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sogana	CCTGCTCGCA	CCC-----C	TAATCCC	---GGC-CCC	TGGACGAAGG	GATGCCGCCT	CTGCCCTGGGA
sogere	CCTGCTCGCA	CCT-----C	TAATCCCGCC	GGGGTT-TTC	GGGACATGGG	ATATTCCCGA	CGGCACAGCA
soggri	GGAATTCCCA	TTTTCCGGAT	TAGCACT	---AACATAAA	AAGCGATGAA	AAACCCAGGA	AAACCCAGGA
sogmel	CCTGCTCGCA	CCT-----C	TAAATCCCGCC	AGGGTT-TTC	GGGACATGGG	ATATTCCCGA	CGGCACAGCA
sogmoj	CCGGCTCGCA	CCC-----T	TAAAGCCG	---	---	---	---
sogper	GGAATTCCCG	TTTTCCGGAT	TAGCAGA	---	CAAGCAGAAA	ACACACACAA	AACAATAAAAA
sogpse	CCTGCTCGCA	CCC-----	TAATCCC	---AC-CC	ATGACCTGCC	TCATCCCTGC	CATAGAGAGA
sogsec	GGAATTCCCG	CTTTCCGGAT	TAAAACT	---	GGGTACA	ATAATAAAAA	AGAAAAAGGGA
sogsim	CCTGCTCGCA	CCT-----C	TAATCCCGCC	AGGGTT-TTC	GGGACATGGG	ATATTCCCGA	CGGCACAGCA
sogvir	CTGGCTCGCA	CCC-----T	TAAAGCCGGG	GGTGCAGTGC	GATGCGGTCT	GTGTGTGCGT	GTGTGTTTTG
sogwil	GCTGCTCGCA	CCC-----AGCT	TAATCCC	---	---	---	---
sogyak	CCTGCTCGCA	CCT-----C	TAATCCCGCC	AGGGTT-TTC	GGGACCTGGG	CTATTCCCGA	CGGCCCAGCA

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sogana	TATTCCCAGC	CTATTATAAA	GA-----TTTT	TTTTATTTGTG	TGGA-----	C-----	TAATCCGGA
sogere	CACCACAC	---ATCAG	CACCTCCCTCT	TTTTATTCTG	CCCA-----	GTC-----	TAATCCGGA
soggri	CAGCAGATCT	GCCTGCTAAA	CAATCTGTGTG	TGTTGTGTG	TGCA-----	GTGTGT	---
sogmel	TAGCACTCCG	TTTTCTTTTT	TTTTTTTTAT	TATATTTGTG	TCCA-----	GT-----	TAATCCGGA
sogmoj	CAGCGTGCTC	GCTCCTTTGG	CTTTTTTACA	ATTTTTTATG	CCCG-----	CCCTGC	TAATCCGGA
sogper	TAAAAATAATA	ATAAAAAAAA	GGGAATCTCT	CTCTATGGCA	GGGA-----	AGAGG	CAGGTCATA
sogpse	GATTCCCTTT	TTTTTATTAT	TATTTTATTT	TATTTTGTG	TGTTTTTTTC	TGCTTGTCTG	CTAATCCGGA
sogsec	---	---	---	GTG	TGGG-----	CTATGC	TGTGCCGT
sogsim	TAGCCACAC	TCCCTTT	---TCTTTTT	TATTTTGTG	CCCA-----	GT-----	TAATCCGGA
sogvir	TTGCATTGCC	TTGCAGCTTT	GGGTTTTTCT	TCTTTTTATG	CT-----	GTGT	TAATCCGGA
sogwil	---	---	TCTT	GCGTGTGGT	GGTGGTGGT	GGGTTTTTC	CTAATCCGGA
sogyak	CTGCAC	---	---	TCCCT	TTTTTTTATG	TCCA-----	TAATCCGGA

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sogana	AAACGGGAAT	-----	TCCC	TTCCG	-----	TTTG	CTG	C
sogere	AAGCGGGAAT	-----	TCCC	TTCCG	-----	CTCG	CTG	C
soggri	CTCTCTCTCT	A	TCTC	TACCG	-----	GTGGGCTG	---	G
sogmel	AAGCGGGAAT	-----	TCCC	TTCCG	-----	CTCG	CTG	C
sogmoj	AAATGGGAAT	-----	TCCC	TTCCGACTG	TTTGCTGCCT	GCCCC	CTG	C
sogper	GGGTGGGATT	AGGGTGGGAG	CAGGTCCC	GCCTAGGG	TAGACACCTA	ATTCTACCTA	---	A
sogpse	AAACGGGAAT	-----	TCCC	TTCCG	-----	CTCG	ATG	C
sogsec	---CGGGAAT	A	TCCCAT	GTCCCG	-----	AAAACCCTG	---	G
sogsim	AAGCGGGAAT	-----	TCCC	TTCCG	-----	CTCG	CTG	C
sogvir	AAACGGGAAT	-----	TCCC	TTCCG	-----	---	CTG	G
sogwil	AAACGGGAAT	-----	TCCC	TTCCG	-----	CTCGACCTG	ATCAGAGGTT	---
sogyak	AAGCGGGAAT	-----	TCCC	TTCCG	-----	CTCG	CTG	C

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sogana	-----C	TGCCGCTCCG	GGCGGTCCT	CAGACTCTAG	GGAGACTGCG	TAGAGAATAG	AAT-----
sogere	-----	CT	GCGCTG	CG	GGCGTCCGTG	TTTCGTGTTCCG	TGTCGGTATCG
soggri	-----GGGAT	TAAAGGGTGG	AGCCAG	TA	CCCGCCTCGA	GGCACCGACA	AACCGAA
sogmel	-----	CTGCACT	GCGCTG	CG	CAGACGCATC	GGCGT	---
sogmoj	-----	CT	GCTAGG	CC	CAGACACCGA	GGCGTCCCTCA	ATGTTTTGGGC
sogper	-----	---	CAC	CG	CGGGCTCTGC	CCCGCTTTTC	CTTTTGTCAATG
sogpse	ATTTGCTTGT	TGGGCTGCT	GCGCAG	ACG	CATAGGCGTC	GGCGTCCGGC	TGGCTATCGT
sogsec	---CGGGAT	TAGAGGTGG	AGCAGG	TC	C---CGCCTC	GGCACCGGC	GGTCCGTGTT
sogsim	-----	CTGCACT	GCGCTG	CG	CAGACGCGTC	GGCGT	---
sogvir	-----	CCT	GCACAG	C	CAGACATCGA	GGCGACGCCA	ACAAAAAGAT
sogwil	CGATTGGCCT	GGCCTGGCCT	GGCCTG	CC	TAGACGCGGC	GGCGGCGGCA	GCAGCAACGT
sogyak	-----	CT	GCGCTG	CG	CAGACGCGTC	GGCGT	CGGTGGCAGT

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sogana	-----	CTGAA	AGATACTG	-----	-----	-----	AGATACAGA
sogere	AGTGTCCGTG	T	CCGTA	AGCGGCTT	-----	ACCGAAA	ATAAGGGTATA
soggri	-----	CCGCT	ACCTGC	-----	-----	---	GGGGAAA
sogmel	-----	CCGTA	AGCCGCTT	-----	ACCAAAA	---	TACGGGTATA
sogmoj	GGC-----	---	AGCTGCTTAG	CAGCTCACAC	ACAAATATACA	ATATACCATA	TATAGATATA
sogper	-----	CCGCT	TTCCGCTT	---	---	---	---
sogpse	GTTGTTGTTG	TGGAA	AGCTGCTT	AC	AACACCGGCA	---	ACAAACCGT
sogsec	-----	TTCTACCT	G	CGATTACGG	---	---	GGATTTC
sogsim	-----	CCGTA	AGCCGCTT	---	ACCAAAA	---	ATAAGGGTATA
sogvir	-----	TGGCA	AGCAGCGCGG	CTTTGTCTAT	GCCTCTGCCT	---	CGCTCTGCCTC
sogwil	TGCAACCAATT	TTACT	AGTTTTCCCA	CTCTAGCCAC	ACAACAA	---	CAACAAC
sogyak	-----	TGGTA	AGCCGCTT	---	ACCAAAA	---	TGA

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sogana	TACCAA	----	----	----	----	----	TTG	CAATTTGTTG	CAACTC	----
sogere	CCCCAA	----	----	----	----	----	TG	GGTTCCCTATG	TAGACC	----
soggri	TACCGA	----	----	----	----	----	----	AAGG	CGAACC	AA
sogmel	CCCCAA	----	----	----	----	----	TGGATGCCGTG	CCCATCTATA	TAGACC	----
sogmoj	TATAGATCTC	TCTCTCTATA	TATATATTTA	TTTATTTGTA	TATATTTATG	TATATTTTAA	TATATTTTAA	TGGATCAGAC	----	----
sogper	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
sogpse	AGCAAG	-----	-----	-----	-----	-----	-----	AGTC	CAGGCA	----
sogsec	CCCGCACC	-----	-----	-----	A	TACACGGCCA	TATAGCCATA	TAGACC	----	----
sogsim	ACCAAA	-----	-----	-----	-----	-----	TG	GATGCCCTATA	TAGACC	----
sogvir	TGCTAA	-----	-----	-----	-----	-----	GCTGCTTAG	CAGCTCGACC	CAGGCC	----
sogwil	AACAAA	-----	-----	-----	-----	-----	-----	CAATTTGTTT	TAAACC	----
sogyak	CCCCAA	-----	-----	-----	-----	-----	ACG	GATTCCTATA	TAGACCATAT	----

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

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