	-----	-----	-----	-----	-----
snapse	-----	-----	-----	-----	-----	-----	-----	-----
snasec	AAG	-----	-----	CAGAAAGATG	GGGATATTCC	TTAGTATCCC	TGTAAGTATT	-----
snasim	AAG	-----	-----	CAGAAAGATG	GGGATATTCC	TTACTATCCC	TGTAAGTATT	-----
snavir	-----	-----	-----	-----	-----	-----	-----	-----
snavil	AAGTTTTCTG	CGGTATCTTA	AAATTTGCT	CAAAGGAACC	ACAGTGATAT	GAAAGATCTT	TGAGAAAATT	-----
snayak	AAG	-----	-----	CACCGATGTG	GTGCTGTTCC	TTAAAAATACC	CGTGGGTATG	-----

1331

snaana	-----CCT	CTAATATAAA	CCTTAAATT	-----	-----	-----	-----AA	-----
snaere	GATGATATGA	-----	TGGTACTG	-----	-----	-----	-----	-----
snagri	TATGACACAC	AAAGTGATGT	GTTTGATCG	CAT	-----	-----	-----ACAC	-----
snamel	GATGATATGA	ATGATATAA	TGATATTA	-----	-----	-----	-----AA	-----
snamoj	-----	-----	-----	-----	-----	-----	-----	-----
snaper	-----	-----	-----	-----	-----	-----	-----	-----
snapse	-----	-----	-----	-----	-----	-----	-----	-----
snasec	GATGACATGA	ATGATATGA	TGATATTG	-----	-----	-----	-----	-----
snasim	GATGACATGA	ATGATATGA	TGATATTG	-----	-----	-----	-----AA	-----
snavir	-----	-----	-----	-----	-----	-----	-----	-----
snavil	TCTAGCCTTT	CGGGAATCCT	TTTGAAGTA	GATTTGGAAT	TTTTTGGGGC	TCACTCGTTG	TAAAAAGTAA	-----
snayak	GATGCTATCA	ATGATATGA	TGGTATGA	-----	-----	-----	-----AA	-----

1401

snaana	G	-----	-----	TATAA	ATGAATTAAA	-----	-----	-----	-----
snaere	-----	-----	-----	AAATATAT	TTAGACTTAA	-----	-----	-----	-----
snagri	AGATCAAGAA	TATTTAAGAT	ATTTGAATAAA	ATTTGATGTT	TTTCTAACTA	ATTAAC TGAT	TTAAATGGCA	-----	-----
sname1	AGTCAAAGAC	TCAACGTTAT	TTAGATTTGA	-----	-----	-----	-----	-----	-----
snamoj	-----	-----	-----	-----	-----	-----	-----	-----	-----
snaper	-----	-----	-----	-----	-----	-----	-----	-----	-----
snapse	-----	-----	-----	-----	-----	-----	-----	-----	-----
snasec	-----	-----	-----	-----	AAA	-----	-----	-----	-----
snasim	AGTCAAAGGC	TAAACGTTAT	GTAGATTTAA	-----	-----	-----	-----	-----	-----
snavir	-----	-----	-----	-----	-----	-----	-----	-----	-----
snawil	GTTC TAAAAA	TGTAGCTTCT	GTCAATCTAG	-----	-----	-----	-----	-----	-----
snayak	AGTCCAAGAC	TCAAAGCTAT	TTAGATTTAA	-----	-----	-----	-----	-----	-----

1471

snaana	-ATTAAATTT	TGAAATATTA	-----	TTCCTCAA	-----	AG	AGTA	TCCCTAGCTC
snaere	-TAGAAATTT	GAATTGGCAA	GGGCTACATC	TTTCGGTA	-----	AG	GGTA	ATCGCTCTTC
snagri	TTTTAATTAT	CAATGTGACA	GTTAGACGTT	ATTTTGAAAT	AAATAGTGTG	CAG	ATTA	TTTACAACGA
sname1	-TAAATTTT	TAAATATGGCT	GAGACAAATT	TGTC TGGT	-----	AG	AGTA	TTCGCTCCTC
snamoj	-----	-----	-----	-----	-----	-----	-----	-----
snaper	-----	-----	-----	-----	-----	-----	-----	-----
snapse	-----	-----	-----	-----	-----	-----	-----	-----
snasec	-TAGCATTTT	TAAATATGCTA	GAGACAAGTT	TGTC TGGG	-----	AG	AGTA	CCCCTTCTTC
snasim	-TATCATTTT	TAAATATGCTT	GAGACAAATT	TGTC TGGG	-----	AG	AGTA	CCCCTTCTTC
snavir	-----	-----	-----	-----	-----	-----	-----	-----
snawil	-TTTTAGTTG	TAAATATATAT	TAACTATAAA	CATCCACGTG	CTAAATAAAA	AAGGCAGATA	TTTTGTCTGT	-----
snayak	-----	TGGAATTTATA	TATTTACATT	TTTCGGAA	-----	AG	GGTA	CCCCTTCTTC

1541

snaana	AGT	-----	-----	-----	ACATA	CCTTTCCATC	TTGTTGTTTG
snaere	GCT	-----	-----	-----	TT	CCAAGACTAA	ACAATCTTTT
snagri	ACTTATGATT	CTGCTGGGAG	CAGGCTATTT	CCGAGTAGAT	GACTTTCTGTC	TAGATCGCTC	TCAGTGGTTG
sname1	GCT	-----	-----	-----	TT	TCAAGACTAA	GCAATCTTTT
snamoj	-----	-----	-----	-----	-----	-----	TTGTTGCTTG
snaper	-----	-----	-----	-----	-----	-----	-----
snapse	-----	-----	-----	-----	-----	-----	-----
snasec	GCT	-----	-----	TT	TCAAGGCTAA	ACAATCTTTT	CTAGTTTTTG
snasim	GCT	-----	-----	TT	TCAAGACTAA	ACAATATTTT	CTAGTTTTTG
snavir	-----	-----	-----	-----	-----	-----	-----
snawil	ACT	-----	A	AAGCGAATTT	TACTCTAATT	CAAATCTTAC	TTAATTCTCT
snayak	GCT	-----	-----	TT	CCAAGACTAA	GCAATCGTTT	CTAGTTTTTG

1611

snaana	-----	TTTGTGCTG	TGTG	-----	ACATG	CGCCGCTTG	C	-----	TGA	TTG
snaere	-----	TTTGGCGCTC	TGTG	-----	ACATG	CGCCGCTCG	C	-----	TGA	TTG
snagri	TGTTTCTCGT	TTTTGTGCTG	TGTG	-----	ACATG	CGCCGCTCA	C	-----	TGA	TTG
sname1	-----	CTTGGCTT	TGTG	-----	ACATG	CGCCGCTCG	C	-----	TGA	TTG
snamoj	-----	CTGCAATTG	TGTG	-----	ACATG	CGCCGCTCA	C	-----	TGA	TTG
snaper	-----	CTG	TGTG	-----	ACATG	CGCCGCTCG	C	-----	TGA	TTG
snapse	-----	CTG	TGTG	-----	ACATG	CGCCGCTCG	C	-----	TGA	TTG
snasec	-----	CTCGCGCTC	TGTG	-----	ACATG	CGCCGCTCG	C	-----	TGA	TTG
snasim	-----	CTTGGCGCTC	TGTG	-----	ACATG	CGCCGCTCG	C	-----	TGA	TTG
snavir	-----	TTGTTATTG	TGTG	-----	ACATG	CGCCGCTCA	C	-----	TGA	TTG
snawil	CCTTAGAAAA	CTTTAAATTA	TGGGATCAA	AGCACATGTT	AGGC GGCCCA	TATATGAGGT	AAATATTTTG	-----	-----	-----
snayak	-----	TTTGGCGCTC	TGTG	-----	ACATG	CGCCGCTCG	C	-----	TGA	TTG

1681

snaana	-CTTGGCCTG	AGCC	TC	-----	-----	-----	CAGCTCC	TC	-----	CTGA
snaere	-CCTGGCCTG	ATC	-----	-----	-----	-----	-----	-----	-----	CTCC
snagri	-CCC GACTTT	GTCTCGATC	-----	-----	-----	-----	CCGATGC	CCGATGCCGA	-----	-----
sname1	-CCTGGCCTG	ATCC	TC	-----	-----	-----	CTGTTCC	TC	-----	CGCA
snamoj	-CCC GACTTT	GTCTT	-----	-----	-----	-----	CCGATCC	C	-----	GTGA
snaper	-CCT	-----	-----	-----	-----	-----	CC	TC	-----	CTCG
snapse	-CCT	-----	-----	-----	-----	-----	CC	TC	-----	CTCG
snasec	-CCTGGCCTG	ATCC	TC	-----	-----	-----	CTGCTCC	TC	-----	CGCA
snasim	-CCTGGCCTG	ATCC	TC	-----	-----	-----	CTGCTCC	TC	-----	CGCA
snavir	-CCC GACTTT	GGCCCGATC	-----	-----	-----	-----	CCGATCC	CGATGCCGA	-----	-----
snawil	-TTAAAATTA	ATCCTATTCA	TTTAATTAA	TATTTACTAT	GTAGTCTACT	TGATAAATTAT	TTTGAATTAA	-----	-----	-----
snayak	-CTTGGCCTG	ATCC	TC	-----	-----	-----	CTGCTCC	TC	-----	CGCA

1751

snaana	TCC	---	---	TCCTGCA	CCTTCTCGTG	CTCCTCCGGA	TGCC	---	---	TCCTG	TCCCCCTCGG
snaere	TGC	---	---	TCCTTCA	GCTCCTC	CTGATCCT	C	---	---	TTCTG	CCCCCTCGT
snagri	TGC	---	---	---	CTTC	---	---	---	---	CTCCG	ATCTCCTT
sname1	TGC	---	---	TCCTTCA	GCTCCTC	CTGATCC	C	---	---	TTCTG	TCCCTCGT
snamej	TGCTCAAAAT	GCTTCCTGG	AGCCTCCGCC	TCCTTCTT	---	---	---	---	---	TTCTG	CTAGCCAT
snaper	TGC	---	---	TGCTGCT	CGTTGTGTC	TTGGTCTTGC	AGTCGCAGTC	GATGCTGCTG	---	TTCTG	TTGTTGTT
snapse	TGC	---	---	TGCTGCT	CGTTGTGTC	TTGGTCTTGC	AGTCGCAGTC	GA	---	TTCTG	TTGTTGTT
snasec	TGC	---	---	TCCTTCA	GCGCTC	CTGATCCT	C	---	---	TTCTG	TCCCTCGT
snasim	TGC	---	---	TCCTTCA	GCGACTC	CTGATCCT	C	---	---	TTCTG	TCCCTCGT
snavir	TCCCGAAA	---	---	TGCTCA	TCCGATC	---	---	---	---	TTCTG	TCCCTCGT
snavil	AATAAAATTA	AATTAATTGT	TTTTATCATA	TACACC AAAA	CCACGGTAAA	TAGTTTCCTT	---	---	---	TTCTG	TTGTCGTT
snyak	TAC	---	---	TCCTTCT	GCTCCTCCT	CTGATCCT	C	---	---	TTCTG	CCCCCTCGT

1821

snaana	CCCCAGTGTG	TTGGCAATTA	CAAAATGCCGC	AACTTGTATC	TTGGCC	---	---	CGCCATCG	ATTTGTATGG	
snaere	---	ATTTG	TTGGCAATTA	CAAAATGCCGC	AGCTTGTATC	TCTGCC	---	GGCCATCG	ATTTGTATGG	
snagri	---	CATG	ACGGCAATTA	CAAAATGCCGC	GACTTGTATC	ATGGCC	---	AGCCATCG	ATTTGTATGG	
sname1	---	ATTTG	TTGGCAATTA	CAAAATGCCGC	AGCTTGTATC	TCTGCC	---	GGCCATCG	ATTTGTATGG	
snamej	---	---	CG	CAGGCAATTA	CAAAATGCTGC	GACTTGTATC	ATGGCC	---	AGCCATCG	ATTTGTATGG
snaper	---	GTGTG	CCAGCAATTA	CAAAATGCCGC	GACTTGTATC	ATGGCC	---	CGCCATCG	ATTTGTATGG	
snapse	---	GTGTG	CCAGCAATTA	CAAAATGCCGC	GACTTGTATC	ATGGCC	---	CGCCATCG	ATTTGTATGG	
snasec	---	ATTTG	TTGGCAATTA	CAAAATGCCGC	AGCTTGTATC	TCTGCC	---	GGCCATCG	ATTTGTATGG	
snasim	---	ATTTG	TTGGCAATTA	CAAAATGCCGC	AGCTTGTATC	TCTGCC	---	GGCCATCG	ATTTGTATGG	
snavir	---	---	G	CCGGCAATTA	CAAAATGCTGC	GACTTGTATC	ATGGCC	---	AGCCATCG	ATTTGTATGG
snavil	---	TTGCTG	TGGCAATTA	CAAAATGCTAA	GACTTGTATC	ATGATCAGCT	ATCGCCATCG	ATTTGTATGG	ATTTGTATGG	
snyak	---	ATTTG	TTGGCAATTA	CAAAATGCCGC	AGCTTGTATC	TCTGCC	---	GGCCATCG	ATTTGTATGG	

1891

snaana	CATGGAATGG	GCTTCGCGAA	TGGGAATCGA	AATCAGAATC	GCATC	---	---	---	---
snaere	CATGGATTGG	GCCGCGT	---	ACTCGA	AATCGGAATC	GCATC	---	---	---
snagri	CAACGA	---	---	---	---	---	---	---	---
sname1	CATGGAATGG	GCCGCGT	---	ACTCGA	AATCGGAATC	GCATC	---	---	---
snamej	CAGCGA	---	---	---	---	---	---	---	---
snaper	CATGGAATTG	G	---	AATCGA	AATCGGAATC	GCATCGCATC	GGATCCCATC	CTATGCCATG	CTATGCCATG
snapse	CATGGAATTG	G	---	AATCGA	AATCGGAATC	GCATCGCATC	GGATCCCATC	CTATGCCATG	CTATGCCATG
snasec	CATGGAATGG	GCCGCGT	---	ACTCGA	AATCGGAATC	GCATC	---	---	---
snasim	CATGGAATGG	GCCGCGT	---	ACTCGA	AATCGGAATC	GCATC	---	---	---
snavir	CAACGA	---	---	---	---	---	---	---	---
snavil	AAAGCAATAG	C	---	ATTTGG	AATTCGAAAC	GCAA	---	---	---
snyak	CATGGAATGG	GCCGCGT	---	ACTCGA	AATCGGAATC	GCATC	---	---	---

1961

snaana	---	CCAGTT	TCAGTTCCAA	TCCAAGACGA	GGCTCG	---	ATGTGGCTTC	CA	---	TCGAT	CGCATCTCGT
snaere	---	CACATT	G	---	GA	GGCTCGGAT	ATGTGGCTTC	CA	---	TCGAT	CGCATCTCGT
snagri	---	---	---	---	---	CTCG	---	---	---	---	---
sname1	---	CACATT	G	---	GA	GGCTCGGAT	ATGTGGCTTC	CA	---	TCGAT	CGCATCTCGT
snamej	---	---	---	---	---	CTCG	---	---	---	---	---
snaper	CCATCCCATC	A	---	GGTGA	GGCTCTCGT	ATGCTGCTTC	CA	---	TCGAT	CGCATCTGGC	
snapse	CCATCCCATC	A	---	GGTGA	GGCTCTCGT	ATGCTGCTTC	CA	---	TCGAT	CGCATCTGGC	
snasec	---	CACATT	G	---	GA	GGCTCGGAT	ATGTGGCTTC	CA	---	TCGAT	CGCATCTCGT
snasim	---	CACATT	G	---	GA	GGCTCGGAT	ATGTGGCTTC	CA	---	TCGAT	CGCATCTCGT
snavir	---	---	---	---	---	CTCG	---	---	---	---	---
snavil	---	ATCGTT	T	---	GG	CATCTCG	---	TTGACTCT	TT	---	TCGAT
snyak	---	CACAGT	G	---	GA	GGCTCGGAT	ATGTGGCTTC	CA	---	TCGAT	CGCATCTCGT

2031

snaana	---	---	---	TTGC	TTTGTCAAT	TGCAATTTGT	TATC	---	---	GCATTG	---
snaere	---	---	---	TTGC	TTTGTCAAT	TGCAATTTGT	TATC	---	---	GCGTTG	---
snagri	---	ACCCGA	TTGAGTCGAC	TGCGGTTC	---	TTTGTCAAT	TGCAATTTGT	TATCTGCTCC	AAAGCTTGGG	---	---
sname1	---	---	---	TTGC	TTTGTCAAT	TGCAATTTGT	TATC	---	---	GCGTTG	---
snamej	---	ACCCGA	TGAGTCGAC	TGCGGTTC	---	TTTGTCAAT	TGCAATTTGT	TATCTGCTCC	---	GCTTCGAG	---
snaper	TTGGCCTCGG	TTGCTGGGTTG	CTGGGTTC	CTTGTCAAAA	TGCAATTTGT	TATC	---	---	---	GTGTTGTT	---
snapse	TTGGCCTCGG	TTGCTGGGTTG	CTGGGTTC	CTTGTCAAAA	TGCAATTTGT	TATC	---	---	---	GTGTTGTT	---
snasec	---	---	---	TTGC	TTTGTCAAT	TGCAATTTGT	TATC	---	---	GCGTTG	---
snasim	---	---	---	TTGC	TTTGTCAAT	TGCAATTTGT	TATC	---	---	GCGTTG	---
snavir	---	TCCCGA	TTGAGTCGAC	TGCGGTTC	---	TTTGTCAAT	TGCAATTTGT	TATCTACTCT	G	CTGCGGAG	---
snavil	---	GCAATTCAG	TTCAATTGCGA	GCTTTTAGCA	TTTGTCAAT	TGCAATTTGT	TATC	---	---	---	---
snyak	---	---	---	TTGC	TTTGTCAAT	TGCAATTTGT	TATC	---	---	GCGTTG	---

2101

snaana	----	----	CCG	GACTAATGGG	TA-GTAGGTT	CCCG-TTCT-	CAGGTGGCAT	TTGGATTI--
snaere	----	----	CCG	GACTAATGGG	GA-GTAAAGTC	CCCG-ATCT-	CAGGTGGCTC	TGGGATC---
snagri	AAGGAGCTCA	AATCTAAGTG	GATCCACTGC	CGTCCAAG--	-CTGTAGTTG	TAGATGGCCT	TTGTTCGTT--	
sname1	----	----	CCG	GACTAATGGG	GA-GTAAAGTC	CCCG-ATCT-	CAGATGGCTC	TGGGATC---
snamej	CTGAGACTCC	AATCCGCATG	GATC--TGAG	CCACAAAGTT	GCTGCCGCTT	CAGGTGGCTC	TACTCGCT--	
snaper	CGGT-----	CGCCCGCCTG	GACTAATGGG	GA-ATAGGGT	ACTGCCACT-	CAGGTGGCTC	TC-----	
snapse	CGGT-----	CGCCCGGCCG	GACTAATGGG	GA-ATAGGGT	ACTGCCGCT-	CAGGTGGCTC	TC-----	
snasec	----	----	CCG	GACTAATGGG	GA-GTAAAGTC	CCCG-ATCT-	CAGGTGGCTC	TGGGATC---
snasim	----	----	CCG	GACTAATGGG	GA-GTAAAGTC	TCCG-ATCT-	CAGGTGGCTC	TGGGATC---
snavir	CAGAGACTTA	AATCCAGTG	GATCCGCG--	--CCACAA	GCTGCAGCTT	CAGGTGGCTC	TAGTTGTTGT	
snavil	----	TC	CACTAATGGG	--ATGAGT-	-CTG-TCCTA	C-----	-----	
snayak	----	----	CCG	GACTAATGGG	GA-GTAAAGTC	CCCG-ATCT-	CAGGTGGCTC	TGGGATC---

2171

snaana	---	GCGGAT	C-----	---	GGAGGA	TT-----	CGA	GGGATTGGG	TT-----	TAGT	CGATCGGCGC
snaere	---	---	---	---	GA	TTCCCGGCGC	---	GGGATTGGCA	TT-----	CAGC	CAA--GCGC
snagri	---	GCTGT	A--TTTGTAG	CTGTGGTCA	TTCAAT-CAA	AGGATTTTCA	TTGTAGCGCC	TGATTTCTG	---	---	---
sname1	---	---	---	---	GA	TTCCCTGCGC	---	GGGATTGGCA	TT-----	CAGC	GAA--GCGT
snamej	---	CTTCTT	CTTGTCTTA	TTGTAGTCA	TTCAATCAAA	AGGATTTGTG	TG-----	---	---	---	---
snaper	---	---	---	---	GA	TTCAATCAAA	AGGATTTGGCA	TG-----	---	CACC	GAA--GCGC
snapse	---	---	---	---	GA	TTCAATCAAA	AGGATTTGGCA	TG-----	---	CACC	GAA--GCGC
snasec	---	---	---	---	GA	TTCCCTGCGC	GGGATTGGCA	TT-----	---	CAGC	CAA--GCGT
snasim	---	---	---	---	GA	TTCCCTGCGC	GGGATTGGCA	TT-----	---	CAGC	CAA--GCGT
snavir	TGTAGTTGTT	CTTGTCTTA	TTGTGGCCA	TTCAAT-CAA	AGGATTTGC-	---	---	---	---	---	---
snavil	---	---	---	GG	TCAATCAAAA	AGGATTTAAA	TC-----	TAGT	C-----	---	---
snayak	---	---	---	GA	TTCCAGGCGC	GGGATTGGCA	TT-----	CAGC	CGA--GCGA	---	---

2241

snaana	ATTGATC--GG	CTGACT----	TTCTGTG-G	TTTCTG--TC	GTTTTGTTTT	CTGGTATTG	GATGCCCTAA
snaere	AAAGATC--GA	CTGACT----	TTTGTG-G	TGGGTGATT	CTTCTGGCTT	CC-----	CTATAA
snagri	GAAGAC--GA	GTGCCCTTTG	TGTGTGTG	TATGTG-TTT	CTGCTGATGG	CT-----	CTACAA
sname1	AAAGATC--GA	CTGACT----	TTTGTG-G	TCTGTGATT	CTTTTGGCTT	CC-----	CTTTAA
snamej	---	---	TG	TGTGTGTGCG	GCGATGGCTC	---	A-----
snaper	AATGAGCTGG	CTGACTCTGA	CTCCAGCG-G	-CTGTGATTG	---	---	CCCTAA
snapse	AATGAGCTGG	CTGACTCTGA	CTCCAGCG-G	-TTGTGATTG	CCT-----	---	CCCTAA
snasec	AAAGATC--GT	CTGACT----	TTTGTG-G	TCTGTGATT	CTTTTGGCTT	CC-----	CTTTAA
snasim	AAAGATC--GT	CTGACT----	TTTGTG-G	TCTGTGATT	CTTTTGGCTT	CC-----	CTTTAA
snavir	--TGATC----	---	GCTCTGTG	TTTGTGTCTT	CTGATGGCTC	---	A-----
snavil	---	CTGACT----	TTATGTG-G	TTGCAAAA	---	---	CCAAAC
snayak	AAAGATC--GA	CTGACT----	TTTGTG-G	TCTGTGATT	CTTTTGGCTT	CC-----	CTTTAA

2311

snaana	GAACTGATTA	GC-----	TTGCC	AGGACAATGC	CAGA-----	---	A	AAGGATGCCG
snaere	GCGGTGATTA	GC-----	CG-C	AGGACAATGG	CAAA-----	---	A	AAGGATGCCG
snagri	---	TGATTA	GCTACGAGAT	TTGCCGCGGC	AGGACAATGG	CAAG--CAAG	AGCCGGGCAA	AAGGATGCCG
sname1	GCGGTGATTA	GC-----	CG-C	AGGACAATGG	CAAA-----	---	A	AAGGATGCCG
snamej	GCAATGATTA	GCTACGAGTT	CTGCCGCGGC	AGGACAATGG	CAAGCCTGCA	GCCTGGCAAA	AAGGATGCCG	
snaper	GACCTGATTA	-T-----	GGCC	AGGACAATGG	GCGAGC-----	---	CA	AAGGATGCCG
snapse	GACCTGATTA	-T-----	GGCC	AGGACAATGG	GCGAGC-----	---	CA	AAGGATGCCG
snasec	GCGGTGATTA	GC-----	CG-C	AGGACAATGG	CAAA-----	---	A	AAGGATGCCG
snasim	GCGGTGATTA	GC-----	CG-C	AGGACAATGG	CAAA-----	---	A	AAGGATGCCG
snavir	GCACTGATTA	GCTACGAGTT	TTGCCGCGGC	AGGACAATGG	CAAG--CCAA	AGCCTAGCAA	AAGGATGCCG	
snavil	GAAATCTTTG	GC-----	---	---	AA-----	---	A	AGAGATGCCG
snayak	GCGGTGATTA	GC-----	CG-C	AGGACAATGG	CAAA-----	---	A	AAGGATGCCG

2381

snaana	C-----	TGCA-----	ACA	ATGGTTCGGC	AAAGATCA-----	---	C--AG	CCGGCT-----
snaere	C-----	AGAA-----	ACA	AAGG-GCGGA	AGACTTCA-----	---	CAGAAG	TCGGTC-----
snagri	C-----	AAACAA	TAAGCAACA	AAGG--CGGC	ACAGATCACA	CGGACAGAAG	CCAA-----	
sname1	C-----	AGAA-----	ACA	AAGG-GCGGA	AGACTTCA-----	---	CAGAAG	TCGGTC-----
snamej	C-----	AAACAA	TAAGCAACA	CAAAGGCGGC	ACAGATCATA	CGGCCAGAAG	CCAA-----	
snaper	C-----	GGGA-----	ACA	ATAG-GCGGC	ACAGATCA-----	---	CAGGAG	CTGGCCAAAC
snapse	C-----	GGCA-----	ACA	ATAG-GCGGC	ACAGATCA-----	---	CAGGAG	CTGGCCAAAC
snasec	C-----	AGAA-----	ACA	AAGG-GCGGA	AGACTTCA-----	---	CAGAAG	TCGGTC-----
snasim	C-----	AGAA-----	ACA	AAGG-GCGGA	AGACTTCA-----	---	CAGAAG	TCGGTC-----
snavir	C-----	AAACAA	TGCGACAACA	AAGG--CGGC	ACAGATCATA	CGGCCAGAAG	CCAA-----	
snavil	CCGCTTCTGT	TGAAAAGAA	GAAGAATACA	AAGGTCGGT	A-AGATCA-----	---	GAGAA	---
snayak	C-----	AGAA-----	ACA	AAGG-GCGGA	AGACTTCA-----	---	CAGAAG	TCGGTC-----

2801

snaana	-----	-----	-----	-----	-----	-----	-----
snaere	-----	-----	-----	-----	-----	-----	-----
snagri	-----	-----	-----	-----	-----	-----	-----
snaamel	-----	-----	-----	-----	-----	-----	-----
snaamaj	TTTGATAAAAT	ATATTTAAGG	TTCCTAAGCC	TTATAGAAAT	TCAGAAACTT	ATAGACTTAT	CTCCTATATA
snaper	-----	-----	-----	-----	-----	-----	-----
snapse	-----	-----	-----	-----	-----	-----	-----
snasec	-----	-----	-----	-----	-----	-----	-----
snaasim	-----	-----	-----	-----	-----	-----	-----
snavir	-----	-----	-----	-----	-----	-----	-----
snaawil	-----	-----	-----	-----	-----	-----	-----
snaayak	-----	-----	-----	-----	-----	-----	-----

2871

snaana	-----	-----	-----	-----	-----	-----	TGG
snaere	-----	-----	-----	-----	-----	-----	TGG
snagri	-----	-----	-----	-----	-----	-----	TGG
snaamel	-----	-----	-----	-----	-----	-----	TAG
snaamaj	AGATTTTTTCT	ATTCCATTCT	TTTTATTAAAT	ATTAAATATT	TAAATAATTTT	ATATAGAGAA	TTATTATTTC
snaper	-----	-----	-----	-----	-----	-----	TGA
snapse	-----	-----	-----	-----	-----	-----	TGA
snasec	-----	-----	-----	-----	-----	-----	TGG
snaasim	-----	-----	-----	-----	-----	-----	TGG
snavir	-----	-----	-----	-----	-----	AAA	GTA
snaawil	-----	-----	-----	-----	-----	-----	TATTGAG
snaayak	-----	-----	-----	-----	-----	-----	TGG

2941

snaana	CTT	-----	-----	-----	-----	-----	-----
snaere	ACT	-----	-----	-----	-----	-----	-----
snagri	CTTATAGAGT	TCCAATTTCC	TCAATTTTCC	CTATTAAAGT	TGACATTTCT	TTAAGTGTAT	C
snaamel	C	-----	-----	-----	-----	-----	-----
snaamaj	TTTTTATAGA	AGATGTTTAT	ACATTTATAT	ACAATCTAAA	TATATATTAA	GAATATAGCT	CATCTTCTAC
snaper	CTT	-----	-----	-----	-----	-----	-----
snapse	CTT	-----	-----	-----	-----	-----	-----
snasec	ACT	-----	-----	-----	-----	-----	-----
snaasim	ACT	-----	-----	-----	-----	-----	-----
snavir	CATACAAATCT	ACATATATTT	ATATAAGGAA	GAGCCACATT	TCTTAAGATT	TTAGACTTGT	GTATACATTT
snaawil	TTT	-----	-----	-----	-----	-----	-----
snaayak	ACT	-----	-----	-----	-----	-----	-----

3011

snaana	-----	CAAACCTCT	GG	-----	CAAT	GTCCCTCCCTG	-----
snaere	-----	CTTTCT-T	GC	-----	CAAT	GTCCATCCC-G	-----
snagri	-----	CCTGCTCT	GCTTGAAACT	GAAACTGACT	TATGTGCATT	GTCCATGC	-----
snaamel	-----	-----	-----	-----	CAAT	GTCCACCC-G	-----
snaamaj	AAGTGCAACT	CCCCATTTTT	TCCCAGTGA	TCTCCTAGGG	CTGACTTCTT	GGCCTTCCCTG	TGTGCCAAAA
snaper	-----	C	C	-----	CAAT	GTCTGGCC-C	-----
snapse	-----	C	C	-----	CAAT	GTCTGGCC-C	-----
snasec	-----	CGTTCT-A	GC	-----	CAAT	GTCAACCC-G	-----
snaasim	-----	CGTTCT-A	GC	-----	CAAT	GTCAACCC-G	-----
snavir	TTTTTCAGTGT	ATCATGCTAT	GCTTAAATCA	GAAACTGACT	TCTGTGCATT	GGCCGT-G	TGCT-AA
snaawil	-----	-----	CAAACAAAA	AAAAAAAAAAA	AGTAGAAATT	TTCAAAGT	-AG-AA
snaayak	-----	CGTTCC-T	GC	-----	CAAT	GTCCATCCC-G	-----

3081

snaana	-----	GC	AAGGTGT	TT-CCTCTCA	GC-TGAT-T	CTTT	-----	GTGAA	CTGCCACATC
snaere	-----	GC	AAGGTGT	TTTCCTTACA	GC-TGAT-G	CAAT	-----	GTGGC	CAGTTGCATC
snagri	-----	GCTA	AAGGTATGTG	TTTTCTCATA	GCCTACTCC	CGTT	-----	GTCCC	ATAGAACAAC
snaamel	-----	GC	AAGGTGT	TTTCCTTACA	GC-TGAT-G	CAAT	-----	GTGAC	CAGTTGCATC
snaamaj	AGGTATGC	-----	AAGGTGT	TTTTCTCACA	GCCTG	C	CGTTCAATGC	CTGCAGTTTT	CTACTATATT
snaper	-----	GC	AAGGTGT	TT-CCTCCCA	GC-TGAT-T	CGTT	-----	GCGAC	CAGTTCTA
snapse	-----	GC	AAGGTGT	TT-CCTCCCA	GC-TGAT-T	CGTT	-----	GCGAC	CAGTTCTA
snasec	-----	GC	AAGGTGT	TTGCCCTTACA	GC-TGAT-G	CAAT	-----	GTGAG	CAGTTGCATC
snaasim	-----	GC	AAGGTGT	TTTCCTTACA	GC-TGAT-G	CAAT	-----	GTGAG	CAGTTGCATC
snavir	AGGTGCGC	-----	AAGGTGT	TTTCC	CA	TTCTGTC	C	TTCTG	CTGCAGT-TT
snaawil	AAGGTAGC	-----	AAGGTGT	TTTTTC	CA	CTTTTCAT	-TTT	-----	GCAAA
snaayak	-----	GC	AAGGTGT	TCTCCTTACA	GC-TGAT-G	CAAT	-----	GTAGC	TAGTTGCATC

3151

snaana	TGCACTGCTT	TTTTCTTCTT	ATTTTTTTTCG	CAATTGCACA	AGAAACGGCG	TCTGATTACC	AAGGAACTAG
snaere	TGGGCTGCG	-----	-AGTTTTTTT	CAATTGCACA	AGAAACGGCG	TCTGATTACC	GAAG-----
snagri	CTTCTTCC	-----	-----TTTTTTC	CAATTGCACA	AGCGACGTGC	TCTGATTACC	GCGAAAAGGA
sname1	TGTGCTGC	-----	-AGTTTTTTT	CAATTGCACA	AGAAACGGCG	TCTGATTACC	GTAG-----
snamej	CTTGGCCC	-----	TTTTTTTTTTC	CAGTTACACA	AGCGACGGCG	TCTGATTACC	GCGAAAAGAA
snaper	-----	-----	GTTTTTTTTT	CAATTGCACA	AGAGACGGCG	TCTGATTACC	AAGG-----
snapse	-----	-----	G-----TTTTTTT	CAATTGCACA	AGAGACGGCG	TCTGATTACC	AAGG-----
snasec	TGTGCTGC	-----	-AGTTTTTTT	CAATTGCACA	AGAAACGGCG	TCTGATTACC	GTAG-----
snasim	TGTGCTGC	-----	-AGTTTTTTT	CAATTGCACA	AGAAACGGCG	TCTGATTACC	GTAG-----
snavir	TCTACTATT	-----	TTTTTTTTTTC	CAATTGCACA	AGCGACGGCG	TCTGATTACC	GCGAAAATAA
snawil	-----	-----	-CATTTTTTTT	TGCTTAAAAA	CTATGCGGTC	TTTTTATTGTT	ACAG-----
snayak	TGGGCTGCG	-----	-AGTTTTTTT	CAGTTGCACA	AGAAACGGCG	TCTGATTACC	GTAG-----

3221

snaana	AACTAAAACT	GGAACTGAAA	CTGGAATGAT	TGGCCATTG	TT-----	---TGGACCC	GGGT-TCCTT
snaere	-----	AA	CTGGAATGAT	TGGCTTTTG	TC-----	---TGCAC	-GGT-TCCTT
snagri	AAGAGAAAAA	ATAGT---	AC AAGACATTAT	TGTCCTTTG	TTTGGGTGAT	TTTGTGTGCCA	AGGTGTAGTT
sname1	-----	AA	CTGGAATGAT	TGGTCATTG	TC-----	---TGCATT	-GGT-TCCTT
snamej	GAAAAGAGTG	T-----	AC TGAATAATGAT	TGTCCCTTG	TT-----	---GTGGCTA	AAAGTGTGTT
snaper	-----	AA	GTGAAATTTAT	TGTCCATTG	TT-----	---CCGCCC	-GAA-ACCTT
snapse	-----	AA	GTGAAATTTAT	TGTCCATTG	TT-----	---CCGCCC	-GAA-ACCTT
snasec	-----	AA	CTGGAATGAT	TGGTCATTG	TC-----	---TGCATT	-GGT-TCCTT
snasim	-----	AA	CTGGAATGAT	TGGTCATTG	TC-----	---TGCATT	-GGT-TCCTT
snavir	GAAAAGAAAAAT	AGT-----	AC TAAAAATGAT	TGTCCCTTG	TTTGGGTGAA	TTGTGTGTGCCA	AGGTGTAGTT
snawil	-----	-----	-----	-----	-----	---TGTGCC	-----
snayak	-----	AA	CTGGAATGAT	TGGCCTTTG	TC-----	---TGCAC	-GGT-TCCTT

3291

snaana	CTAGGAATTG	TTTGTGTGTT	TTGTAGGGTG	TCTTATTTAT	GGGGTAAAGG	TGTTGCTTTT	GCTGCAAAAT
snaere	TTGGGAATG	-----G	ATGTGAGC	-CCTATTTAT	GGCCAAAAGG	TGTTGCAACT	GCAACATAAT
snagri	CTAGGAATG	---GATTTT	TAGTGTGT	---TATTTAT	GGCCGAAAGG	TGTTGCCATT	GCTGCAAAAT
sname1	CTGGGAATG	---GATTT	TTGTGAGC	---CTTATTTAT	GACCAAAAGG	TGTTGCAACT	GCAACATAAT
snamej	CTCGGAATG	---CGTTCT	TATGAGT	---ATGATTTAT	GGCCGAAAGG	TGTTGCCAAT	GCTGCAAAAT
snaper	CCAGGAATGG	TC---CGCTTT	TTGTGGGCTG	TCTTATTTAT	GGTCAAAAGG	TGTTGC	-----T
snapse	CCAGGAATGG	TC---CGCTTT	TTGTGGGCTG	TCTTATTTAT	GGTCAAAAGG	TGTTGC	-----T
snasec	CTGGGAATG	---GATTG	TTGTGAGT	---CTTATTTAT	GGCCAAAAGG	TGTTGCAACT	GCAACATAAT
snasim	CTGGGAATG	---GATTG	TTGTGAGC	---CTTATTTAT	GGCCAAAAGG	TGTTGCAACT	GCAACATAAT
snavir	CTAGGAATG	---CGTTTT	TATTAATGT	---TTTATTTAT	GGCCGAAAGG	TGTTGCCATC	GCGCCAAAAT
snawil	-----	-----	ATGTAGGT	---GGTGTGTGT	GGCCTAAAGG	TGTTTCA	-----GAAAT
snayak	A-GGAAATG	---CGTTT	TTGTGTG	---CTTTTTTAT	GGCCAAAAGG	TGTTGCAACT	GCAACATAAT

3361

snaana	CTTGCTTAATG	AAAG---CAT	-----TTTCG	GTACACCCAC	AC-----TTTT	TTTTCGTTTTT	CG--GGATAA
snaere	GTCGCCATATG	CTTCTCCAC	-----TCC	ACACACCCGC	ATTCAATGAT	TTATGTTTTG	AG---GTTTC
snagri	GTCACCTAATG	TGTTTGTGAC	-----TATA	-----CAAA	ATACATTACT	CGTAGATTGT	CG--CCGTG
sname1	GTCGCTAATG	CTTGTCCCAT	-----TCCG	ACACACCCGC	ATTGATTAT	TTATGTTTTT	AG--AGTCAG
snamej	GACACTAATA	TGAGACCCCT	AGGGAAATCT	ATCTGCCCTCA	GTTTAGTTTT	CTATGGTATT	GGCTGGTAGT
snaper	GTCGCTAATG	GTTGATCAT	-----TGGG	-----ATCCAC	ATACGAT	-----	-----
snapse	GTCGCTAATG	GTTGATCAT	-----TGGG	-----ATCCAC	ATACGAT	-----	-----
snasec	GTCGCTAATG	CTTGTCCCT	-----TCCG	ACACACCCGC	ATGTGATTAT	TTATGTTTTA	AA--GTCAC
snasim	GTCGCTAATG	CTTGTCCCAT	-----TCCG	ACACACCCGC	ATTCGATTAT	TTATGTTTTA	AA--GTCAC
snavir	GTCACCTAATG	TTGTG	-----TACCCAA	CGGAATGCCT	-----TCCT	TTACTTTTTA	CGCTGGCAG
snawil	CTCACTAATC	GATG	-----	-----	-----	TTATTTTTTA	AG-----
snayak	GTTGCTTAT	-----	-----TTCA	GCACACCCGC	ATTCAATTAT	TTATGTTTTG	AA--GTCAC

3431

snaana	AAACT	-GACTCTAGC	TCTGAOTCTG	A-----GGAG	T-----	-----	-----
snaere	ACATTTTACG	GAACTCCCTT	TATCAATGGA	A-----ATAC	T-----	-----	-----
snagri	GCAGTTGCTG	CTAATCTCTG	AAAGGACGTG	A-----CTGAAA	C-----	-----	-----
sname1	ACATT-TACG	GGAATTCCCT	AAATAATAAA	A-----GAA	T-----	-----	-----
snamej	TAATATCGCA	GAG	-AGAACGTG	A-----CTGTAA	C-----	-----	-----
snaper	-----	-----	CCACTGGG	A-----	-----	-----	-----
snapse	-----	-----	CCACTGGG	A-----	-----	-----	-----
snasec	ACA-----	TCCCTT	TAAATAATAA	A-----GAA	T-----	-----	-----
snasim	ACA-----	TCCCTT	TAAATAATAA	A-----GAA	T-----	-----	-----
snavir	TTGCAGTTGT	AATCTGCCAG	AAGAAACGTG	ACTGGTGGAA	C-----	-----	-----
snawil	-----	-----	-----	-----	-----	-----	-----
snayak	ACATTTTACG	GAATCCTTTT	TATACCCGT	ACTCGTAGAG	TAAAAGGGTA	TACTAGATT	GTTGAAAAGT

3501

snaana	-----	-----	-----	-----	-----	-----	
snaere	-----	-----	-----	-----	-----	-----	
snagri	-----	-----	-----	-----	-----	-----	
sname1	-----	-----	-----	-----	-----	-----	
snamej	-----	-----	-----	-----	-----	-----	
snaper	-----	-----	-----	-----	-----	-----	
snapse	-----	-----	-----	-----	-----	-----	
snasec	-----	-----	-----	-----	-----	-----	
snasim	-----	-----	-----	-----	-----	-----	
snavir	-----	-----	-----	-----	-----	-----	
snawil	-----	-----	-----	-----	-----	-----	
snayak	ATGTAACAGG	CAGAAAGGAA	CGTTTCCGAC	CATATAAAGT	ATATATATTC	TTGATCAGGA	TCAGTAGCCG

3571

snaana	-----	-----	-----	-----	-----	-----	
snaere	-----	-----	-----	-----	-----	-----	
snagri	-----	-----	-----	-----	-----	-----	
sname1	-----	-----	-----	-----	-----	-----	
snamej	-----	-----	-----	-----	-----	-----	
snaper	-----	-----	-----	-----	-----	-----	
snapse	-----	-----	-----	-----	-----	-----	
snasec	-----	-----	-----	-----	-----	-----	
snasim	-----	-----	-----	-----	-----	-----	
snavir	-----	-----	-----	-----	-----	-----	
snawil	-----	-----	-----	-----	-----	-----	
snayak	AGTCGATCTG	GCCATGTCCG	TCGTGTCGTC	CGTCTGTCTG	TCCGTCTGTC	CGTCTGTCCG	TCGTGTCGTA

3641

snaana	-----	-----	-----	-----	-----	-----	
snaere	-----	-----	-----	-----	-----	-----	
snagri	-----	-----	-----	-----	-----	-----	
sname1	-----	-----	-----	-----	-----	-----	
snamej	-----	-----	-----	-----	-----	-----	
snaper	-----	-----	-----	-----	-----	-----	
snapse	-----	-----	-----	-----	-----	-----	
snasec	-----	-----	-----	-----	-----	-----	
snasim	-----	-----	-----	-----	-----	-----	
snavir	-----	-----	-----	-----	-----	-----	
snawil	-----	-----	-----	-----	-----	-----	
snayak	TGAACGTCGA	GATCTCAGGA	ACTACAAAAG	CTAGAAAAGT	GAGATTAAAGT	ATACAGACTC	CAGGGACATA

3711

snaana	-----	-----	-----	-----	-----	-----	
snaere	-----	-----	-----	-----	-----	-----	
snagri	-----	-----	-----	-----	-----	-----	
sname1	-----	-----	-----	-----	-----	-----	
snamej	-----	-----	-----	-----	-----	-----	
snaper	-----	-----	-----	-----	-----	-----	
snapse	-----	-----	-----	-----	-----	-----	
snasec	-----	-----	-----	-----	-----	-----	
snasim	-----	-----	-----	-----	-----	-----	
snavir	-----	-----	-----	-----	-----	-----	
snawil	-----	-----	-----	-----	-----	-----	
snayak	GACGCAGCGC	AAGTTTGTCG	ATTCAGGTTC	CCACGCCCCAC	TCTAACGCCCC	ACAAACGGCC	CAAAACTGCC

3781

snaana	-----	-----	-----	-----	-----	-----	
snaere	-----	-----	-----	-----	-----	-----	
snagri	-----	-----	-----	-----	-----	-----	
sname1	-----	-----	-----	-----	-----	-----	
snamej	-----	-----	-----	-----	-----	-----	
snaper	-----	-----	-----	-----	-----	-----	
snapse	-----	-----	-----	-----	-----	-----	
snasec	-----	-----	-----	-----	-----	-----	
snasim	-----	-----	-----	-----	-----	-----	
snavir	-----	-----	-----	-----	-----	-----	
snawil	-----	-----	-----	-----	-----	-----	
snayak	ACGCCACAT	TTTTGAAAAA	TGTTTAAATA	TTTTTTCATT	TTTGTAATTGG	TCTTGTAAGT	TTCTATCGAT

3851

snaana	-----	-----	-----	-----	-----	-----	-----
snaere	-----	-----	-----	-----	-----	-----	-----
snagri	-----	-----	-----	-----	-----	-----	-----
sname1	-----	-----	-----	-----	-----	-----	-----
snamej	-----	-----	-----	-----	-----	-----	-----
snaper	-----	-----	-----	-----	-----	-----	-----
snapse	-----	-----	-----	-----	-----	-----	-----
snasec	-----	-----	-----	-----	-----	-----	-----
snasim	-----	-----	-----	-----	-----	-----	-----
snavir	-----	-----	-----	-----	-----	-----	-----
snawil	-----	-----	-----	-----	-----	-----	-----
snayak	TTGCAAAAAA	ACATTTTGCC	ACGCCCACTC	TAAAGCCAC	AAACCGCCCA	AAGCTGTCAC	GCCCACACTT

3921

snaana	-----	-----	-----	-----	CTGTGAATCT	TCATTTACTG	ACAAA	-----	C	
snaere	-----	-----	-----	-----	CGTTTAAATGT	TA	TTTG	GCTAA	-----	T
snagri	-----	-----	-----	-----	CTGTATATTG	TT	ACIT	TCCIT	-----	TT
sname1	-----	-----	-----	-----	CGTTTAAATGT	TT	ATTG	GCAAA	-----	TC
snamej	-----	-----	-----	-----	CTGCATGTGA	TA	GG	GCA	-----	-----
snaper	-----	-----	-----	-----	-----	-----	-----	-----	-----	C
snapse	-----	-----	-----	-----	-----	-----	-----	-----	-----	C
snasec	-----	-----	-----	-----	CTTTTAAATGT	TT	ATTG	GCGAA	-----	TC
snasim	-----	-----	-----	-----	CTTTTAAATGT	TT	ATTG	GCAAA	-----	TC
snavir	-----	-----	-----	-----	CTGTGTATGG	TT	-----	GGGTT	-----	-----
snawil	-----	-----	-----	-----	-----	AAATAT	TA	-----	-----	-----
snayak	TTGAAAAAATG	TTTIGATATT	TTTTCATTTT	TGTAATTGGTC	TTGTAAAATTT	CTATCGATTT	GCCAACAAAC	-----	-----	-----

3991

snaana	TCTTAGCT	-----	TAT	ATTTCG	-----	-----	-----	-----	-----
snaere	CTCTAAGT	ACTTATTTCT	AT	-----	-----	-----	-----	-----	-----
snagri	TCTTATCAAA	ATCTACACAC	GCACACA	-----	-----	-----	-----	-----	-----
sname1	TTACAACT	ACTGAATTGT	ATCAGTG	-----	-----	-----	-----	-----	-----
snamej	CAITTTGCT	-----	TATCAA	-----	-----	-----	-----	-----	-----
snaper	TCGTAACC	-----	-----	-----	-----	-----	-----	-----	-----
snapse	TCGTAACC	-----	-----	-----	-----	-----	-----	-----	-----
snasec	TTGTAGCT	ACTGAATTGT	ATCTGTA	-----	-----	-----	-----	-----	-----
snasim	TTATAACT	ACTGAATTGT	ATCTGTA	-----	-----	-----	-----	-----	-----
snavir	CCACTTCT	-----	ATCAATA	-----	-----	-----	-----	-----	-----
snawil	CGTGAAT	-----	-----	-----	-----	-----	-----	-----	-----
snayak	TTTTTGGCCAG	GCCCCACTCTA	ACGCCCAACAA	ACCGCCCAAA	GCTGTACGC	CCACACTTTT	GAAAAATGTT	-----	-----

4061

snaana	-----	-----	-----	-----	-----	-----	-----	-----	-----
snaere	-----	-----	-----	-----	-----	-----	-----	-----	-----
snagri	-----	-----	-----	-----	-----	-----	-----	-----	-----
sname1	-----	-----	-----	-----	-----	-----	-----	-----	-----
snamej	-----	-----	-----	-----	-----	-----	-----	-----	-----
snaper	-----	-----	-----	-----	-----	-----	-----	-----	-----
snapse	-----	-----	-----	-----	-----	-----	-----	-----	-----
snasec	-----	-----	-----	-----	-----	-----	-----	-----	-----
snasim	-----	-----	-----	-----	-----	-----	-----	-----	-----
snavir	-----	-----	-----	-----	-----	-----	-----	-----	-----
snawil	-----	-----	-----	-----	-----	-----	-----	-----	-----
snayak	TTGATATTTT	TTCATTTTTG	TATTTGGTCT	GTAAACTTCT	ATCGATTTGC	CAAAAACTT	TTGGCCACGC	-----	-----

4131

snaana	-----	-----	-----	-----	-----	-----	-----	-----	-----
snaere	-----	-----	-----	-----	-----	-----	-----	-----	-----
snagri	-----	-----	-----	-----	-----	-----	-----	-----	-----
sname1	-----	-----	-----	-----	-----	-----	-----	-----	-----
snamej	-----	-----	-----	-----	-----	-----	-----	-----	-----
snaper	-----	-----	-----	-----	-----	-----	-----	-----	-----
snapse	-----	-----	-----	-----	-----	-----	-----	-----	-----
snasec	-----	-----	-----	-----	-----	-----	-----	-----	-----
snasim	-----	-----	-----	-----	-----	-----	-----	-----	-----
snavir	-----	-----	-----	-----	-----	-----	-----	-----	-----
snawil	-----	-----	-----	-----	-----	-----	-----	-----	-----
snayak	CCACTATAAC	GCCTACAAAC	CAGCAAAAAAC	TGTGTTTAAG	ACTCTCCTTC	TCCCTTCCAC	TAGCTGAGTA	-----	-----

4201

snaana	-----	-----	-----	-----	-----	-----
snaere	-----	-----	-----	-----	-----	-----
snagri	-----	-----	-----	-----	-----	-----
sname1	-----	-----	-----	-----	-----	-----
snamej	-----	-----	-----	-----	-----	-----
snaper	-----	-----	-----	-----	-----	-----
snapse	-----	-----	-----	-----	-----	-----
snasec	-----	-----	-----	-----	-----	-----
snasim	-----	-----	-----	-----	-----	-----
snavir	-----	-----	-----	-----	-----	-----
snawil	-----	-----	-----	-----	-----	-----
snayak	ACGGGTATCA	GATAGTCGGG	GAACTCGACT	ATAGCGTTCT	CTCTTGTTGT	TATTGAAAAAT

4271

snaana	-----	-----	-----	A	-----	-----	-----	-----
snaere	-----	-----	-----	A	-----	-----	-----	-----
snagri	-----	-----	-----	A	-----	-----	-----	-----
sname1	-----	-----	-----	A	-----	-----	-----	-----
snamej	-----	-----	-----	C	-----	-----	-----	-----
snaper	-----	-----	-----	-----	-----	-----	-----	-----
snapse	-----	-----	-----	-----	-----	-----	-----	-----
snasec	-----	-----	-----	A	-----	-----	-----	-----
snasim	-----	-----	-----	A	-----	-----	-----	-----
snavir	-----	-----	-----	C	-----	-----	-----	-----
snawil	-----	-----	-----	-----	-----	-----	-----	-----
snayak	AAATAAATAT	AAAACTGAAG	CTTATGACCA	AAATTCCTAT	ACTTTAATTA	TTTAAAAACAT	GGCTATTAAC	GGCTATTAAC

4341

snaana	A	-----	-----	-----	-----	-----	-----	-----
snaere	G	-----	-----	-----	-----	-----	-----	-----
snagri	A	-----	-----	-----	-----	-----	-----	-----
sname1	AAATTGAATC	CAAATACCCA	CTCACCTTGC	CTTGATAACC	ATACGTGCCT	AA	-----	-----
snamej	A	-----	-----	-----	-----	-----	-----	-----
snaper	-----	-----	-----	-----	-----	-----	-----	-----
snapse	-----	-----	-----	-----	-----	-----	-----	-----
snasec	AAATTGAATC	CAAATACCCA	CTCACCTTGC	CTTGATAACC	ATACGTGCCT	AA	-----	-----
snasim	AAATTGAATC	CAAATACCCA	CTCACCTTGC	CTTGATAACC	ATACGTGCCT	AA	-----	-----
snavir	A	-----	-----	-----	-----	-----	-----	-----
snawil	A	-----	-----	-----	-----	-----	-----	-----
snayak	A	-----	-----	-----	-----	-----	-----	-----

4411

snaana	-----	-----	-----	-----	-----	-----	-----	-----
snaere	CCATCCATAT	CACGGACTAT	TGGCCGTATG	CAGGTATGAG	C	-----	-----	-----
snagri	TAAAAATGTAC	GATTGATAAG	AGGCCCCAGC	GCCAT	-----	-----	-----	-----
sname1	CCACCCATAT	CTTGGATT	ATTCCTCATA	CTTGT	-----	-----	-----	-----
snamej	TGAAATGTGC	C-CAGATAAG	AGCCAGAGCG	CCTAT	-----	-----	-----	-----
snaper	-----	-----	-----	-----	-----	-----	-----	-----
snapse	-----	-----	-----	-----	-----	-----	-----	-----
snasec	CCACCCATAT	CTTGGATT	ATGCCTCATA	CCTGT	-----	-----	-----	-----
snasim	CCACCCGTAT	CTTGGATT	ATGCCTCATA	CCTGT	-----	-----	-----	-----
snavir	GCCCAGATA	-----	-----	-----	-----	-----	-----	-----
snawil	-----	-----	-----	-----	-----	-----	-----	-----
snayak	TTCTCCATAT	CTTAGATT	ATGCCTCATA	CCTAT	-----	-----	-----	-----

4481

snaana	CAGCTCTGAT	CAAATACT	-----	GCCAC	AAGATAAGCC	-----	-----	-----
snaere	-----	CTAAT	CAAATAGT	-----	CAGATAAACC	-----	-----	-----
snagri	ATGGCCTAAA	TGGACAAC	-----	-----	AAACT	-----	-----	-----
sname1	CGGGTCTAAT	CAAATAGT	-----	-----	CAGATAAACC	-----	-----	-----
snamej	ATGGCCTAAA	TGCACTAG	-----	-----	AAACT	-----	-----	-----
snaper	CGGCTCTAAT	CAAACACCC	-----	-----	CAGATAAACC	-----	-----	-----
snapse	CGGCTCTAAT	CAAACACCC	-----	-----	CAGATAAACC	-----	-----	-----
snasec	CGGGTCTAAT	CAAATAGT	-----	-----	CAGATAAACC	-----	-----	-----
snasim	CGGGTCTAAT	CAAATAGT	-----	-----	CAGATAAACC	-----	-----	-----
snavir	ATGGCCTAAA	TGTAAGTAA	-----	-----	AAACT	-----	-----	-----
snawil	CATCCCGAAA	TGAAAGAT	-----	-----	AAGATAAACC	-----	-----	-----
snayak	CAGGTATAAT	CAAATAGT	-----	-----	CAGATAAACC	-----	-----	-----

4551

snaana	TCAGCGGTAA	TCCAATCCAA	TCAGGACACT	GAAACTACGG	TCTACCGTCT	----	GG	CATGTCAATC
snaere	TCAGTGGTAA	TCCAATCCAA	TCAGGAC-CT	GAA	-CTACCGTCT	----	GC	CACGTCAATC
snagri	TTATAGAGTG	TACA	-----CT	GTA	-CGG	----	GT	CATGTCAATC
sname1	TCGGTGGTAA	TCCAATCCAA	TCAGGAC-CT	GAA	-CTACCGTCT	----	GC	CA-GTCAATC
snamej	TGAGTG	-----TTTAC	TGTAGATTCC	AGA	-----T	----	GT	CATGTCAATC
snaper	-----	CCGACCAAAA	TCAG	C	GAA	----	GGCAGGACGG	CATGTCAATC
snapse	-----	CCTACCAAAA	TCAG	C	GAA	----	GGCAGGACGG	CATGTCAATC
snasec	TCGGTGGTAA	TCCAATCCAA	TCAGGAC-CT	GAA	-CTACCGTCT	----	GC	CA-GTCAATC
snasim	TCGGTGGTAA	TCCAATCCAA	TCAGGAC-CT	GAA	-CTACCGTCT	----	GC	CA-GTCAATC
snavir	GTCTCAGAGTG	TGCTCTCTGT	TTA	-----CT	GTA	----	GT	CATGTCAATC
snavil	-----CAAAAA	CTCAACTCAA	TCATCA	-----CT	GTA	----	GC	---TGTAGTT
snyak	TCAGTGGTAA	TCCAATCCAA	TCAGGAC-CT	CAA	-----	----	GC	CACGCCAATC

4621

snaana	-----AG	G	A	-----CTCGATAAGC	A	-----GC	CGTC	-----TCT	ACGTTTATCA
snaere	AG	G	A	-----CTCGATAAGC	A	-----GC	CGTC	-----GCT	ACGTTTATCA
snagri	AGACAGTTCA	A	-----ATAGTG	TTCGATAAGC	AGCC	-----GT	CGTCGTCGTC	CTTTATGGCT	ACGTCATATCA
sname1	AGGAAG	G	A	-----CTCGATAAGC	A	-----GC	CGTC	-----GCT	ACGTTTATCA
snamej	AGCTAGTTCA	A	-----ACAGTT	TTCGATAAGC	AGCC	-----GG	TGTC	-----GC	ACGTCATATCA
snaper	AACAAG	G	-----ACCGAC	CTCGATAAGC	AGCC	-----GC	CGTC	-----ACT	ACGGTTATCA
snapse	AACAAG	G	-----ACCGAC	CTCGATAAGC	AGCC	-----GC	CGTC	-----ACT	ACGGTTATCA
snasec	AGGAAG	G	A	-----CTCGATAAGC	A	-----GC	CGTC	-----GCT	ACGTTTATCA
snasim	AGGAAG	G	A	-----CTCGATAAGC	A	-----GC	CGTC	-----GCT	ACGTTTATCA
snavir	AGCTAGTTCA	A	-----ATAGTA	TTCGATAAGC	AGCC	-----GT	CGTC	-----GCT	---GTCATATCA
snavil	AAACAAATTT	G	-----ATCCTGTC	TTCGATAAGC	AGCCGTTT	-----GT	CGTC	-----CTTGT	ACGTTTATCA
snyak	AG	G	A	-----CTCGATAAGC	A	-----GC	CGTC	-----GCT	ACGTTTATCA

4691

snaana	CCTGCAGGCG	CAGTCCTTCT	GGCACTCGAA	CGTATCCT	-----TTT	CGGGAC	-----AACGCATGCG
snaere	CCTGCACTCC	TTGGTGCTCT	G	-----GTGTCCCTTT	GGTATCCCTTT	AGGGACTCGG	GACCCATGCG
snagri	CCTGCG	-----	-----	-----	-----	ACAG	GACGCATGCG
sname1	CCTGCACTCC	ACGGTCCTCT	G	-----GTGTCCCTTT	GGTATCCCTTT	AGGGACTCAG	GACGCATGCG
snamej	CCTGCG	-----	-----	-----	-----	ACAG	GCCGCATGCG
snaper	CCTGCACATC	GTGGCACT	-----	GCATGCGCA	TG	-----	---CGCATGCG
snapse	CCTGCACTTC	GTGGCACT	-----	GCATGCGCA	TG	-----	---CGCATGCG
snasec	CCTGCACTCC	TTGGTCCTCT	G	-----GTGTCCCTTT	GGTATCCCTTT	AGGGACTCAG	GACGCATGCG
snasim	CCTGCACTCC	TTGGTCTCT	G	-----GTGTCCCTTT	GGTATCCCTTT	AGGGACTCAG	GACGCATGCG
snavir	CCTGCG	-----	-----	-----	-----	ACGG	GACGCATGCG
snavil	CCTGCACTGT	TTTG	-----	-----	-----	-----	-----
snyak	CCTGCACTCC	TTGGTCCTCT	GGTGTCCTTT	CGTGTCCTTT	GGTATCCCTTT	AGGGACTCGG	GCCGCATGCG

4761

snaana	CGTAGATCCA	TTGGGCAAAAT	AT	-----GCTGGC	AA	AGGATTGC	-----
snaere	CCGCCATCCG	TTGGGCAAAA	AT	-----GCTGGA	AA	AGGATTGC	-----
snagri	CCGAGATCCG	TTGGGTAAAC	A	-----ATGGGGCCAA	AA	AGGATTGCTG	CTGCCAATCA
sname1	CCGCCATCAG	TTGGGCAAAA	AT	-----GCTGGA	AA	AGGATTGC	ATGGAAAAAA
snamej	CCGAGATCCT	TTGAGCAAAAC	AA	-----TCGAGCCAAA	AA	AGGATTGCTG	CCAATGACAA
snaper	CCGAGATCCG	TTGGGCAAAAC	ACCGATGAAA	GTGGGA	AA	AGGATTGG	-----
snapse	CCGAGATCCG	TTGGGCAAAAC	ACCGATGAAA	GTGGGA	AA	AGGATTGG	-----
snasec	CCGCCATCAG	TTGGGCAAAA	AT	-----GCTGGA	AA	AGGATTGC	-----
snasim	CCGCCATCAG	TTGGGCAAAA	AT	-----GCTGGA	AA	AGGATTGC	-----
snavir	CCGAGATCCT	TTGGGTAAAC	A	-----ATTAAAGGCA	AA	AGGATTGCTG	CAATGAGAAA
snavil	---GATCCT	TTGAGCAAAAT	AT	-----GCTGGC	AA	AGGATTGT	CCACAATAAA
snyak	CCGCATCCA	TTGGGCAAAA	AT	-----GCTGGA	AA	AGGATTGC	GGGGCAGGAT

4831

snaana	AGA	AAACC	-----	-----GAATTC	AA	-----AAC	-----CCCT
snaere	AGA	AAAGT	-----	-----AAACGTGA	AA	-----GTCA	ATGGCGGT
snagri	GGACCTGGAC	AATGC	-----GCA	GGAAACGTGC	-----	AAATG	CGAGCATTTT
sname1	AGA	AATGT	-----	-----AAACGTGA	AA	-----AGCG	ATGTCGGT
snamej	ATATAAAAATG	AATTGAAAGG	ACGTAGAGCA	GGAAACGTGC	-----	TTTGATAATG	TCCTCT
snaper	AGA	AAACCCAGAG	GGACCC	GGAAATGTGC	-----	AGTG	TCGTCGTGTC
snapse	AGA	AAACCCAGAG	GGACCC	GGAAATGTGC	-----	AGTG	TCGTCGTGTC
snasec	AGA	AAAGT	-----	-----AAACGTGA	AA	-----AGCG	ATGTCGGT
snasim	AGA	AAAGT	-----	-----AAACGTGA	AA	-----AGCG	CTGTCGGT
snavir	CAA	AACGC	-----A	GGAAATGTGC	-----	TTTGATAATG	TC
snavil	ACA	AAATC	-----	-----TCTAC	-----	AACT	CTGTCATC
snyak	AGA	AAAGT	-----	-----AAAGGTGC	-----	AGCG	ATGGCGGT

4901

snaana	-GGCAGCTAA	TTAAATATTT	GCATTGCCGA	AAGGTGCAAT	TCTTAG--CG	AGCGATATGG	A-----CTG
snaere	-GTCAGCTAA	TTAAATATTT	GCATTGGCAA	AAGGTGCAAA	AAGC----CG	AGCGATACGG	ATTGGAATTG
snagri	-TGCAGCTAA	TTAAATATTT	ACTTTTGTCA	AAGGTGCAAA	AA TG----TC	TCTGATACGA	A-----TTG
sname1	-GTCAGCTAA	TTAAATATTT	GCATTGGCAA	AAGGTGCAAA	ACGC----CG	AGCGATATGG	ATTGAAATTG
snamej	-GGCAGCTAA	TTAAATATTT	GCGTTTGGCA	AAGGTGCAAA	ATTT----TC	TTTGATACGA	A-----TTG
snaper	GGGCAGCTAA	TTAAATGTTT	GCACTGGCAA	AAGGTGCAAA	TTTT----CA	GATGTTCCGA	ATACGCATTG
snapse	GGGCAGCTAA	TTAAATGTTT	GCACTGGCAA	AAGGTGCAAA	TTTT----CA	GATGTTCCGA	ATACGCATTG
snasec	-GTCAGCTAA	TTAAATATTT	GCATTGGCAA	AAGGTGCAAA	ACGC----CG	AGCGATATGG	ATTGAATCTG
snasim	-GTCAGCTAA	TTAAATATTT	GCATTGGCAA	AAGGTGCAAA	ACGC----CG	AGCGATATGG	ATTGAATCTG
snavir	-GGCAGCTAA	TTAAATATTT	GCGTTTGCCA	AAGGTGCAAT	TTTC-----	TCTGATACGG	A-----TTG
sname1	-TGCAGCTAA	TTAAATATTT	ACATTGACAA	AAGGTGCAAA	ATACAATCCA	TTTGATATGG	T-----TTG
snamej	-GTCAGCTAA	TTAAATATTT	GCATTGGCAA	AAGGTGCAAA	ACGC----CG	AGCGATATGG	ACTGAAATTG

4971

snaana	CTGGGGTATT	CTGTGTGTAT	TTGGGGGCGG	GTGAGAGGA	TATGGCTCAA	AAATGGAAAG	TGT-----AT
snaere	ATGGAATATT	ATTTA-----	-TGGGGGCGG	GTTAGAAGGA	AGT--CCAGG	AAATGGAAAG	TGT-----AT
snagri	ATGAAATAT-	-----	-TAGGGGCGG	GTTAAGAGGA	AGTGCCTC--	-----	-----
sname1	ATGGAATGCT	ATTAA-----	-TGGGGGCGG	GTTAGAAGGA	AGT--CCCCG	AAAAGGAAAG	TGT-----AT
snamej	ATGAAATAT-	-----	-TAGGGGCGG	GTTAAGAGGA	AGT-CCTTTG	AAAATGAAAG	TGG-----
snaper	ATGGCACATT	G-----	-TGGGGGCGG	GTTAAGAGGA	AGT-----	-----	-GC-----AT
snapse	ATGGCGTATT	G-----	-TGGGGGCGG	GTTAGAAGGA	AGT-----	-----	-GC-----AT
snasec	ATGGAATACT	ATTAA-----	-TGGGGGCGG	GTTAGAAGGA	AGT--CGCCG	AAATGGAAAG	TGT-----AT
snasim	ATGGAATACT	ATTAA-----	-TGGGGGCGG	GTTAGAAGGA	AGT--CGCCG	AAATGGAAAG	TGT-----AT
snavir	ATGAAATAT-	-----	-TAGGGGCGG	GTTAGAAGGA	AGT-CCTTTG	AAAGGGAAAG	TGG-----
sname1	ATGAAATATT	ATTGCTAAA--	-GGGGGCGG	ATC-----	-CTCGA-----	AAATGGAAAG	TGTTTTGAAT
snamej	ATGTGATATT	AGTAA-----	-TGGGGGCGG	GTTAGAAGGA	AGT--CCCG	AAATGGAAAG	TGC-----AT

5041

snaana	GACAAATCGG	TTCT--CTG	TTTGACATG	-----CCAAAG	GTGTTTTCTT	C-----	-ATAATTCGA
snaere	GACAAATCGG	TACC-----CTG	TTTGACATG	-----CCAAAG	GTGTTTTCTC	CG-----	-AGAATTCGA
snagri	-----G	ATGCACATTG	CTTGCCCTCA	-----GAAAG	GTGTATTCTG	CCA--ATGC	-AGGATCTGA
sname1	GACAAATCGG	TTCC--CTG	TTTGACATG	-----CCAAAG	GTGTTTTCTC	CG-----	-AGAATTCGA
snamej	-----AACCCCT	CCAATCATTG	TTTACCTATG	-----GAAAG	GTGTATTTTG	AGCATGC--	-TGAACTCGA
snaper	GATAAATCGG	TTGCATTTTG	TTTGCAATTG	-----GCAAA	GTGTTTTCTG	CG-----	-AGAATTCGA
snapse	GATAAATCGG	TTGC--CTG	TTTGCAATTG	-----GCAAA	GTGTTTTCTG	CG-----	-AGAATTCGA
snasec	GACAAATCGG	TTCC--CTG	TTTGACATG	-----CCAAAG	GTGTTTTCTC	CG-----	-AGAATTCGA
snasim	GACAAATCGG	TTCC--CTG	TTTGACATG	-----CCAAAG	GTGTTTTCTC	CG-----	-AGAATTCGA
snavir	-----AACCTT	CTACTCATTG	TTTGCCCTTA	-----CCAAAG	GTGTATTTTG	CTTATGC--	-AGAATTTGA
sname1	GAAATGACAA	TTTTTCGTTT	TTTTCCCGAG	TTTCCGAAAG	GTGTTTTGTC	CCATTTGTTG	AAAAATTTGA
snamej	GACAAATCGG	TTCC--CTG	TTTGACATG	-----CTAAAG	GTGTTTTCTC	CG-----	-AGAATTCGA

5111

snaana	TATT--TATGT	GAGTGTGTGT	ATTGTGATGT	CCCTGTTTGC	CAAGAGGGTT	GA-----	-AGGA-----
snaere	TAT-----	-TGCTATT	GTTGTGATTT	-CTGCTTTT	CGAGAGGGTT	GG-----	-CGGA-----
snagri	TAT-----	-TGCTATT	ATTGTA-----	AAATGGAAGGA	AGAGAGTATT	AAATTTATGGA	CACAAA-----
sname1	TAT-----	-TGCTATT	GTTGTGATTT	-CTGTTTTT	CGAGAGGGTT	GG-----	-CGGA-----
snamej	TAT-----	-----	-----	-----	-----	-----	-----
snaper	TATG-----	-----	TTTGTGCTCT	ATTGACTGAG	AGAGAGGGTT	GGGCTGCTGC	TCGGCA-----
snapse	TATGCCCTTT	GTGCTCCCCC	TTTGTGCTCT	ATTGACTGAG	AGAGAGGGTT	GGGCTGCTGC	TCGGCA-----
snasec	TAT-----	-TGCTATT	GTTGTGATTT	-CTGTTTTT	CGAGAGGGTT	GG-----	-CGGA-----
snasim	TAT-----	-TGCTATT	GTTGTGATTT	-CTGTTTTT	CGAGAGGGTT	GG-----	-CGGA-----
snavir	TAT-----	-TGTTATT	AATGAG-----	-----GAAATAGTC	AGGAAGGGCA	GGGCAGGTTT	ACTGAAATCG
sname1	TCT-----	-CTCTCT	TTTTTG-----	-----AAGGC	AGGAAGGGCA	GAGA-----	-AGGA-----
snamej	TAT-----	-TGCTATT	GTTGTGATTT	-CTGTTTTT	CGAGAGGGTT	GG-----	-CGGA-----

5181

snaana	-----	-AATTGTCA	CA-----	-----	-AAATGTG	AT-----	-CCCCAA-G
snaere	-----	-AATTGTCA	CA-----	-----	-AAACATG	AGCAGGGGCA	GACCCCCAA-G
snagri	-----TG	ACAAATGCTG	CAAAATGAA	ATACAATCAA	TTGAAATATG	AGCAGTAG--	---ACCAAAG
sname1	-----	-AATTGTCA	CA-----	-----	-AAATATG	AACAGGGGCA	GACCCCCAA-A
snamej	-----	-TGCTCA	TA-----	-----	-GTGTATA	AT-----	-----
snaper	-----	-AATTGTCA	CA-----	-----	-AAGTACA	CG-----	-AAGCACCAG-A
snapse	-----	-AATTGTCA	CA-----	-----	-AAGTACA	CG-----	-ACGACCCAG-A
snasec	-----	-AATTGTCA	CA-----	-----	-AAATATG	AGCAGGGGCA	GACCCCCAA-A
snasim	-----	-AATTGTCA	CA-----	-----	-AAATATG	AGCAGGGGCA	GACCCCCAA-A
snavir	AAGACAACTG	GCAAAATGCTG	CA-----	-----	-AAATATA	TT--GTACA	AAATCCCCAATG
sname1	-----	-AGTTGTCA	TA-----	-----	-GGAAAAGG	AGTTTATATT	GTTTCCG--G
snamej	-----	-AATTATCA	CA-----	-----	-AAATATA	AGCAGGGGCA	AACCCCCAA-G

5251

snaana	ATGCGGAAAT					GTT	TC-CTGTTTC	CTG				TTG
snaere	ATGCGGATGT	TTG				GTT	TC-CTGTTAA	TTA				TTG
snagri	GCGGTGACA-					GTT	TCCCT					TTT
sname1	ATGCGGATGT	TTG				GTT	TC-CTGTTAA	TTA				TTG
snamej						G						TTG
snaper	GGAATGAGGC	-TG				GCT	TC-CTGTGGA	TGAAATGATC	CCTGAATATG			
snapse	GGAATGAGGC	-TT				GCT	TC-CTGTGGA	TGAAATGATC	CCTGAATATG			
snasec	ATGCGGATGT	TTG				GTT	TC-CTGTTAA	TTA				TTG
snasim	ATGCGGATGT	TTG				GTT	TC-CTGTTAA	TTA				TTG
snavir	CTATTGAAAT	ATGAGCGAAA	GAGCGGAAGA	AAGAGAAATT	TCACTATAGA	TCTGCTCGAC			AATTAGTCTG			
snawil	TTTCTGAAAC	TACAT				TTT	TCTCTCTCAA	TCT				TTT
snayak	ATGCGGATGT	TTG				GTT	TC-CTGTTAA	TTA				TTG

5321

snaana	ATTATTTTGA	AA-GTCTAGT	TCTGATAGTT	CTGAAATCTT	AAGATTTTCT	TTTC				AA
snaere	TCTTTCTTGA	AG-GCACA	-CAAAAAC TG	CAGAACGA	AAGATTCAAT	TTGA			GTTTCGAGAG	
snagri	CAAATTTTTC	GGGAAATAAG	CTGCCAAGATG	TGAAAAATA	-AATGTAAT	TTTT				GAA
sname1	TACATTTTGA	AG-GCACA	-TAGAAAAC TG	TAGAAGGA	AAGATTACAT	TTTTTTTAATG			CGTTTCGATG	
snamej	GGGATTTTGA									
snaper	TGTTTCTTGT	TGTGCTCA	-TGGAAGATG	GAGAGATGGC	CAAGTT					
snapse	TGTTTCTTGT	TGTGCTCA	-TGGAAGATG	GAGAGATGGC	CAAGTT					
snasec	TATATTTTGA	AA-GCACA	-TAGAAAAC TG	TAGAAAAGA	AAGATTACAT	TTTTGAATGC			GTTTCGGGAG	
snasim	TACATTTTGA	AG-GCACA	-TAGAAAAC TG	TAGAAAAGA	AAGATTACAT	TTTT-AATGC			GTTTCAGGAG	
snavir	TGGTAGTTGG	AA-ATAGT	TTGCAAAAATA	AATAAATA	ATAGTTTG					
snawil	TATCCGTTTC	TAAGACCA	TTTAATGCAA	CCAAAAAC TG	GCTACTAAAT	CTTA				AAA
snayak	TGTTACTTGA	AG-GCACA	-TAGAAAAC TG	CGAAAAGA	AAGATTACAT	TTTT				

5391

snaana	ATAATTAACA	CCTTIA-AAA	TTTCTTTTGC	ATTCTGTTTA	A-TTTATT	-TTTATAAA	AATATTCAATC
snaere	A-----	TGG	TGTTTTCAA	-TA	A-CATATT	-GTTGCCAA	GTTTTTAGTT
snagri	ATAATAATCA	CAAGCATGAA	TTTCTTTTGT	AATTGTTTTT	AATTTATTTA	AGTTTGTAAT	AATATATATG
sname1	AATGCTGTTA	CTACCTAAAA	TGTTTTCTA	-TA	A-CTTTTG	-GTTACAAA	TTTTTAAATTT
snamej							
snaper		CG-TGG	TGATTTTTG	-TA	ATTTTATT	-TTTCAATAAA	AATA--GATG
snapse		CG-TGG	TGATTTTTG	-TA	ATTTTATT	-TTTCAATAAA	AATA--GATG
snasec	ATGAAACAGC	ATCTTA-AAA	TGTTTTCAA	-TA	A-CTTTTG	-GTTACCAA	TTTATTAATT
snasim	ATGAAACAGC	ATCTTA-AAA	TGTTTTTAA	-TA	A-TTTTTG	-GTTACCAA	TTTATTAATT
snavir		GAA	CTTCTTTTGT	CATGTTTTAA	GTTTTATT	-TTTTATAAA	AATATATATG
snawil	ATATAAAGAT	GAATTTGAGA	AATCATCTCA	TATTGGTTTA	GTTTTGTT	-TAAA	AATTAAAATT
snayak	TTATGCTGA	CTATTAGAAA	TGTTTTCAA	-TA	A-CATATT	-TTTACGAA	GTTGTTAATT

5461

snaana	TTCTTAGAAC	TAGCAATAAT	CTTAATAACA	ATTATATAAT	GTCTATGGGT	TTACATAA	-ATTATTTT
snaere	TTAGGCCAAA	CAGT	TGTAATCCCA	TC-----	GTCTGTACTT	TAAACCGA	-----TAGATT
snagri	GGCTTAAGAA	CTATCAAAATA	TGTTAACATA	AACATTTGCT	AAATATAAAT	AAAAATGAGT	TAATTATACA
sname1	T-----		TTTATTCACA	TC-----	GTCTGTATTT	GAGCCCAA	-----ATATT
snamej							-----ATTCA
snaper	TTCTTAAAAAT	TAGTAAAAAGT	CTTAACAACA		-GTGGTT	TAACATAATG	AGAATACGTG
snapse	TTCTTAAAAAT	TAGTAAAAAGT	CTTAACAACA		-GTGGTT	TAACATAATG	AGAATACGTG
snasec			CTTATTCAAC	TC-----	GTCTGTACTT	TAAGCCCA	-----AATATG
snasim			CTTATTCAAC	TC-----	GTCTGTACTT	TAAGCCCA	-----AATATA
snavir	GCTTAAAAAC	TAGCAAAAAGA	TCTTAACATA	AACATTTGCT	AAACATAAAT	-CATAA	-ATTATACA
snawil	GTTGAAGTAG	AAGTGAAATC	CATATGATCA		GTCTATAG		-AATATATT
snayak	GTAGTCCAAA	TATT-----	CGTATCCACA	TC-----	GTCTGTACTT	AAAGCCAA	-----AATATA

5531

snaana	AATAA		TTAAA	TGGATAATGA	GTAGATTTGG	TCAAATGC-T	GCTTGTGACA
snaere	AGTAA		AAGAA	TTTAAATTTAA	ATATTTCTAT	AAAGCTTA-C	TCCCGTAAAA
snagri	AGTTT	CAGT	GAAAACTATG	AGCTAAATGT	CTGAATTTGG	TCAAATGC-T	GTCTGATAAA
sname1	AGTGA		TAGAA	TTTAAATTTGA	ATAATTTCTAT	ACAGTTTC-C	TTCTGTGAGA
snamej	AATAG			AG	ATATACTGAG	CAGAGTCC	
snaper	AGTAAAAATA	GTCTGTTAAA	TAAACTAGAA	AACTAAATGG	TTAAATTTGG	TCAAATGC-T	GCT-GTGATG
snapse	AGTAAAAATA	GTCTGTTAAA	TAAACTAGAA	AACTAAATGG	TTAAATTTGG	TCAAATGC-T	GCT-GTGATG
snasec	AGTAA		TAGAA	TTTAAATTTGA	GTATTTCTAT	AAAAATTTT	TTCTGTGAAA
snasim	AGTAA		TAGAA	TTTAAATTTGA	GTATTTCTAT	AAAAATTTT	TTCTGTGAAA
snavir	AGTTT	AAT	AAAAGTTAAT	AGCTAAATGC	TTAAATTTGG	TCAAATGC-T	GTCTGATAAA
snawil	AATAA		CTATAATAA	AATAATTTAT	TAGCATTTAA	TCAA	-CTTGATAAA
snayak	AGTAA		TACAA	TTTAAATTTAA	ATATTTCTAA	CAAAATTTAC	TCCTGTGAAA

6301

snaana	-----	-----	-----	-----	-----	-----	-----
snaere	-----	-----	-----	-----	-----	-----	-----
snagri	-----	-----	-----	-----	-----	-----	-----
sname1	-----	-----	-----	-----	-----	-----	-----
snamej	-----	-----	-----	-----	-----	-----	-----
snaper	CTTGAAGCGG	TAGTTCTTGG	CGGCGCTCGA	GGCGGAGCCA	ACGGCGCCAC	TGGCATTGG	AGCACTGCTG
snapse	-----	-----	-----	-----	-----	-----	-----
snasec	-----	-----	-----	-----	-----	-----	-----
snasim	-----	-----	-----	-----	-----	-----	-----
snavir	-----	-----	-----	-----	-----	-----	-----
snawil	-----	-----	-----	-----	-----	-----	-----
snayak	-----	-----	-----	-----	-----	-----	-----

6371

snaana	-----	-----	-----
snaere	-----	-----	-----
snagri	-----	-----	-----
sname1	-----	-----	-----
snamej	-----	-----	-----
snaper	GCGGCCAAGT	AGGCGTAGGA	GCCAAAGC
snapse	-----	-----	-----
snasec	-----	-----	-----
snasim	-----	-----	-----
snavir	-----	-----	-----
snawil	-----	-----	-----
snayak	-----	-----	-----