



|           |                     |                     |                     |                     |                     |   |
|-----------|---------------------|---------------------|---------------------|---------------------|---------------------|---|
| sogSana   | - - - - -           | - - - - -           | T C C C C G A G - T | T C A G T G         | - - - - -           | A C A G G T                             |
| C_sogSere | G A T G G C C A     | - - - - -           | G A                 | - - - - -           | G                   | A A C A G G T                           |
| C_sogSgri | T T T G G T T T G G | T T T G G T T T     | G A                 | T T C C C G G T     | - - - - -           | - C A G G T                             |
| sogSmel   | G A T G G A C A     | - - - - -           | G A                 | T T C C C G G G T T | T C A G C G         | - G A A C A G G T                       |
| sogSmoj   | - - - - -           | - - - - -           | - - - - -           | - - - - -           | - - - - -           | - - - - -                               |
| sogSper   | C A C G G A C A     | - - - - -           | G A                 | C A G A C A G A     | - - - - -           | G A A C A G G T                         |
| sogSpse   | G A C A G A C A     | - - - - -           | G A                 | C A G A C A G A     | - - - - -           | G A A C A G G T                         |
| sogSsec   | G A T C G G G A     | - - - - -           | G A                 | T C G A C G G G T T | T C A G C G         | - G A A C A G G T                       |
| sogSsim   | G A T C G G G A     | - - - - -           | G A                 | T C G A C G G G T T | T C A G C G         | - G A A C A G G T                       |
| C_sogSvir | C A A C G T T G A G | G A C A T T G T G G | G T G G C A G G T A | A A A G G T G G C   | A C G G             | - A A A C A A C G                       |
| sogSwil   | T A T T A T G C A A | A A T G A T T - A T | T C A A C G G A A T | C C A G T C A A G A | A T T C G T A T T A | A A C A G G T A A C A A A A A T T C G T |
| sogSyak   | C A T C G A C A G G | C T C T C C A G G A | T C G T C G A G - T | T C A G A G         | - - - - -           | G A A C A G G T                         |

|           |            |           |            |     |              |       |           |       |        |             |     |     |
|-----------|------------|-----------|------------|-----|--------------|-------|-----------|-------|--------|-------------|-----|-----|
| sogSana   | ---        | ---       | ---        | AG  | TCTAAGGAT    | -     | GTGGGAATT | CCCA  | GCATA  | TA          | --- | --- |
| C_sogSere | ---        | ---       | ---        | AG  | GATGGCTGG    | ---   | GCGGAAATT | CCCA  | CCATA  | TATAGTAGAT  | --- | --- |
| C_sogSgri | ---        | ---       | ---        | AA  | AGCGGGGAAA   | TACAT | AAATTT    | CCCA  | TCACA  | TG          | --- | --- |
| sogSmel   | ---        | ---       | ---        | AG  | GCTGGTCGA    | -     | TGGGAAATT | CCCA  | CCATA  | CA          | --- | --- |
| sogSmoj   | ---        | ---       | ---        | --- | ---          | ---   | CGTAAATT  | CCCAG | GCCATA | GGAGCAG     | --- | --- |
| sogSper   | ---        | ---       | ---        | AG  | GATGGGAAT    | -     | ACGGAAATT | CCCA  | CCACA  | TAAAAACCGAA | --- | --- |
| sogSpse   | ---        | ---       | ---        | AG  | GATGGGAAT    | -     | ACGGAAATT | CCCA  | CCACA  | TAAAAACCGAA | --- | --- |
| sogSsec   | ---        | ---       | ---        | AG  | GCTGGTCAA    | ---   | GCGGAAATT | CCCA  | CCATA  | CA          | --- | --- |
| sogSsim   | ---        | ---       | ---        | AG  | GCTGGTCGA    | ---   | GCGGAAATT | CCCA  | CCATA  | CA          | --- | --- |
| C_sogSvir | ---        | ---       | ---        | AG  | GCAACGGAAA   | CACGT | AAATTT    | CCCA  | TAATG  | TGAGCGGATC  | --- | --- |
| sogSwil   | AAGGCACACT | GATAAGGCC | AAATGGAAAA | AG  | AAAAAAAAAAAA | AAACG | AAATTT    | CCCA  | TCATA  | TG          | --- | --- |
| sogSyak   | ---        | ---       | ---        | AG  | GATGTTCGA    | -     | GCGGAAATT | CCCA  | CCATA  | TA          | --- | --- |

|           |            |            |            |             |    |            |  |            |            |
|-----------|------------|------------|------------|-------------|----|------------|--|------------|------------|
| sogSana   | TCTGCCATAT | CTAATATATG | ACACGGCG   |             |    | AAAGTGTG   |  | AAAAACAG   | ATGCCTTGTC |
| C_sogSere | ACATCTATGT | GGGTATAGT  | GCCATCGA   |             | CA | GCAGGTGCG  |  | AAAAACAG   | AT         |
| C_sogSgri |            | GAACATAGA  | AACAACAA   |             | CA | GACAAATGTG |  | CGAAAAACAG | AT         |
| sogSmel   | CATGT      | GGCTATAAT  | GCCAACGG   |             | CA | TCGAGGTGCG |  | AAAAACAG   | AT         |
| sogSmoj   |            | GATCATAAA  | CACAGCAATT | TAATACAAAG  |    | GCAGAGCAAG |  | CGCTAAACAG | AT         |
| sogSper   | TCAGGCG    |            | AAACAG     |             |    | AAAGTGTG   |  | AAAAACAG   | AT         |
| sogSpse   | TCAGGCG    |            | AAACAG     |             |    | AAAGTGTG   |  | AAAAACAG   | AT         |
| sogSsec   |            | CATGT      | GGCTATAAT  |             | CA | GCAGGTGCG  |  | AAAAACAG   | AT         |
| sogSsim   |            | CATGT      | GGCTATAAT  |             | CA | GCAGGTGCG  |  | AAAAACAG   | AT         |
| C_sogSvir | ATAAACAC   | CAACACAAC  | ACAAACAAAC | ACAGCCAAAGC |    | AGAAAGTGTG |  | AAAAACAG   | AT         |
| sogSwil   |            |            |            |             |    | AGAGACG    |  | TAAGCAG    | AT         |
| sogSyak   | GTGCATGT   |            | ACGT       |             | AG | ACGAAGTGTG |  | AAAAACAG   | AT         |

|           |            |            |            |            |        |        |         |         |            |      |     |
|-----------|------------|------------|------------|------------|--------|--------|---------|---------|------------|------|-----|
| sogSana   | CTTGTATGAG | GCGATCGGGC | ---        | ---        | GCCTC  | ATAAAA | -GGG    | GCGGCAG | ---        | GATA | --- |
| C_sogSere | ---        | GC         | ---        | ---        | AGCCTC | ATAAAA | -GGG    | GCG     | -CA        | GATA | --- |
| C_sogSgri | ---GCAATG  | GCGATGGCA  | ---        | ---        | TGCCTC | ATAAAA | -GGG    | GCACTCA | ---        | GATA | --- |
| sogSmel   | ---        | GC         | ---        | ---        | AGCCTC | ATAAAA | -GGG    | GCG     | -CA        | GATA | --- |
| sogSmoj   | ---        | GC         | GATCTGTGGT | GCAGTGGCCC | ATAAAA | CGGG   | GCACACA | ---     | CACACACAGA | ---  | --- |
| sogSper   | ---        | GC         | ---        | ---        | AGCCTC | ATAAAA | -GGG    | GCG     | -CA        | GATA | --- |
| sogSpse   | ---        | GC         | ---        | ---        | AGCCTC | ATAAAA | -GGG    | GCG     | -CA        | GATA | --- |
| sogSsec   | ---        | GC         | ---        | ---        | AGCCTC | ATAAAA | -GGG    | GCG     | -CA        | GATA | --- |
| sogSsim   | ---        | GC         | ---        | ---        | AGCCTC | ATAAAA | -GGG    | GCG     | -CA        | GATA | --- |
| C_sogSvir | GTGTGCGGT  | GCGGTGCGGT | ACGGTGGGT  | GCGATGGCTC | ATAAAA | -GGG   | GCA     | CAAGA   | GATA       | ---  | --- |
| sogSwil   | ---GCCGATG | CTCATGCGGC | ---        | ---        | GACCTC | ATAAAA | -GGG    | GCA     | CAATT      | CA   | --- |
| sogSyak   | ---        | GC         | ---        | ---        | AGCCTC | ATAAAA | -GGG    | GCG     | -CA        | GATA | --- |

|           |            |           |            |            |            |            |             |            |
|-----------|------------|-----------|------------|------------|------------|------------|-------------|------------|
| sogSana   | ---        | AGCGCAGG  | ACGAGGCGAG | GT         | ---        | GCG        | TGGGAAAAGC  | CCAGGGTAGC |
| C_sogSere | ---        | AGG       | TCGCGGT    | T          | ---        | GCG        | TGGGAAAAGC  | CCATCC     |
| C_sogSgri | ---        | AGCGAAGA  | TGGG       | ---        | ---        | CCG        | TGGGAAAATC  | CCGGGC--CA |
| sogSmel   | ---        | AGG       | TCGCGGT    | T          | ---        | GCG        | TGGGAAAAGC  | CCATCCGACC |
| sogSmoj   | CGCAGACACA | GCGGCAGAG | CTGCCGOTGG | AC         | ---        | CG         | TGGGAAAAGC  | CCAGCGAGGC |
| sogSper   | ---        | AGCGATGG  | GCAATGTCGG | TCGTCAGTCG | TCGGTCGGCG | TGGGAAAAGC | CCAGCC--ACT |            |
| sogSpse   | ---        | AGCGATGG  | GCAATGTCGG | TCGTCGGTCG | TCGGTCGGCG | TGGGAAAAGC | CCAGCC--AAT |            |
| sogSsec   | ---        | AGG       | TCGCGGT    | T          | ---        | GCG        | TGGGAAAAGC  | CCATCCGACC |
| sogSsim   | ---        | AGG       | TCGCGGT    | T          | ---        | GCG        | TGGGAAAAGC  | CCATCCGACC |
| C_sogSvir | ---        | A         | GCGAGATTGG | GC         | ---        | CG         | TGGGAAAAGC  | CCA        |
| sogSwil   | ---        | ---       | ---        | ---        | ---        | GCG        | TGGGAAAAGC  | CCAAAC---  |
| sogSyak   | ---        | AGG       | TCGCGGT    | T          | ---        | GCG        | TGGGAAAAGC  | CCATCC---  |

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|           |             |             |            |             |            |            |             |
|-----------|-------------|-------------|------------|-------------|------------|------------|-------------|
| sogSana   | GAGGCGAGGA  | CGAACCTGTG  | CGGTGGC-G  | CATCATGGC   | GCCATAT    |            | TCCTGGCC    |
| C_sogSere | --GACCAGGA  | CGAACCACTG  | CGGTGGC-G  | CATCCCTGCC  | GCCAGGTCTC | AGATCAGACC | AGTGCTACCT  |
| C_sogSgri | AGCCCCAAGTG | TGGCGCAGGC  | AAGCAGGCAG | CATCCTTGAT  | GCCA       |            |             |
| sogSmel   | AGGACCAGGA  | CGAAGCAGTG  | CGGTGGC-G  | CATCAATTGCC | GCCATATCT  |            | ATTCCCTACCT |
| sogSmoj   | AGCA-----   | AGCG        | CAGCTAGC-G | AATGCAACCT  | GTAGTAC    |            |             |
| sogSper   | GGCAGGCGGG  | CGAACCTGTG  | CGGTGGC    | -----TTGGC  | GCAACA     |            | TCGGGATC    |
| sogSpse   | GGCAGGCGGG  | CGAACCTGTG  | CGGTGGC    | -----TTGGC  | GCAACA     |            | TCGGGACC    |
| sogSsec   | AGGACCAGGA  | CGAAGCAGTG  | CGGTGGC-G  | CATCATTTGCC | GCCATGTCT  |            | CTTCCTACCT  |
| sogSsim   | AGGACCAGGA  | CGAAGCAGTG  | CGGTGGC-G  | CATCATTTGCC | GCCATGTCT  |            | GTTCCTACCT  |
| C_sogSvir | -----       | AAAAACCTA   | CCGACGACAG | CAACCT      |            |            |             |
| sogSwil   | --AAGTCTGG  | CCAAACCTGTG | CGGTGGC-G  | CATATTGGTC  | CTTGTGCAAG | GACCAACCGA | CCAACCAACC  |
| sogSyak   | --GACCAGGA  | CGAAGCAGTG  | CGGTGGC-G  | CATCATCA    |            |            | TCCTACCT    |

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|           |            |            |             |             |           |         |           |            |
|-----------|------------|------------|-------------|-------------|-----------|---------|-----------|------------|
| sogSana   | GC-----    |            | ACATCC      | TTGT-GC     |           | AAGGACT | CTGGTGCAT | GAGGCAAAAA |
| C_sogSere | GGGTG----- | GCCAT      | GGCCACATCC  | TTGT-GCAAG  | GATAAGGAT |         |           |            |
| C_sogSgri | -----      |            | TCAT-TC     |             |           |         |           |            |
| sogSmel   | GGGTG----- | GCCAT      | GGCGATATCC  | TTGT-GC     |           | AAGGAT  |           |            |
| sogSmoj   | -----      |            | GGGTCTGTC   | TTGT-GC     |           | GATG    |           |            |
| sogSper   | TTGTGCAAGG | ACACGGCCAC | GGACATAGAC  | CCGA-AC     |           | CAGGGAC |           |            |
| sogSpse   | TTGTGCAAGG | ACACGGCCAC | GGACATAGAC  | CCGA-GC     |           | CAGGGAC |           |            |
| sogSsec   | GCGCG----- | GCCAT      | GGCGATATCC  | TTGT-GC     |           | AAGGAT  |           |            |
| sogSsim   | GCGCG----- | GCCAT      | GGCGATATCC  | TTGT-GC     |           | AAGGAT  |           |            |
| C_sogSvir | -----      | GTAGG      | GAACTGGATCC | TGTTCTGCTGG | ATGGATAAT |         |           |            |
| sogSwil   | AC-----    | CCAAC      | AGCCTAGAAT  | TTGAGACAAC  | GCAAAAAAG |         |           | TAAACG     |
| sogSyak   | GCATAGATGG | CCATTGCCAT | GGGCATATCC  | TTGT-GC     |           | AAGGAT  |           |            |

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|           |            |              |            |             |            |            |            |
|-----------|------------|--------------|------------|-------------|------------|------------|------------|
| sogSana   | AGAAGGTAGA | A-----       | AAGAGGAT   | CATAAAACGG  | TGTCG-C-TT | TGTTTATGCT | GCTTATTTAA |
| C_sogSere | -----AAGG  | A-----       | GCTGGGAT   | GTAAAAACGC  | TGTCG-CCTT | TGTTTATGCT | GCTTATTTAA |
| C_sogSgri | -----      |              | GACAGTGT   | CATAAAATCGC | AGTCGTCCTT | TGTTTATGCT | GCTTATTTAA |
| sogSmel   | -----AAGG  | A-----       | GCGGGGAT   | CATAAAACGC  | TGTCG-CTTT | TGTTTATGCT | GCTTATTTAA |
| sogSmoj   | -----      |              | GGCGGCGT   | CATAAAACGC  | AGTCGTCCTT | TGTTTATGCT | GCTTATTTAA |
| sogSper   | -CGAAAAAGG | A-----CCACGA | GTGAGGTGGT | CATAAAACGT  | TGTCG-CTTT | TGTTTATGCT | GCTTATTTAA |
| sogSpse   | -CGAAAAAGG | A-----CCACGA | GTGAGGTGGT | CATAAAACGT  | TGTCG-CTTT | TGTTTATGCT | GCTTATTTAA |
| sogSsec   | -----AAGG  | A-----       | GCGGGGAT   | CATAAAACGC  | TGTCG-CTTT | TGTTTATGCT | GCTTATTTAA |
| sogSsim   | -----AAGG  | A-----       | GCGGGGAT   | CATAAAACGC  | TGTCG-CTTT | TGTTTATGCT | GCTTATTTAA |
| C_sogSvir | -----      |              | GGCGGCGT   | CATAAAACGC  | AGTCGTCCTT | TGTTTATGCT | GCTTATTTAA |
| sogSwil   | GCGAAAAAAG | GTTCCAAACAT  | TTTGAGAGGT | CATAAAATGT  | GATTG-CTTT | TGTTTATGCT | GCTTATTTAA |
| sogSyak   | -----AAGG  | A-----       | GCTGGGAT   | CATAAAACGC  | TGTCG-CTTT | TGTTTATGCT | GCTTATTTAA |

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|           |            |            |              |             |            |             |            |             |
|-----------|------------|------------|--------------|-------------|------------|-------------|------------|-------------|
| sogSana   | ATTGGCTTCT | TGGC-GGGCG | TTGTTC       |             | GACC       | TGGTTTCCTGG | GATATACCCA | TAGACATGAG  |
| C_sogSere | ATTGGCTTCT | TGGC-GGGC  | GTTC         |             | GACC       | TG-----TT   | GCTAGTCCCA | -----ATCCG  |
| C_sogSgri | ATTGGCTTCT | TGGC-GGGC  | GTTC         |             | GA         | -----GT     | GCGAATCGCG | -----AAACAT |
| sogSmel   | ATTGGCTTCT | TGGC-GGGC  | GTTC         |             | AACC       | TG-----GT   | GCTAGTCCCA | -----ATCCG  |
| sogSmoj   | ATTGGCTTCT | TGGCGGGC   | GTTC         |             | AA         | -----GC     | GCAAAACCAA | -----AAACCA |
| sogSper   | ATTGGCTTCT | TGGC-GGGC  | GTTC         |             | GAGC       | CG-----CCGC | GATAGCCAAA | TCCGAGTCCG  |
| sogSpse   | ATTGGCTTCT | TGGC-GGGC  | GTTC         |             | GAGC       | CG-----CCGC | GATAGCCAAA | TCCGAGTCCA  |
| sogSsec   | ATTGGCTTCT | TGGC-GGGC  | GTTC         |             | GACC       | TG-----GT   | GCTAGTCCCA | -----ATCCG  |
| sogSsim   | ATTGGCTTCT | TGGC-GGGC  | GTTC         |             | GACC       | TG-----GT   | GCTAGTCCCA | -----ATCCG  |
| C_sogSvir | ATTGGCTTCT | TGGC-GGGC  | GTTC         |             |            | -----GCGG   | CCAAAACCAA | -----AACCAG |
| sogSwil   | ATTGGCTTCT | TGGCGCGAC  | -----CTGCAAA | AACCGAAAAAC | CGAAAAATTT | GAGAACCCTGA | AAAAGAATTT |             |
| sogSyak   | ATTGGCTTCT | TGGC-GGGC  | GTTC         |             | GACC       | TGGTCTGTGT  | TCTAGTCCCA | -----ATCCG  |

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|           |             |             |            |             |             |            |            |            |
|-----------|-------------|-------------|------------|-------------|-------------|------------|------------|------------|
| sogSana   | CACCTCAACTA | -----CCTG   | TAC        |             |             |            |            | CTGT       |
| C_sogSere | CACACCAATC  | -----CACA   |            |             |             |            |            | GC         |
| C_sogSgri | TCTTTTCAATC | GTTCAGCAAG  | ACCAAAACCA | ACAGCGAAAC  | CTAAGACCGA  | GCTAGAAATA | AATGCAACGC |            |
| sogSmel   | AATCCCAATT  | -----CCAA   | TCCGTATACC | CGTAT--ATC  | CA          |            | ATGC       |            |
| sogSmoj   | AAAACCGAAA  | GC-----CGAA | AACCCAGGCG | CAACTTTGAC  | CTGTCTCTGGG | CCAGGACCTG | CAGCTAGCCT |            |
| sogSper   | TGCTCGGAT   | -----       | CCGAGGCGG  | GGACCTGGAC  | CAGGACCTGG  | ACCTGGATCG | ACATCGACCT |            |
| sogSpse   | TGATCGGATC  | -----CGAG   | GCCGAGGCGG | GGACCTGGAC  | CAGGACCTGG  | ACCTGGATCG | ACATCGACCT |            |
| sogSsec   | AATTTCCAATC | -----CACA   | TCC        | C-ATC       | CA          |            | ATGC       |            |
| sogSsim   | AATTTCCAATC | -----CCAA   | TCCACATCCC | -----ATC    | CA          |            | ATGA       |            |
| C_sogSvir | GACGCAGATT  | GAGAGAGAGA  | GAAAGAGAGA | GAGAGGGAGA  | CGGCAACCTA  | ACCGATCTTA | ACTTTAACCT |            |
| sogSwil   | GAACCCGAAT  | CTGAACCAAG  | ACCTGAATAA | TCTGACAACC  | CACAACCCG   |            |            |            |
| sogSyak   | AATCCCAATC  | -----CCAA   | TCTCAATCCC | AATTTCCAATC | CACGTCCC    |            |            | ACATCCATGC |



|           |              |            |            |             |            |            |             |            |
|-----------|--------------|------------|------------|-------------|------------|------------|-------------|------------|
| sogSana   | CTCTTGGGCT   | TGGGTTTTTC | GGGT---TGG | CATA---AC   | GTCATCTGGT | C          | ---CAGG---  |            |
| C_sogSere | ---TCTTGGTTT | TGGGTTTTTC | CGGC       | CACATCTGC   | GTCATCTGGT | GGCACA-GGA | CGCAGG---   |            |
| C_sogSgri | ---A         | TGGGTTTTTA | CCACGTAGC  | AAAAACGTGC  | ATCATCTGTT | G          | ---CCGGCGTT |            |
| sogSmel   | ---TTTGATTT  | TGGGTTTTTC | CGGC       | GCATCTGTG   | GTCATCTGGT | GGCA       | ---CAGG---  |            |
| sogSmoj   | ---          | ---        | ---        | ---         | ---        | ---        | ---         |            |
| sogSper   | ---          | T          | CGGGTTTTTC | CTCGGTGCCG  | TGAAACGTGC | GTCATCTGGT | GGTGT       | ---CAGG--- |
| sogSpse   | ---          | T          | CGGGTTTTTC | CTCGGTGCCG  | CGAAACGTGC | GTCATCTGGT | GGTGG       | ---CAGG--- |
| sogSsec   | GGTTTGGGTT   | TGGGTTTTTC | CGGC       | CGCATCTGC   | GTCATCTGGT | GGCA       | ---CAGG---  |            |
| sogSsim   | ---          | T          | TTTGTTTTTC | CATGTCTAGC  | ---TCTGGC  | AATAAGTAGA | TG          | CAAGATTG   |
| C_sogSvir | TGTGTATGTG   | TGTGTGTGCA | CGGGCCAGC  | CAAAACGTGC  | GTCATCTGTT | GCTC       | ---CTGGACGC |            |
| sogSwil   | ---          | -GGGTTTTTC | CCAA       | ---         | TGT        | GTCATCTGGT | AATGCGGTGT  | GGTTGCACTC |
| sogSyak   | ---          | T          | CGGGTTTTTC | CCACATCTGTG | CACATCTGTG | GTCATCTGGT | GGCA        | ---CAGG--- |

|           |            |             |            |            |             |             |             |     |
|-----------|------------|-------------|------------|------------|-------------|-------------|-------------|-----|
| sogSana   | ---        | ACTCGGCAGG  | ACTGCTGGC  | ACTTGCCCT  | TG          | ---         | ---         | --- |
| C_sogSere | ---        | ACGCACCTTGC | CCCT--GCC  | AGTTGGCCCT | TG          | ---         | ---         | --- |
| C_sogSgri | GCTGTTGCTG | TTGCACCTTGC | AACGGGAATC | AAATGAAAGG | AA          | ---         | ---         | --- |
| sogSmel   | ---        | ACGCACCTTGC | CCCT--GTC  | AGTTGGTCCG | TG          | ---         | ---         | --- |
| sogSmoj   | ---        | ---         | ---        | ---        | ---         | ---         | ---         | --- |
| sogSper   | ACTTCTTGC  | ACTTGCTTGC  | CCCG--     | ---        | T TG        | ---         | ---         | --- |
| sogSpse   | ACTTGTTC   | ACTTGCTTGC  | CCCG--     | ---        | T TG        | ---         | ---         | --- |
| sogSsec   | ---        | ACGCACCTTGC | CCCT--GCC  | AGTTGGGCCG | TG          | ---         | ---         | --- |
| sogSsim   | GAATGAATAA | ATGCATTTGG  | CTATGAGTC  | ATATGG     | ---         | ---         | ---         | --- |
| C_sogSvir | GAC        | CGCGCACTTGG | ---        | AAC        | GAACGAACCT  | GG          | ---         | --- |
| sogSwil   | TCTATCTCTT | TTTCGCTCTC  | TCCTACTGTC | TCCTTCTCTC | TGTTGTGTGTG | TGTTGTGTGTG | TGTTGTCTTGT | --- |
| sogSyak   | ---        | ACGCACCTTGC | CCCT--GCC  | AGTTGGTCCT | TG          | ---         | ---         | --- |

|           |     |        |            |     |     |       |      |            |     |             |      |         |          |     |
|-----------|-----|--------|------------|-----|-----|-------|------|------------|-----|-------------|------|---------|----------|-----|
| sogSana   | --- | C      | TCTGCTGC   | G   | TC  | ---   | CAGG | ATTACGGC   | --- | AG          | CACC | TTT     | ---      | --- |
| C_sogSere | --- | C      | ACCCCTTG   | G   | TC  | ---   | CAGG | ATTAC      | --- | GA          | CACC | TTT     | ---      | --- |
| C_sogSgri | --- | C      | ACCATCGTTG | --- | CC  | CAGAG | CAGG | ATTAC      | --- | GA          | ---  | C       | ---      | --- |
| sogSmel   | --- | C      | ACCCCTTG   | G   | TC  | ---   | CAGG | ATTAC      | --- | GA          | CACC | TTT     | ---      | --- |
| sogSmoj   | --- | ---    | ---        | --- | --- | ---   | ---  | ---        | --- | ---         | ---  | ---     | ---      | --- |
| sogSper   | --- | C      | ACCCC      | G   | TC  | ---   | CAGG | ATTACGACGG | --- | GCCAGCCACG  | TTT  | ---     | ---      | --- |
| sogSpse   | --- | C      | AGCCC      | G   | TC  | ---   | CAGG | ATTACGACGG | --- | GCCAAACCACG | TTT  | ---     | ---      | --- |
| sogSsec   | --- | C      | ACCCCTTG   | G   | TC  | ---   | CAGG | ATTAC      | --- | GA          | CACC | TTT     | ---      | --- |
| sogSsim   | --- | ---    | ---        | --- | TT  | ---   | CGGG | ATTGC      | --- | AA          | ---  | ---     | ---      | --- |
| C_sogSvir | --- | ---    | ---        | G   | --- | ---   | CAGG | ATTAC      | --- | ---         | ---  | ---     | ---      | --- |
| sogSwil   | C   | AAAAGT | CAC        | --- | CT  | ---   | CAAA | CTTA       | --- | AGCCACA     | TTT  | CAATTAC | AAGAAATG | CC  |
| sogSyak   | --- | C      | ACCCCTGG   | TG  | CC  | ---   | TAGG | ATTACGACAC | --- | CTTGA       | CACC | TTT     | ---      | --- |

|           |            |            |            |            |           |            |            |
|-----------|------------|------------|------------|------------|-----------|------------|------------|
| sogSana   | -----      | -----      | -----      | -----      | -----     | TGTGGAAGT  | G-----     |
| C_sogSere | -----      | -----      | -----      | -----      | -----     | TGTGGAAGT  | GCTG-----  |
| C_sogSgri | -----      | -----      | -----      | -----      | -----     | TACGACAGT  | G-----     |
| sogSmel   | -----      | -----      | -----      | -----      | -----     | TGTGGAAGT  | GCTG-----  |
| sogSmoj   | -----      | -----      | -----      | -----      | -----     | -----      | -----      |
| sogSper   | -----      | -----      | -----      | -----      | -----     | TCTGGAAGT  | GGAA-----  |
| sogSpse   | -----      | -----      | -----      | -----      | -----     | TCTGGAAGT  | GGAA-----  |
| sogSsec   | -----      | -----      | -----      | -----      | -----     | TGTGGAAGT  | GCTG-----  |
| sogSsim   | -----      | -----      | -----      | -----      | -----     | ATGGAAT    | GGT-----   |
| C_sogSvir | -----      | -----      | -----      | -----      | -----     | -----      | -----      |
| sogSwil   | AAATCTATAA | AATGAACTCA | AAGCTGTTGA | AAAAAAATTG | ATTGATTAT | ATGCAGAGTT | GGTGGGGAAA |
| sogSyak   | -----      | -----      | -----      | -----      | -----     | TGTGGAAGT  | GCTG-----  |

|           |            |            |           |           |           |            |
|-----------|------------|------------|-----------|-----------|-----------|------------|
| sogSana   | -----      | -----      | -----     | -----     | -----     | -----      |
| C_sogSere | -----      | -----      | -----     | -----     | -----     | -----      |
| C_sogSgri | -----      | -----      | -----     | -----     | -----     | -----      |
| sogSmel   | -----      | -----      | -----     | -----     | -----     | -----      |
| sogSmoj   | -----      | -----      | -----     | -----     | -----     | -----      |
| sogSper   | -----      | -----      | -----     | -----     | -----     | -----      |
| sogSpse   | -----      | -----      | -----     | -----     | -----     | -----      |
| sogSsec   | -----      | -----      | -----     | -----     | -----     | -----      |
| sogSsim   | -----      | -----      | -----     | -----     | -----     | -----      |
| C_sogSvir | -----      | -----      | -----     | -----     | -----     | -----      |
| sogSwil   | TATATAAATA | TATATATATA | TGTATTTCG | TCATTGCAT | TGGCATAAT | ACGTGGCCAT |
| sogSyak   | -----      | -----      | -----     | -----     | -----     | -----      |

|           |            |            |            |            |            |            |            |      |
|-----------|------------|------------|------------|------------|------------|------------|------------|------|
| sogSana   | ----       | ----       | ----       | ----       | ----       | ----       | ----       | ---- |
| C_sogSere | ----       | -CATCGGAGA | ATCACCACGA | CGACCTCTCG | ACCTGCTCCT | CCTCCTACTC | ----       | ---- |
| C_sogSgri | ----       | ----       | ----       | ----       | ----       | ----       | ----       | ---- |
| sogSmel   | ----       | -AATCGCAGA | ATCGCAACGA | TGACCTCTCA | ACCAACTTCT | CCTCCTTCTC | ----       | ---- |
| sogSmoj   | ----       | ----       | ----       | ----       | ----       | ----       | ----       | ---- |
| sogSper   | ----       | -TACCAGAGC | GGCCAGGGAC | CGGAGCCAGA | GCCAGAGCCA | GAGCCAGGGC | CGAGGGGACC | ---- |
| sogSpse   | ----       | -TACCAGAGC | GGCCAGGGAC | C          | ----       | ----       | ----       | ---- |
| sogSsec   | ----       | -AATCGCAGA | ATCGC-ACGA | TGACCTCTCA | GCAACTCCTT | CCTCATCCTC | ----       | ---- |
| sogSsim   | ----       | -ATGGA     | ATGGTATTGG | GAAATTTTCA | AACAAC     | ----       | ----       | ---- |
| C_sogSvir | ----       | ----       | ----       | ----       | ----       | ----       | ----       | ---- |
| sogSwil   | TGATTTATTT | CAATCGTTCA | ACAATGTTGA | TGATGATGAT | TAAATGCCTT | GGTGAATGTC | AATTGTCGCC | ---- |
| sogSyak   | ----       | -AATCGGAGA | ACC--ACGA  | CGACCTCTCA | ACCTACACCC | AATCCTCCTC | ----       | ---- |

|           |           |
|-----------|-----------|
| sogSana   | -----     |
| C_sogSere | -----     |
| C_sogSgri | -----     |
| sogSmel   | -----     |
| sogSmoj   | -----     |
| sogSper   | ATAGCCATA |
| sogSpse   | -----     |
| sogSsec   | -----     |
| sogSsim   | -----     |
| C_sogSvir | -----     |
| sogSwil   | ATATCAACT |
| sogSyak   | -----     |