

```

1
sogSana
sogSere GAGTAGGAGG AGGAGCAGGT CGAGAGGTCG TCGTGCTGAT TCTCCGATGC AGCAGTTCCA CAGAAGCTGT
sogSgri
sogSmel ATTTAATCGA AGGACTGCAA TGGGCATATA CAACA-AAAT CTACGATAAA GGATTCAATA TTGATTGTTA
sogSmoj
sogSper
sogSpse
sogSsec
sogSsim ATTTAATCGA AGTATTA AAGTATCTA CGACATCAGT TGACCATAAA GGATTCACTA TTGATTGTTA
sogSvir ATTTAACCGA AGTATTG AAGTATCTA CGACATCAGT TGACCATAAA GGATTCACTA TTGATTGTTA
sogSwil CGATCGTAGA ATTAGATTTA AAAAAAAGGA ACAAACAAGC GAAAAAGGGG TGATTAAACCA TGGCTAGTTA
sogSyak ATTTAATCGA ACGACTG AAAAAAAGGA ACAAACAAGC GAAAAAGGGG TGATTAAACCA TGGCTAGTTA

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71
sogSana
sogSere CGTAATCCT
sogSgri TCCTTTCAT
sogSmel TATGTTTAT
sogSmoj
sogSper CACGGACAG
sogSpse GACAGACAG
sogSsec TACGTTTAT
sogSsim TACGTTTAT
sogSvir TTCTTTCCA
sogSwil TAAATTGATT TAATAAAATAT TTGATTTTTC AATTAATTCAA GATGAAGATC ACTTCATTTT TATCACCAG
sogSyak AATGTTTAT

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141
sogSana
sogSere
sogSgri
sogSmel GGCAGC CAATTGATGC CGACTGACCT GTGTGTGTGT GTCTGTGTGT GTGGAAGCTC AGGATGGACA
sogSmoj
sogSper
sogSpse
sogSsec GGCAGC CAATTGATGC CCCTGACC TGTGT GTGGAAGCTC AGGATGGACA
sogSsim GGCAGC CAATTGATGC CCCTGACC TGTGT GTGGAAGCTC AGGATGGACA
sogSvir
sogSwil AATCAGAAAA CTATATTTAA TATCAAAATTT GTCAAATCTAA TCAGTTGACT TGATAAGCTG TGTACTTAAG
sogSyak G ACTGACCTGT GTGGAAGCTC AGCATCGACA

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211
sogSana
sogSere G
sogSgri G
sogSmel GA
sogSmoj
sogSper GACAGTC
sogSpse GACAGTC
sogSsec GA
sogSsim GA
sogSvir AG
sogSwil AACAAAGTCCC GACTACATAG TTCCTTTTCGT TTGCTTTAAA GTCCCTTAAA GTCTTTTAAAG ATTGCTCAAT
sogSyak GGCTCTCCAG GATCGTCGAG TTCAGAG

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281
sogSana
sogSere
sogSgri
sogSmel
sogSmoj
sogSper
sogSpse
sogSsec
sogSsim
sogSvir
sogSwil GATCCATTTC AATAAATTGAT CGATTGTTAC TTTTGTCTTAG TTATTGTTGC GTTTTCAAGT AGATACCTAT
sogSyak

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351

sogSana	-----	-----	-----	-----	-----	ACAGG	TAGTC	TAAGGA	---
sogSere	-----	-----	-----	C	-----	CA	ACTGGCA	-----	---
sogSgri	-----	-----	-----	CAACG	CCGG	-----	CA	ACAGATGATG	CACGTTTGTG
sogSmel	-----	-----	-----	CAGCG	-----	GA	ACAGGTAGGC	TGGTCGA	---
sogSmoj	-----	-----	-----	-----	-----	-----	-----	-----	---
sogSper	-----	-----	-----	-----	-----	GA	ACAGGTAGGA	TGGGAAT	---
sogSpse	-----	-----	-----	-----	-----	GA	ACAGGTAGGA	TGGGAAT	---
sogSsec	-----	-----	-----	CAGCG	-----	GA	ACAGGTAGGC	TGGTCAA	---
sogSsim	-----	-----	-----	CAGCG	-----	GA	ACAGGTAGGC	TGGTCGA	---
sogSvir	-----	-----	-----	-----	-----	CA	ACAGATGACG	CACGTTTGTG	---
sogSwil	TATATATGCAA	AATGATTATT	CAACGGAATC	CAGTCAAGAA	TTCTATTATA	ACAGGTAAACA	AAAAATTCGTA	-----	---
sogSyak	-----	-----	-----	-----	-----	GA	ACAGGTAGGA	TGTTCCA	---

421

sogSana	-----	-----	-----	-----	-----	GTGGGAA	-----	-----	---
sogSere	-----	-----	-----	-----	-----	GGGGCAAG	-----	TGGCTCCTGC	---
sogSgri	CTA	-----	C	-----	-----	GTGGTAAA	-----	AACCCATCGT	---
sogSmel	-----	-----	-----	-----	-----	TCGGAAA	-----	-----	---
sogSmoj	-----	-----	-----	-----	-----	CGTAAA	-----	-----	---
sogSper	-----	-----	-----	-----	-----	ACGGAAA	-----	-----	---
sogSpse	-----	-----	-----	-----	-----	ACGGAAA	-----	-----	---
sogSsec	-----	-----	-----	-----	-----	GCGGAAA	-----	-----	---
sogSsim	-----	-----	-----	-----	-----	GCGGAAA	-----	-----	---
sogSvir	CTGGGCCCCGT	GCACACACAC	ACATACACAC	ACACACACAC	ACCGAGTGA	TTGTGGGAAA	ACCCCGTTGT	-----	---
sogSwil	AGG	-----	CACAC	TGATAAGGCC	CAATGGAAA	AAAAAAAAAA	AAACGGAAA	-----	---
sogSyak	-----	-----	-----	-----	-----	GCGGAAA	-----	-----	---

491

sogSana	-----	-----	T	TCCCA	GCAT	ATATCTGCCA	TATCTAATAT	ATGAC	-----	ACGGGGA	---	
sogSere	GTCC	-----	T	TGCCA	CCAG	ATGACGCGCG	-----	-----	-----	ATGTGGCCG	---	
sogSgri	GTGT	-----	TTT	TCTCG	ATAA	CCAAATGCGAG	ACAATAACGT	GAGATTT	-----	CCTTGGCCG	---	
sogSmel	-----	-----	T	TCCCA	CCAT	ACA	CATG	TGGCTATAAT	GCCA	-----	ACGGCATCG	---
sogSmoj	-----	-----	T	TCCCA	CCAT	AGGAGCAGGA	TCATAAACAC	AGCAATTTAA	-----	TACAAGGCA	---	
sogSper	-----	-----	T	TCCCA	CCAC	ATAAAACCG	-----	-----	-----	AATCAGGCG	---	
sogSpse	-----	-----	T	TCCCA	CCAC	ATAAAACCG	-----	-----	-----	AATCAGGCG	---	
sogSsec	-----	-----	T	TCCCA	CCAT	ACA	CATG	TGGCTATAAT	GCCA	-----	ACGGCAGCG	---
sogSsim	-----	-----	T	TCCCA	CCAT	ACA	CATG	TGGCTATAAT	GCCA	-----	ACGGCAGCG	---
sogSvir	GTGTGTGTGT	GTGTGTGTGT	TCTTG	AAAA	CCAAATGCTA	ACAATAACGC	-----	GCTATTTG	-----	GCTGGGCCA	---	
sogSwil	-----	-----	T	TCCCA	TCAT	ATG	-----	AGAG	-----	ACGTAAAGC	---	
sogSyak	-----	-----	T	TCCCA	CCAT	ATAGTGCATG	T	-----	-----	ACGTAGACG	---	

561

sogSana	-----	AAG	TGTGAAA	-----	ACAGATGC	CTGTCTCTTG	TATGAGGCGA	TCGGGCCCGC	-----	CTCATAAAA	---
sogSere	GAA	-----	AAA	CCCAAAA	-----	CCAGACC	-----	GAAC	-----	CGAAAA	---
sogSgri	TCTGTATGA	-----	TCTAGAA	-----	ACACGTGA	GGCTCTCTTG	C	-----	TCCTCT	CCTCAGGCAC	---
sogSmel	-----	AGG	TGCGAAA	-----	ACAGAT	-----	-----	GCAGC	-----	CTCATAAAA	---
sogSmoj	GAGC	-----	AGG	CGCTAAA	-----	CAGATGC	-----	GCAGTG	-----	GCCCCATAAAA	---
sogSper	AAACAGAAAG	-----	TGCGAAA	-----	ACAGAT	-----	-----	GCAGC	-----	CTCATAAAA	---
sogSpse	AAACAGAAAG	-----	TGCGAAA	-----	ACAGAT	-----	-----	GCAGC	-----	CTCATAAAA	---
sogSsec	-----	AGG	TGCGAAA	-----	ACAGAT	-----	-----	GCAGC	-----	CTCATAAAA	---
sogSsim	-----	AGG	TGCGAAA	-----	ACAGAT	-----	-----	GCAGC	-----	CTCATAAAA	---
sogSvir	TGA	-----	TGA	TCCAGAAATG	CGACAGATTG	TCTGCCCTTG	TTGCCC	-----	GTA	CTCAGGGCA	---
sogSwil	-----	AGA	TGCCGAT	-----	GCTCATGC	G	-----	GCAGC	-----	CTCATAAAA	---
sogSyak	-----	AAG	TGCGAAA	-----	ACAGAT	-----	-----	GCAGC	-----	CTCATAAAA	---

631

sogSana	GGGG	-----	-----	CGGCAGGAT	A	AGCGCAG	GACGA	-----	GGCGAGGT	-----	---
sogSere	CTGGTCAGGG	-----	TTCCCCGAAAA	CCGTAGAGCA	AAAAAGCAAT	GGCGCACAA	GGGCGGATT	-----	GGTAAAGTT	-----	CCGGAAATTC
sogSgri	GAGACGTATT	-----	GGGCCGAGG	GCATCCAAACC	AACCAATATGG	GTATA	-----	-----	-----	-----	---
sogSmel	GGGG	-----	-----	CG	CAGAT	AAGGTGCGCG	TT	-----	-----	-----	---
sogSmoj	CGGGGCACAC	-----	ACACACACAG	ACGCAGACAC	AGCGGCGAGA	GCTGC	-----	CGCTGGAC	-----	TCAGTCGTG	---
sogSper	GGGG	-----	-----	CG	CAGAT	A	AGCGATG	GGCAA	-----	TGTCGGTCG	---
sogSpse	GGGG	-----	-----	CG	CAGAT	A	AGCGATG	GGCAA	-----	TGTCGGTCG	---
sogSsec	GGGG	-----	-----	CG	CAGAT	AAGGTGCGCG	TT	-----	-----	-----	---
sogSsim	GGGG	-----	-----	CG	CAGAT	AAGGTGCGCG	TT	-----	-----	-----	---
sogSvir	GCGGCC	-----	-----	CAGCCATAT	G	-----	GTTAA	-----	AGGTT	ACGGGAATTC	---
sogSwil	GGGG	-----	-----	CA	CAATT	C	-----	-----	-----	-----	---
sogSyak	GGGG	-----	-----	CG	CAGAT	AAGGTGCGCG	TT	-----	-----	-----	---



1051

sogSana	GTACCTGTG	ACCTGACCTG	---	---	---	---	CCC	TGGGCT	---
sogSere	ACGGTCTGA	ICTGAGACCT	GGCGGCAGGG	ATGGGCCAAC	CGCAC	---	GGTTCTTCCT	GGTCGGA	---
sogSgri	CACACTTGGG	CTTGGCCC	---	---	---	---	---	---	---
sogSmel	CCAAATCCGTA	T---ACCGG	TATATCCAA	---	---	---	GCATTCTACC	TGTCCT	---
sogSmoj	CCAGGCCCAA	CTTTGACCTG	TCCTGGGG	CAGGACCTGC	AGCTAGCCTA	---	GCCGACTACC	TGTTACCCCT	---
sogSper	CGAGGCCGGG	ACCTGGACCA	GGACCTGGAC	CTGGATCGAC	ATCGA	---	CTGCTCTACC	TGTCCT	---
sogSpse	CGAGGCCGGG	ACCTGGACCA	GGACCTGGAC	CTGGATCGAC	ATCGA	---	CTGCTCTACC	TGTCCT	---
sogSsec	---AATCCACA	TCCCATCCAA	---	---	---	---	GCATTCTACC	TGTCCT	---
sogSsim	CCAAATCCACA	TCCCATCCAA	---	---	---	---	GAATTCTACC	TGTCCT	---
sogSvir	ACAGGTTGC	---	---	---	---	---	GTGCTCGGTA	CGGTTTT	---
sogSwil	TGAACCCGAA	TCTGAACCAC	GACCTGAATA	ATCTGACAAAC	CCACA	---	CCCGCCTACC	TGTTGATCTG	---
sogSyak	CCAAATCCCAA	TCTCAATCCC	AATTCCAATC	CACCTCCCAC	ATCCA	---	GCAGTCTACC	TGTCCT	---

1121

sogSana	-----	GGGA	ATTTCCGGAC	AGT	---	---	C	CCATATAACC	CATATG	IGCA
sogSere	-----	TGGG	CTTTTCCCAC	---	---	---	G	CAACCGCGAC	CTATAC	---
sogSgri	-----	GGG	ATTTTCCCAC	GGC	---	---	C	CATCTTCGCT	TATCTG	---
sogSmel	-----	GGGA	ATTTCCGAT	---	---	---	T	TGGCCGCAAC	CATATG	---
sogSmoj	GCAA	GGGA	ATTTCCGGG	---	---	---	G	TAGCTTAACC	CATATG	---
sogSper	-----	GGGA	ATTTCCGC	---	---	---	C	AGATTCAACC	CATATG	---
sogSpse	-----	GGGA	ATTTCCGC	---	---	---	C	AGATTCAACC	CATATG	---
sogSsec	-----	GGGA	ATTTCCGAT	---	---	---	C	CGGCCGCAAC	CATATG	---
sogSsim	-----	GGGA	ATTTCCGAT	---	---	---	C	CGGCCGCAAC	CATATG	---
sogSvir	-----	TGGG	CTTTTCCCAC	GGC	---	---	C	CAATCTCGCT	TATCTG	TT
sogSwil	TGTGTGTGTT	GCTGG	GGGA	ATTTCCGTTT	TTTTTCTTTT	TCCTTCTCCT	CATCTTAACC	CATATG	---	
sogSyak	-----	GGGA	ATTTCCGA	---	---	---	T	CGGTGCAACA	CATATG	---

1191

sogSana	ACTCC	---	ATGG	ACCTGTGGAC	CTG	---	---	---	TGGACC	---
sogSere	GGGCC	---	CCTT	TTATGAGGC	---	---	---	---	TGCAT	---
sogSgri	GTGCC	---	CCTT	TTATGAGGCA	TCGC	---	---	CATCG	CCATGATC	---
sogSmel	---	GGC	---	ACGG	ATGCGTGAGA	GTGCTC	---	---	TCCGTG	---
sogSmoj	---	GCT	GGCT	GTCTGGCTGG	TTGCTTGGCT	GAG	---	---	GGGAC	---
sogSper	TCGCA	---	---	GC GG	ATGCGTGAGA	ATAA	---	---	TACGAGG	---
sogSpse	TCGCA	---	---	GC GG	ATGCGTGAGA	ATAA	---	---	TGCGAGG	---
sogSsec	---	GGC	---	ACGG	ATGCGTGAGA	GTGC	---	---	TCCGTG	---
sogSsim	---	GGC	---	ACGG	ATGCGTGAGA	GTGC	---	---	TCCGTG	---
sogSvir	GTGCC	---	---	CCTT	TTATGAGCCA	TCGACCGCA	CCGTACCGCA	CCGCACCGCA	CAACGCATC	---
sogSwil	---	GGC	TTAAA	ATATATATGT	ATGTATATCG	GAGG	---	TC	TGCGTGA	---
sogSyak	---	GGC	---	ACGG	ATGCGTGAGA	GTGC	---	---	TCCGTG	---

1261

sogSana	-----	GTTTTCTAGA	TCATCGTGGG	TC	---	TGTG	TGCACAACAA	TGGGTTAT	---	TGTCCT	GG
sogSere	-----	CTGTTTTTCG	ACCTC	---	---	---	GGTG	TC	GATGGCA	CTATACC	---
sogSgri	-----	TGTTTTTTCG	ACATT	---	---	---	---	TC	TGTTGT	TGTTT	TA
sogSmel	-----	CGATTCTAGA	TCATCGTGG	---	---	GTAT	TCGCAGACAA	TGGGTTATT	---	GTGCT	---
sogSmoj	---	GATCTGTTG	CATTTCTGGA	TCAT	---	---	---	---	---	---	---
sogSper	---	AGAACCTCT	CGTTTTCTAGA	TCATCATGTT	---	CCAAACAATAA	TGGACAACAA	TC	GGTTATT	GTGTT	GG
sogSpse	---	AGAACCTCTG	CGTTTTCTAGA	TCATCATGTT	---	CCAAACAATAA	TGGACAACAA	TC	GGTTATT	GTGTT	GG
sogSsec	-----	CGATTCTAGA	TCATCGTGG	---	---	GTAT	TCGCAGACAA	TGGGTTATT	---	GTGCT	---
sogSsim	-----	CGATTCTAGA	TTTTCTT	---	---	---	---	GGGTATT	---	ATATTC	---
sogSvir	-----	TGTTTTTTCG	ACTTT	---	---	---	---	CTG	CTTGGCTGTG	TTGCTGTG	---
sogSwil	---	GAAATC	ATTTTGTAGA	TCATCATTC	---	---	CGAAACAATG	TCAGGTTATT	---	GTTCGTGAGA	---
sogSyak	-----	CGATTCTAGA	TCATC	---	---	---	ACAA	TGGGTTATT	---	GTGTGCC	---

1331

sogSana	CCACACATTT	CAAAAT	---	ATTT	TCGGGAACCG	TTTTCTGGGT	TTTCTCTGTC	CTCTGCCCTC	---	
sogSere	---	CACAT	AGATGTATCT	ACTATATATG	GTGGGAATTT	CCGCCAGCG	ATCCTACCTG	TTCC	---	
sogSgri	---	GTCCATGT	GAT	---	GGGAAT	---	---	---	---	
sogSmel	---	GCAATC	GATGTTGGGT	CTTTG	GTTT	TCGGAAACTC	TGACCAGGTT	TTGGTTTTTC	GGTT	---
sogSmoj	---	---	---	---	---	---	---	---	---	---
sogSper	TCCTCTTTT	TCTTA	---	TTTT	TCGGGAATCA	TACCCGGG	---	---	---	---
sogSpse	TCCTCTTTT	TCTTA	---	TTTT	TCGGGAATCA	TGCCCCGGG	---	---	---	---
sogSsec	---	GCAATC	GATTTTGGGT	ATTCG	GTTT	TCGGAAACTC	TGACCAGGTT	TTGGTTTTTC	GATTTTGGGT	---
sogSsim	---	GCAATC	TCTTT	---	CTTCATGATT	GAGGAAT	---	TTTT	GTTTTTATG	---
sogSvir	TTGTCTTGGT	GTTTATGATC	CGCTCACATT	ATGGGAAT	---	---	---	---	---	---
sogSwil	TCCTCTTGGT	GAAAT	---	CCTT	TTGGAATCTG	---	---	---	---	---
sogSyak	---	GCAATC	GATTTGTGCT	CTACGGTTTT	TAGGAAC	---	---	---	---	C

sogSana TTGGGCTTGG GTTTTTC --- GGGTTG GCATAACGTC ATCTGGTCCA GGACT --- CGGCA  
 sogSere CTGAATCGG GGATCTGGCC ATCCTGAGCT TCCACAGGTC AGTCGGC --- ---  
 sogSgri --- TTAT GTATTTCCCG GCTTTACCTG ACCGGGAATC A --- AACCA  
 sogSmel TTGATTTTGG GTTTTTC --- GGCCGC ATCGTTCGTC ATCTGGTGGC ACAGGACG --- CACTT  
 sogSmoj --- --- --- --- --- --- --- ---  
 sogSper --- TCGG GTTTTTCCTC GGTGCCGTGA AACGTTCGTC ATCTGGTGG --- TGTCA  
 sogSpse --- TCGG GTTTTTCCTC GGTGCCGCGA AACGTTCGTC ATCTGGTGG --- TGGCA  
 sogSsec TTGGGTTTGG GTTTTTC --- GGCCGC ATCGTTCGTC ATCTGGTGGC ACAGCACG --- CACTT  
 sogSsim TTATGGTTT GTTTTTTCATG TCTAGCTCG GCAATAAGTA G --- ATGCA  
 sogSvir --- TTAC GTTTTTCCGT TGCCTCGTTG TTTCGCTGCC A ---  
 sogSwil --- CAGG GTTTTTCCCA A --- TGTGTC ATCTGGTAAT GCGGTGTTGGT TGCACCTCTCT  
 sogSyak CTGCGCTCGG GTTTTTCCCA CATCGTGCAC ATCGTTCGTC ATCTGGTGGC ACAGGACG --- CACTT

sogSana	GGACTG	GCTGG	CATT		TGCCCC	TTTGCTCTGC	TGC					GTCC
sogSere		AT	CAAT		TGGCCG	TCATAA						ACAT
sogSgri	AACC	AA	-	GC	CAAACCCCAAG	GAAGGCAAA	TGGAACCGC					ATCG
sogSmel	GCCCC	T	-	GT	CAGT		TGGTCC	GTGCACCCCT	TGC			GTCC
sogSmoj												
sogSper	GGACTTCTTG		CACCTTGCT		TGCCCCG	TTTGCACCCC						GTCC
sogSpse	GGACTTGTTG		CACCTTGCT		TGCCCCG	TTTGCAGCCC						GTCC
sogSsec	GCCCC	-	GC	CAGT		TGGGCC	GTGCACCCCT	TGC				GTCC
sogSsim	AGATTGGAAT		GAATAAATGC		ATTGCGTA	-	TGAGTCATA	TGG				GTTC
sogSvir	-	GCTTTTAC		CTGCCAGCCA	CAATGTCCCT		CAACGTTGC					CAAGCC
sogSwil	ATCTCTTTTT		CGCTCTCTCT		CACCTGTCTC		TTTCTCTCTG	TGTGTGTGTG	TGTGTGTGTG	TGTCTTGTCA		
sogSyak	GCCCC	T	-	GC	CAGT		TGGTCC	TTGCACCCCTG	GCT			GCCT

sogSana	AGGATTACG			GCAG	CACCTTC				
sogSere	AAAACAATC			AGCAGTAAA	TCCTTTA				
sogSgri	AAACCAACC			CACACAATT	CCCCTCA				
sogSmel	AGGATTACG			A	CACCTTC				
sogSmoj									
sogSper	AGGATTACG			ACGGGCCAGC	CACGTTTC				
sogSpse	AGGATTACG			ACGGGCCAAC	CACGTTTC				
sogSsec	AGGATTACG			A	CACCTTC				
sogSsim	GGGATTGCA								
sogSvir	AAAGCAAGG			CCAGCAGA	AGCTTTC				
sogSwil	AAAGTCACAC	TTTCAAGCTC		AAACTTAAAGC	CACATTCAAA	TTACAAGAAA	TGCCAAATCT	ATAAAATGAA	
sogSyak	AGGATTACG			ACACCTTGA	CACCTTC				

sogSana	-----	-----	-----	-----	TGTGG	AAGTG	-----	-----
sogSere	-----	-----	-----	-----	TGGCC	AACGTA	-----	-----
sogSgri	-----	-----	-----	-----	AATTA	AAITTAATA	-----	-----
sogSmel	-----	-----	-----	-----	TGTGG	AACGCTG	-----	-----
sogSmoj	-----	-----	-----	-----	-----	-----	-----	-----
sogSper	-----	-----	-----	-----	TCTGG	AAGTGG	-----	-----
sogSpse	-----	-----	-----	-----	TCTGG	AAGTGG	-----	-----
sogSsec	-----	-----	-----	-----	TGTGG	AACGCTG	-----	-----
sogSsim	-----	-----	-----	-----	AATGG	AAATGGTA	-----	-----
sogSvir	-----	-----	-----	-----	CATGA	GTTCGCTG	CAATCAA	-----
sogSwil	CTCAAAGCTG	TTGAAAAAAA	ATTGATTGAT	TTATATGCAG	AGTTGGTGGG	GAAATATATA	TATATATATA	-----
sogSyak	-----	-----	-----	-----	TGTGG	AACGCTG	-----	-----

sogSana	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -
sogSere	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	A G T C G
sogSgri	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	A A T A A
sogSmel	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	A A T C G
sogSmoj	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -
sogSper	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	A A T A C
sogSpse	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	A A T A C
sogSsec	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	A A T C G
sogSsim	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -
sogSvir	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	A G T G G
sogSwil	T A T A T G T A T A	T T G T T C A T T G	C A T T T T G C C A	T A T T A C G T G G	C C A T T G T C T G	A T T T T G A T T
sogSyak	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	A A T C G

1751

sogSana	---	---	---	---	---	---	---
sogSere	TAGAACTTAT	ATGCCCATTG	---	TAATC	GCTCGATCAA	AT---	---
sogSgri	TTCAACTAGA	ATAGATTTTG	TTTCAATGTG	TCAAGAATAT	TTTATGTTGT	AGTT---	---
sogSmel	CAGAATCGCA	ACGA---	---	TGACC	TCTCAACCAA	CTTCTCCTCC	TTCTC
sogSmoj	---	---	---	---	---	---	---
sogSper	CAGAGCGGCC	AGGGACCGGA	GCCAGAGCCA	GAGCCAGAGC	CAGGGCCGAG	GGGACCATAG	CCATA
sogSpse	CAGAGCGGCC	AGGGACC	---	---	---	---	---
sogSsec	CAGAATCGCA	CGA---	---	TGACC	TCTCAGCAAC	TCCTTCCTCA	TCCTC
sogSsim	TGGAATGGTA	TTGG---	---	GAAAT	TTTCAACAA	CT---	---
sogSvir	AAGAACAAAT	GTTTATATTA	ATATTAATTA	TGCAATAGTTT	GATT---	---	---
sogSwil	TTCAACAATG	TTGATGATGA	TGATTAATTG	CCTTGGTGAA	TGTCAATTGT	CGCCATATCA	ACT--
sogSyak	GAGAACCACG	ACG---	---	ACC	TCTCAACCTA	CACCCAATCC	TCCTC

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1
sogana -----
sogere -----
soggri -----
sogmel -----
sogmoj -----
sogper -----
sogpse CACATTCCCA CAACAGTCGT TGCATAAGTC TCTGCCCTCG GACGGGCCTGG GTGCCAATGC GTGCCAATGC CATTG
sogsec -----
sogsim -----
sogvir -----
sogwil -----
sogyak -----

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71
sogana -----
sogere -----
soggri -----
sogmel -----
sogmoj -----
sogper -----
sogpse -----
sogsec -----
sogsim -----
sogvir -----
sogwil -----
sogyak -----

```

```

141
sogana -----
sogere -----
soggri -----
sogmel -----
sogmoj -----
sogper -----
sogpse -----
sogsec -----
sogsim -----
sogvir -----
sogwil -----
sogyak -----

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211
sogana -----
sogere -----
soggri -----
sogmel -----
sogmoj -----
sogper -----
sogpse -----
sogsec -----
sogsim -----
sogvir -----
sogwil -----
sogyak -----

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281
sogana -----
sogere -----
soggri -----
sogmel -----
sogmoj -----
sogper -----
sogpse -----
sogsec -----
sogsim -----
sogvir -----
sogwil -----
sogyak -----

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351

sogana	CCTGCTCGCA	CCC-----C	TAATCCC	--	---TGGC---CCC	TGGACGAAGG	GATGCCGCCT	CTGCCCTGGGA
sogere	CCTGCTCGCA	CCT-----C	TAATCCC	CCC	GGGGTT---TTC	GGGACATGGG	ATATTCCCAG	CGGCACAGCA
soggri	GGAAATCCCC	TTTTCCGGAT	TAGCACT	---	---AACATAAA	AAGCGATGAA	AAACCCAGGA	AAACCCAGGA
sogmel	CCTGCTCGCA	CCT-----C	TAATCCC	CCC	AGGGTT---TTC	GGGACATGGG	ATATTCCCAG	CGGCACAGCA
sogmoj	CCGGCTCGCA	CCC-----T	TAAGCCG	---	---	---	---	---
sogper	GGAAATCCCC	TTTTCCGGAT	TAGCAGA	---	---	CAAGCAGAAA	ACACACACAA	AACAATAAAA
sogpse	CCTGCTCGCA	CCC-----C	TAATCCC	---	---AC---CCT	ATGACCTGCC	TCATCCCTGC	CATAGAGAGA
sogsec	GGAAATCCCC	TTTTCCGGAT	TAAAACT	---	---	GGGTACA	ATAATAAAAA	AGAAAAAGGA
sogsim	CCTGCTCGCA	CCT-----C	TAATCCC	CCC	AGGGTT---TTC	GGGACATGGG	ATATTCCCAG	CGGCACAGCA
sogvir	CTGGCTCGCA	CCC-----T	TAAGCCGGG	---	GGTGCATG	GATGCGGTGT	GTGTGTGCGT	GTGTGTGTTT
sogwil	GCTGCTCGCA	CCC-----AGCT	TAATCCC	---	---	---	---	---
sogyak	CCTGCTCGCA	CCT-----C	TAATCCC	CCC	AGGGTT---TTC	GGGACCTGGG	CTATTCCCAG	CGGCCCAAGCA

421

sogana	TAATCCCAGC	CTATTATAAA	GA----	TTTTT	TTTTATGTGT	TGGA	-----	C-----	TAATCCGGA
sogere	CACCAACAC	-----ATCAG	CACCTCCCTCT	---	TTTTATGTGT	CCCA	-----	GTCT	TAATCCGGA
soggri	CAGCAGATCT	GCCTGCTAAA	CAATCTGTGT	---	TGTTGTGTGT	TGCA	-----	GTGTGT	-----GT
sogmel	TAGCACTCCG	TTTTCTTTTT	TTTTTTTTAT	---	TATTATGTGT	TCCA	-----	GTTT	TAATCCGGA
sogmoj	CAGCGTGCTC	GCTCCTTTGG	GTTTTTCACA	---	ATTTTTTATG	CCCC	-----	CCTGC	TAATCCGGA
sogper	TAAAAATAATA	ATAAAAAAAA	GGGAATCTCT	---	CTCTATGGCA	GGGA	-----	AGAGG	CAGGTGATA
sogpse	GATCCCTTTT	TTTTTATTA	TATTTTATTT	---	TATTGTGTGT	TGCTTTTTTC	---	TGCTGTCTC	CTAATCCGGA
sogsec	---	---	---	---	GTG	TGGG	-----	CTATGC	TGTGCCGT
sogsim	TAGCCCAACAC	TCCCTTTT	-----TCTTTTT	---	TATTGTGTGT	CCCA	-----	GTTT	TAATCCGGA
sogvir	TTGCATGTGCC	TTGCAGCTTT	GGGTTTTTCT	---	TCTTTTTATG	CTT	-----	CTGT	TAATCCGGA
sogwil	---	---	TCTT	---	GGTGGTGGTG	CGGG	-----	GGGTTTTCC	CTAATCCGGA
sogyak	CTGCAC	---	---	TCCCT	TTTTTTATTT	TCCA	-----	GTTTT	TAATCCGGA

491

sogana	AAACGGGAAT	-----	-----TCCC	---	TTCCG	---	---	TTTG	CTG	C
sogere	AAGCGGGAAT	---	-----TCCC	---	TTCCG	---	---	CTCG	CTG	C
soggri	GTGTGTGTGT	A-----	-----TCTC	---	TACCG	---	---	CTTGGG	CTG	G
sogmel	AAGCGGGAAT	---	-----TCCC	---	TTCCG	---	---	CTCG	CTG	C
sogmoj	AAATGGGAAT	---	-----TCCC	---	TTCCG	ACTG	TTTGCTGCCT	GCCCG	CTG	C
sogper	GGGTGGGATT	AGGGTGGGAG	CAGGTCCC	---	GCTTAGGGG	TAGACACCTA	ATTCTACCTG	A	---	---
sogpse	AAACGGGAAT	---	-----TCCC	---	TTCCG	---	---	CTCG	ATC	C
sogsec	---CGGAAT	A-----	-----TCCC	---	TTCCG	---	---	AAAAACCTG	G	---
sogsim	AAGCGGGAAT	---	-----TCCC	---	TTCCG	---	---	CTCG	CTG	C
sogvir	AAACGGGAAT	---	-----TCCC	---	TTCCG	---	---	CTCG	CTG	G
sogwil	AAACGGGAAT	---	-----TCCC	---	TTCCG	---	---	CTCG	CTG	G
sogyak	AAGCGGGAAT	---	-----TCCC	---	TTCCG	---	---	CTCG	CTG	C

561

sogana	-----C	TGCCGGTCCG	GGCCGGTCCCT	CAGACTCTAG	GGAGACTGCG	TAGAGAAATAG	AAT	---
sogere	-----CT	GGGAT	GGGCTAG	CAGACGGCTG	GGCGTCCGTG	TTCGTGTTCC	TGTCGGTATC	---
soggri	-----GGGAT	TAAGGGTCCG	AGCCAG	TA	CCCGCTCGA	GGCACCAGCA	AAACCGAA	---
sogmel	-----	CTGCACT	GGGCTG	CG	CAGACGGCTG	GGCGT	---	---
sogmoj	-----	-----CT	GCTAGG	CC	CAGACACCGA	GGCGTCCCTCA	ATGTTTGGGG	CTTTGTGATG
sogper	-----	-----	-----CAC	CG	CGGGCTCTGC	CCCCCTTTT	---	---
sogpse	ATTTGCTTCT	TGCGCTGCCCT	GGGAGG	ACG	CATAGGGCTG	GGCGTCCGGG	TGCTATTCGT	GGTGGTTCCT
sogsec	---CGGGAT	TAGAGGTGCG	AGCAGG	TC	C	CGGCTC	GGCACC	---
sogsim	-----	CTGCACT	GGGCTG	CG	CAGACGGCTG	GGCGT	---	---
sogvir	-----	-----CCT	GCACAG	C	CAGACATCGA	GGCGACGCCA	ACAAAAAGAT	ATG
sogwil	CGATTGGCCT	GGCCTGGCCT	GGCCTG	CG	TAGACGGGG	GGCGGCGGCA	GCAGCAACGT	CGGTGGCAGT
sogyak	-----CT	-----	GGCGTG	CG	CAGACGGGTC	GGCGT	---	---

631

sogana	-----	CTGAA	AGATACTG	---	---	---	---	AGATACTG
sogere	AGTGTCCGTG	T-----	CCGTA	AGCCGCTT	---	ACCGAAA	---	AGATACTG
soggri	-----	-----	CCGCT	ACCTGC	---	---	AGA	TATGGGTATA
sogmel	-----	-----	CCGTA	AGCCGCTT	---	ACCAAAA	---	TACGGGTATA
sogmoj	GGC	-----	TA	AGCTGCTTAG	CAGCTCACAC	ACAAATATACA	ATATACCATA	TATAGATATA
sogper	-----	-----	CCGCT	TTCCGCTT	---	---	---	---
sogpse	GTGTGTGTGT	TGGAACCGTA	AGCTGCTT	---	AC	AACACCGGCA	---	ACAAACCGT
sogsec	-----	TGGAA	TTCTACCT	G	CGATTACGG	---	---	GGATTTC
sogsim	-----	CCGTA	AGCCGCTT	---	---	ACCAAAA	---	TATGGGTATA
sogvir	-----	TGGCA	AGCAGCGCGG	---	CTTTGTCTAT	GCCTCTGCCT	---	CCTCTGCCTC
sogwil	TGCAACCAATT	TTACT	AGTTTTCCCA	---	CTCTAGCCAC	ACAACAA	---	CAACAC
sogyak	-----	TCGTA	AGCCGCTT	---	---	ACCAAAA	---	TATGGGTATA



701

sogana	TACCAA	----	-----	-----	-----	TTG	CAATTGTTG	CAACTC	----
sogere	CCCAAA	----	-----	-----	-----	IG	GGTTCTATG	TAGACC	----
soggri	TACCGA	----	-----	-----	-----	-----	AAGG	CGAACC	AA
sogmel	CCCAAA	----	-----	-----	-----	TGGATGCGT	CCCATGTATA	TAGACC	----
sogmoj	TATAGATCTC	TCTCTCTATA	TATATATTTA	TTTATTTCTA	TATATTTATG	TATATTTTTA	TGGATCAGAC	-----	-----
sogper	-----	-----	-----	-----	-----	-----	-----	-----	-----
sogpse	AGCAAG	-----	-----	-----	-----	-----	AGTC	CAGGCA	-----
sogsec	CCCGCACG	-----	-----	-----	A	TACACGGCCA	TATAGCCATA	TAGACG	-----
sogsim	ACCAAA	-----	-----	-----	-----	IG	GATGCCATATA	TAGACC	-----
sogvir	TGCTAA	-----	-----	-----	-----	GCTGCTTAG	CAGCTCGACC	CAGGCC	-----
sogwil	AACAAA	-----	-----	-----	-----	-----	CAATTTGTTT	TAAACC	-----
sogyak	CCCAAA	-----	-----	-----	-----	ACG	GATTCCTATA	TAGACCATAT	-----

771

sogana	-----	-----	-----	-----	-----	ACACGCT	TGATTAGTTG	CAC	-----
sogere	-----	-----	-----	-----	-----	ATGTAGC	CTATAAAGC	-----	-----
soggri	CTTTTATG	-----	GCA	AACGAGCGAG	AGAGCATCGG	GGCGTATGTG	CAATTTAGCT	GTGCA	-----
sogmel	-----	-----	-----	AT	TGGGTGGTAT	GGACCATGGA	CCATAAAGC	-----	-----
sogmoj	CCAGTTTT	-----	GTG	GGCCCTGGCT	GCTGTTACGA	TTCTTACGCT	TGATTAGCCG	CATTTCTGT	-----
sogper	-----	-----	-----	-----	GGGACAC	GGCGTATGCG	CAATGCGGCT	GCACGCGGAG	-----
sogpse	-----	-----	-----	-----	-----	GCATAGGCA	CAGGC	-----	-----
sogsec	-----	-----	-----	-----	ACAC	GGCGTATGCG	CAATGGCATTT	GGCAAC	-----
sogsim	-----	-----	-----	ATTG	GACCACTTAT	GGACCAGGGA	CCATAAAGCG	GCACCCAAAT	-----
sogvir	-----	-----	-----	-----	CA	GGCCCAAGCC	CAGTTAAGAG	CTCCTTGGGT	-----
sogwil	-----	-----	-----	-----	-----	CATACGCT	TGATTA	-----	-----
sogyak	ACCATATACC	ATAGACCATA	CACCATATAC	CATAGACCAT	ACACCATAGA	CTATAAAGCG	GCACCCA	-----	-----

841

sogana	-----	-----	-----	-
sogere	-----	-----	-----	-
soggri	-----	-----	-----	-
sogmel	-----	-----	-----	-
sogmoj	TTTTATATAA	AGATTCTCTC	ATTTTCCTTT	T
sogper	GCAGAGAC	-----	-----	-
sogpse	-----	-----	-----	-
sogsec	-----	-----	-----	-
sogsim	GCAATTGT	-----	-----	-
sogvir	T	-----	-----	-
sogwil	-----	-----	-----	-
sogyak	-----	-----	-----	-