

```
1
vndana  -----  -----  C  GGAOTGGCCA  GAAACGAAGG  AAACCCCAAT  CGCCCAGGAA  CATGTGTGCA
vndere  -----  -----  -GTAGGTGA  GAGCCA-GGG  AAACCCCAAT  CG-GCAGCGA  CATGTGTACG
vndgri  -----  -----  -ATAGGTGA  GTGGCATGGG  AAACCCCAAC  CT---GGCAA  CATGTGTGCA
vndmel  -----  -----  -GTAGGTGA  GAGCCA-GGG  AAACCCCAAT  CG-GGAATGA  CATGTGTACG
vndmoj  -----  -----  -----  -----  -----  -----  -----
vndper  GTCCGTGTGG  AGCATTGGGA  GGGTATGTGA  TAAAC-GGG  ACACTC-----  A  AATGAATGC-
vndpse  -----  -----  -----  -GTCA-GGG  AAACTCCAAT  GACGGGCCAA  CATGTGTGCG
vndsec  -----  -----  -GTAGGTGA  GAGCCA-GGG  AAACCCCAAT  CG-GGAACGA  CATGTGTACG
vndsim  -----  -----  -TAGGTGA  GAGCCA-GGG  AAACCCCAAT  CG-GGAACGA  CATGTGTACG
vndvir  -----  -----  -----  -TGA-CTGCA-GGG  AAACCCCAAC  CTGGC-----  AA  CATGTGTGCA
vndwil  -----  -----  -CTCGATGT  GTGTGGTGA  TA-----GGG  AAACCCCAAC  CATGTGTGCA
vndyak  -----  -----  -TAGGTGA  GAGCCA-GGG  AAACCCCAAT  CG-GCAGCGA  CATGTGTACG
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71
vndana  GCAGACTCTG  ACTCGCA-----  -----  CA-----  GGA  CA-----  -----  TC  TGAAGGATCT
vndere  GCAGACT-----  -----  -----  CG-----  GGA  CT-----  -----  C  AGATGCCG
vndgri  GCAGACACGA  GACGGCA-----  -----  CA-----  GAA  CCAGCACCAG  CAACAACAAC  ACAAGACG
vndmel  ACAGACA-----  -----  -----  TG-----  GGA  CT-----  -----  C  AGATGCCCT
vndmoj  -----  -----  -----  -----  -----  -----  -----  -----  -----
vndper  TCAGATTGAT  GCTTCGAT-----  -----  TG-----  AGG  CT-----  -----  IT  GAATGAATGG
vndpse  GCAGACAGCA  GAGGACTCGG  TGCAGATTG  AGACACCGGG  CTGACACTGC  CGCTGACGAC  AGGGAAGA
vndsec  GCAGACA-----  -----  -----  CG-----  GGA  CT-----  -----  C  AGATGCCCT
vndsim  GCAGACA-----  -----  -----  CG-----  GGA  CT-----  -----  C  AGATGCCCT
vndvir  GCAGACGA-----  -----  -----  CA-----  GCA  TCAGCAACAG  CAACAGTAAC  AGCAGCGG
vndwil  ACAGACGACG  GCGACGA-----  -----  TA  ACGACGAGGA  CG-ATGAGGA  CGTTGAGGAA  AACTGTGAA
vndyak  GCAGACACAG  ATGCCTCGGG  ACAGGACTCA  -----  GGA  CT-----  -----  C  AGGACTC
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141
vndana  TTTCGAGATA  TTC-----  -----  T  GGCGTCACAC  TGTC-----  -----  -----
vndere  TCGAGA  TAC-----  -----  T  GGCGTCACAC  TGTC-----  -----  -----
vndgri  CAAAA-----  -----  -----  C  GGCGACACAC  TGTC-----  -----  -----
vndmel  TCGAGA  TAC-----  -----  T  GGCGTCACAC  TGTC-----  -----  -----
vndmoj  -----  -----  -----  -----  -----  -----  -----  -----
vndper  CTATTTGCGT  TGC-----  -----  TTCT  ATGTGATCC  TGTCATCTTT  AAACATGCAGC  TTCATGCCCA
vndpse  TGCAGA  CGA-----  -----  C  GACGTACACAC  TGTC-----  -----  -----
vndsec  TCGAGA  TAC-----  -----  T  GGCGTCACAC  TGTC-----  -----  -----
vndsim  TCGAGA  TAC-----  -----  T  GGCGTCACAC  TGTC-----  -----  -----
vndvir  CGACGT  GGA-----  -----  C  GGCGTCACAC  TGTC-----  -----  -----
vndwil  CTGTCTGAAGA  TGACGCAATT  GGCATTTCGC  GGCGTCACAC  TGTC-----  -----  -----
vndyak  -----  TGC-----  -----  T  GGCGTCACAC  TGTC-----  -----  -----
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211
vndana  TG-----  -----  -----  GCCAAAGA  AGGGAATTCC  GCACAGGA-C  AACGG-GGA  ATGCCC-----
vndere  TG-----  -----  -----  GC-AA  TGGGATTTCC  GCCCAGGA-G  GACGG-GGA  ATGCCC-----
vndgri  TGGCCCGAA  GGTGGACGA  GTGC-AA  AGGGAATTCC  GCTCAGAT-A  TGCGG-GGA  ATGCCC-----
vndmel  TG-----  -----  -----  GC-AA  TGGGATTTCC  GCTCAGGA-G  GACGG-GGA  ATGCCC-----
vndmoj  -----  -----  -----  -----  -----  -----  -----  -----
vndper  TTGCTTCTAC  ATCCG-----  -----  GTATGGGT  ATGGGTATCG  GTATATCATG  AATGGCCGGA  AGGTCCAACA
vndpse  TG-----  -----  -----  GC-GA  AGGGAATTCC  CTCGGAGA-A  AAACA-TGT  GTCTCC-----
vndsec  TG-----  -----  -----  GC-AA  TGGGATTTCC  GCTCAGGA-G  GACGG-GGA  ATGCCC-----
vndsim  TG-----  -----  -----  GC-AA  TGGGATTTCC  GCTCAGGA-G  GACGG-GGA  ATGCCC-----
vndvir  TGGTCCAAG  GCGGGGACGA  GTGC-AA  AGGGAATTCC  GCTCAGAC-A  TGCGG-GGA  ATGCCC-----
vndwil  TGTCTGTGC  GCTCTGTAGG  GC-AAAT  TGGGATTTCC  GTTAGACCT  GGC GG-GGA  ATGCCC-----
vndyak  TG-----  -----  -----  GC-AA  TGGGATTTCC  GCACGGGA-G  GACGG-GGA  ATGCCC-----
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281
vndana  GGTCTTGTC  CACTGTGTCC  TGTGTACCGT  GTCCGTGTG  TGTGATATCC  TGG-CGTG-----  GG
vndere  -----  GTGTGGCC-----  -----  TGG-----  CCA  CAG-CGTG-----  GG
vndgri  -----  CGCGTCC  TGA-----  -----  TGT-----  GGACCT  GAGCGCGTG-----  GG
vndmel  -----  GTGTAGCC-----  -----  TGT-----  CCA  TAG-CGTG-----  GG
vndmoj  -----  -----  -----  -----  -----  -----  -----  -----
vndper  AAGGCTTTAA  CACTGTGGGT  CGAATACAGC  CTGTCTTACC  GGTCTACCTG  TGCTACCTGC  CGATGCCCTG
vndpse  GTC-----  TTTGTCC-----  -----  TATC-----  GTACCAACGC  TGG-CGTG-----  GG
vndsec  -----  GTGTAGCC-----  -----  TGT-----  CCA  TAG-CGTG-----  GG
vndsim  -----  GTGTAGCC-----  -----  TGT-----  CCA  TAG-CGTG-----  GG
vndvir  -----  CGCGTCC  TGA-----  -----  TGG-----  ACCT  GAGCGCGTG-----  GG
vndwil  -----  TGGTC-----  TGGTGGTGGT  CT-----  TGGT  CCTGGGTCCCT  GGGTCCGTG-----  GG
vndyak  -----  GTGTGGCC-----  -----  TGG-----  CCA  TAG-CGTG-----  GG
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351

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|--------|-------------|-------------|----|------------|-------------|-------------|------------|------------|
| vndana | AAATTTCTCAA | GACG---- | AG | AGTTGGGAAA | ACTC----- | GAGGTGGAAA | AACCGGAAGC | GATCTTCAGG |
| vndere | AAATTCGCGA | GTCTGCGGGT | | CTTTGGGAAA | ACTC----- | GAAATGGGAA | AACCGGAAGC | AAGC----- |
| vndgri | AAATTCGCGC | GCAC----- | | ATTGGGAAA | ATTC----- | AGCATGGAAA | AACCGGAAGC | AAGA----- |
| vndmel | AAATTCGCGA | GTTCG--GGGT | | CTTCGGGAAA | ACTC----- | GAAATGGGAA | AACCGGAAGC | AAGC----- |
| vndmoj | ----- | ----- | T | ATTAGTGGAA | AATC----- | ----- | ----- | ----- |
| vndper | ACTTTTCGAG | ATTG--CGAT | | TTTTCGAGA | ----- | ----- | GGGAGC | GAGC----- |
| vndpse | AAATTTT | ----- | | GGAAA | ATTC----- | AAATCTGGAAA | AACCGGAAGC | AGCGCGCGAA |
| vndsec | AAATTCGCGA | GTTCG--GGGT | | CTTCGGGAAA | ACTC----- | GAAATGGGAA | AACCGGAAGC | AAGC----- |
| vndsim | AAATTCGCGA | GTTCG--GGGT | | CTTCGGGAAA | ACTC----- | GAAATGGGAA | AACCGGAAGC | AAGC----- |
| vndvir | AAATTCGCGC | GCAC----- | A | ATTGGGAAA | ACTC----- | AGCGTGGAAA | AACCGGAAGC | GAGA----- |
| vndwil | AAATTCGCAT | GCAC----- | | ATTGGGAAA | ATTT--GTGTG | TGTGCGGAAA | AACCGGAAGA | AGAC----- |
| vndyak | AAATTCGCGA | GTTCG--GGAT | | CTTCGGGAAA | ACTCGAAATG | GAAATGGGAA | AACCGGAAGC | GAGC----- |

421

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|--------|------------|-----------|-----------|--------|------------|-------------|------------|------------|
| vndana | AGAGACAAGA | AGGACTTGC | ----- | ----- | GCCAAACACA | TGTGCCAGGC | AGTGCCAGAC | CTGTTTCGAC |
| vndere | ----- | AA | GCTTGC | ----- | GCCAAACATG | TG | GCACGAC | CTGTTTCGCC |
| vndgri | ----- | ACGCTT | TTTACTTGC | ----- | GCCAAACATG | TG | GC | ----- |
| vndmel | ----- | AA | ACTTGC | ----- | GCCAAACATG | TG | GCACGAC | CTGTTTCGAC |
| vndmoj | ----- | AA | ATTTCG | ----- | ----- | ----- | ATTAGCC | CTGGCTTAGC |
| vndper | ----- | GA | ----- | ACTATC | ----- | TGAGACATT | GGGATCT | ATCTGAT |
| vndpse | GAA | ----- | ACTTGC | ----- | GCCAAACATG | TG | GCACGAC | CTGAGCCG-- |
| vndsec | ----- | AA | ACTTGC | ----- | GCCAAACATG | TG | GCACGAC | CTGTTTCGAC |
| vndsim | ----- | AA | ACTTGC | ----- | GCCAAACATG | TG | GCACGAC | CTGTTTCGAC |
| vndvir | ----- | GCGCTT | TTTACTTGC | ----- | GCCAAACATG | TGGCCGAAAA | ATGGTTAGAC | CTG----- |
| vndwil | ----- | AAAAAGC | GAAACTTGC | ----- | CCAGCAAAAT | AGCCAAACACA | TGGCC | GTCCAAC |
| vndyak | ----- | AA | ACTTGC | ----- | GCCAAACATG | TG | GCACGAC | CTGTTTCGCC |

491

| | | | | | | | | |
|--------|------------|------------|------------|------------|-------------|-------------|------------|------------|
| vndana | CT | ----- | GCCACCTG | ACCCTAGCAA | GGAC--CCTCG | CCCTGACCTT | CAC--TGACC | CTCAG----- |
| vndere | C | ----- | TAAAGAG | TCCCTACTG | ----- | ACCTG | TGCTGACCTG | CCC--TGACC |
| vndgri | ----- | ----- | TGAAAAA | TGTTAACGT | ----- | TTACTGCTAG | TGCTAGCCTG | GCC--AAAAC |
| vndmel | CC | ----- | GTAAAGAG | TCCCTGCTG | ----- | ACCTG | TGCTGACCTG | CAC--TGACC |
| vndmoj | CT | ----- | ----- | ----- | ----- | CG | AACTAAGACG | C--TGACT |
| vndper | CT | ATCTATC | CCTGAAAAAT | TCTCGGGCGA | ----- | GAAATTAACCT | TGATTAAGTG | CACCCAAATG |
| vndpse | ----- | ----- | ----- | ----- | ----- | ACCTG | AACCGACCTG | ACC--CGATC |
| vndsec | CC | ----- | GT--AGAG | TCCCTGCTG | ----- | ACCTG | TGCTGACCTG | CAC--TGACC |
| vndsim | CC | ----- | GT--AGAG | TCCCTGCTG | ----- | ACCTG | TGCTGACCTG | CAC--TGACC |
| vndvir | ----- | ----- | ACCAAGAG | ----- | ----- | ACCCG | CGCCCGATCG | CCCGATAGTC |
| vndwil | GT | ----- | GTGTG | TGTGTGTG | ----- | AGGCG | TGCTGAGTC | ----- |
| vndyak | CTAAAGAGCA | GAGAGAAGAG | TCCCTGCTG | ----- | ----- | ACCTG | TGCTGACCTG | CCC--TGACC |

561

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|--------|-------------|------------|------------|------------|------------|------------|-------|-------------|
| vndana | ----- | CAGGTAGAGG | ----- | ----- | ----- | ----- | ACC | AGAGACCGAT |
| vndere | ----- | CAGGTAGCAG | TTAGTT | ----- | GCGATC | C | ----- | GTA |
| vndgri | ATCCCAAC | CAGGTAGTGG | TGAGGTGTCA | ----- | GCGATC | C | ----- | ACC |
| vndmel | ----- | CAGGTAGC | ----- | ----- | GCGATC | C | ----- | TTA |
| vndmoj | ----- | CTGG | ----- | ----- | ----- | ----- | ----- | GCC |
| vndper | TGA | CACCTAGT | ----- | ----- | ----- | ----- | ----- | CTC |
| vndpse | TTGCGGATGGA | CAGGTAGATG | GCA--ACCA | ACAGGTCCCA | GCGGTGGTCA | GTGGTTGGTC | ----- | TTAAAGCAGAT |
| vndsec | ----- | CAGGTAGT | ----- | ----- | GCGATC | C | ----- | GTA |
| vndsim | ----- | CAGGTAGC | ----- | ----- | GCGATC | C | ----- | GTA |
| vndvir | ----- | CAGGTAGTG | ----- | ----- | CAGCGGTG | C | ----- | ACC |
| vndwil | ----- | CAGGTAGCAG | GTACACACAC | ACACAAGATC | GTGAGATCA | GCCATG | ----- | GTG |
| vndyak | ----- | CAGGTAGCAG | GTAGGTGGGA | ----- | AGGCGATC | C | ----- | GTG |

631

| | | | | | | | | | | |
|--------|-------------|------------|------------|-------|-------|-------------|------------|------------|-----------|------------|
| vndana | T | ----- | TGCG | TT | ----- | TTT | AAATGCTGA | ----- | TGGATGATG | GCATT----- |
| vndere | T | ----- | TGCG | ----- | ----- | TTT | AAATGTTGA | ----- | ----- | GTATTA--GG |
| vndgri | T | ----- | TGCG | ----- | ----- | TTT | AAATGTTGA | ----- | ----- | GTATTAGTGG |
| vndmel | T | ----- | TGCG | ----- | ----- | TTT | AAATGTTGA | ----- | ----- | GTATTA--GG |
| vndmoj | C | ----- | CAAG | ----- | ----- | TCC | GAGTG | ----- | ----- | ----- |
| vndper | CCCTTTCCTTT | TCCTTTTGGG | CT | ----- | ----- | TCC | ACTTGCCAAA | TCCTGTACTG | ----- | GGCCCAGAGG |
| vndpse | T | ----- | TGTG | ----- | ----- | TTT | AAATGTTGA | ----- | ----- | GTATTAGTGG |
| vndsec | T | ----- | TGCG | ----- | ----- | TTT | AAATGTTGA | ----- | ----- | GTATTA--GG |
| vndsim | T | ----- | TGCG | ----- | ----- | TTT | AAATGTTGA | ----- | ----- | GTATTA--GG |
| vndvir | T | ----- | TGAG | ----- | ----- | TTT | AAATGTTGA | ----- | ----- | GTATTAGTGG |
| vndwil | TTTATGTGTG | TGTGTGTGTG | TGTGTGTGTG | ----- | ----- | TGCGTGTGTTT | AAATGTTGA | ----- | ----- | GCATTAGTGG |
| vndyak | T | ----- | TGCG | ----- | ----- | TTT | AAATGTTGA | ----- | ----- | GTATTA--GG |

701

| | | | | | | | |
|--------|-------------|------------|------------|------------|------------|-------------|------------|
| vndana | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| vndere | CAAAATCA | ----- | ----- | ----- | ----- | ----- | ----- |
| vndgri | AAAATCAAAAT | TTGTATTAGC | CACAGCTTAG | CCACTGCGGC | TCACAAGCTA | CGACTAAGAA | TGCAACTGCA |
| vndmel | CAAAATCA | ----- | ----- | ----- | ----- | ----- | ----- |
| vndmoj | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| vndper | CTAATGA | ----- | ----- | ----- | ----- | ----- | ----- |
| vndpse | AAAATCAAAAT | TTTCATTAGC | CTCTGGGCCC | AGTACAGGAT | TTGGCAAGTC | GAAGCCCCAAA | AGGAAAAGGA |
| vndsec | CAAAATCA | ----- | ----- | ----- | ----- | ----- | ----- |
| vndsim | CAAAATCA | ----- | ----- | ----- | ----- | ----- | ----- |
| vndvir | AAAATCAAAAT | TTGCATTAGC | CCTAGCTTA | ----- | ----- | ----- | ----- |
| vndwil | AAAATCAAAAT | TTGCATTAGA | GCAAAAACT | ----- | ----- | ----- | ----- |
| vndyak | CGAATCA | ----- | ----- | ----- | ----- | ----- | ----- |

771

| | | | | | | | |
|--------|---------------------|-------------|------------|--------------|-------------|------------|------------|
| vndana | ---AGAGTGGG | ----- | ----- | ----- | ---AGG | ACTAGGTGTC | GATAAT |
| vndere | ---AAACTCGGGTTC | ----- | ----- | ----- | TGGCCGGG | ACTAGGTGTC | AATAAT |
| vndgri | ACTGAAACTG | GGTCTCTCTC | TCTCTCTTTG | CCTCCT | TATCTTGG | TGTAGGTGTC | AATAAT |
| vndmel | ---AAACTCGGGGTC | ----- | ----- | ----- | TGACCGGG | ACTAGGTGTC | AATAAT |
| vndmoj | ---GAGCCCAGACTC | ----- | ----- | ----- | GCTCGGT | GCTAGGTGTC | AATAAT |
| vndper | ---AAATTTGATTTT | ----- | ----- | ----- | CCACTAAT | ACCA---TC | AACAATTAAA |
| vndpse | AAGGAAA | GG | ----- | ----- | CCACTGAG | ACTAGGTGTC | AATAAT |
| vndsec | ---AAACTCGGGATC | ----- | ----- | ----- | TGACCGGG | ACTAGGTGTC | AATAAT |
| vndsim | ---AAACTCGGGGTC | ----- | ----- | ----- | TGACCGGG | ACTAGGTGTC | AATAAT |
| vndvir | ACTGAAACTG | GGTCTGAAAC | TGTGACTGGG | CTTTTGGTTT | TGCAACTGGG | ACTAGGTGTC | AATAAT |
| vndwil | ---AAACTAGCTAAGCCTT | GGAAAAACGAA | CCCAGGAAA | G---AAGCGAAG | ---AAGCGAAG | ACTAGGTGTC | AATAAT |
| vndyak | ---AAACTCGGGCTC | ----- | ----- | ----- | TGGCCTGG | ACTAGGTGTC | AATAAT |

841

| | | | | | | | | | | |
|--------|-------------|------------|------------|----|--------|-------|-------------|------------|------------|----------|
| vndana | ----- | ----- | ----- | CC | TGCGAT | ----- | TTGTCC | TGCTTTT | ----- | ---AATCA |
| vndere | ----- | ----- | ----- | CC | AGCGAT | ----- | TTGGGT | GCACCTT | ----- | ---ATTCA |
| vndgri | ----- | ----- | ----- | CC | AGCGAT | ----- | TTGGAT | GCACCTT | ----- | ---AATCA |
| vndmel | ----- | ----- | ----- | CC | AGCGAT | ----- | TTGGGT | GCACCTT | ----- | ---ATTCA |
| vndmoj | ----- | ----- | ----- | CC | AGCGAT | ----- | TTGGGT | GCACCTT | ----- | ---AATCA |
| vndper | CACAAAATCTG | CTTTAGACCA | ACCACCTGAC | CC | AGCGAT | GGGA | CCCTGTTGGTT | GCCATCTACC | TGTCCATCCG | --- |
| vndpse | ----- | ----- | ----- | CC | TGCGAT | ----- | TTGGGT | GCACCTT | ----- | ---AATCA |
| vndsec | ----- | ----- | ----- | CC | AGCGAT | ----- | TTGGGT | GCACCTT | ----- | ---ATTCA |
| vndsim | ----- | ----- | ----- | CC | AGCGAT | ----- | TTGGGT | GCACCTT | ----- | ---ATTCA |
| vndvir | ----- | ----- | ----- | CC | AGCGAT | ----- | TTGGGT | GCACCTT | ----- | ---AATCA |
| vndwil | ----- | ----- | ----- | CC | CATGAT | ----- | TTGTCA | GCACCTT | ----- | ---AATCG |
| vndyak | ----- | ----- | ----- | CC | AGCGAT | ----- | TTGGGT | GCACCTT | ----- | ---ATTCA |

911

| | | | | | | | | | |
|--------|------------|------------|------------|------------|-------------|-------------|------------|-------|-------|
| vndana | AAGTTAAT | ----- | TCCG | ----- | CTTCTTGG | GCTATGGATC | TTAGC | ----- | ----- |
| vndere | AAGTTAAT | ----- | TCCGG | GGGAAACGTG | CGCGTTTTC | ----- | C | ----- | ----- |
| vndgri | AAGTTAAT | ----- | TCCA | AGCAAGTGTG | AAAAATCTTG | ----- | ----- | ----- | ----- |
| vndmel | AAGTTAAT | ----- | TCCGG | GGGAAATGTG | CGCGTTTTCG | GTTCCGAAGC | ATGCC | ----- | ----- |
| vndmoj | AAGTTAAT | ----- | TCCC | AGCAAGTGTG | AA-AAATTTGA | GCGACGAGTC | ----- | ----- | ----- |
| vndper | AAGATCAG | ----- | ATCGG | ATCGGGTCAG | GTCCGGTTCAG | GTCCGGTTCAG | GTCCGTGCC | ----- | ----- |
| vndpse | AAGTTAAT | ----- | TCTCG | CCGAGAAAT | TTTTTCA | G | ----- | ----- | ----- |
| vndsec | AAGTTAAT | ----- | TCCGG | GGGAAATATG | TGCGATTTTCG | GTTCCGCAGC | ATGCTC | ----- | ----- |
| vndsim | AAGTTAAT | ----- | TCCGG | GGGAAATATG | TGCGATTTTCG | GTTCCGCAGC | ATGCTC | ----- | ----- |
| vndvir | AAGTTAAT | ----- | TCCG | AGCAAGTGTG | AAAAATCTAA | G | C | ----- | ----- |
| vndwil | AAGTTAATCA | AAGGCCCTGA | GGCCCGAGGA | CGAATATTTT | GCTGAAAGTC | ACCGACCCAA | ACGACCCAAA | ----- | ----- |
| vndyak | AAGTTAAT | ----- | TCCGG | GGGAAACGTG | CGCGTCTTC | ----- | ----- | ----- | ----- |

981

| | | | | | | | | |
|--------|------------|------------|------------|------------|------------|-------------|------------|-------|
| vndana | ---ATATC | CTGGCATA | ----- | TC | CTTTTTCG | CACCTAGACC | AGAGACCT | ----- |
| vndere | GCACG | AT-GCACA | ----- | C | ----- | CCCCACCT | CCTTCGCC | ----- |
| vndgri | ----- | ----- | ----- | ----- | ----- | CCCGAC | ----- | ----- |
| vndmel | GCAGG | AT-GCACA | ----- | CC | ----- | CCCCACCT | CCTTATCT | ----- |
| vndmoj | GCAGC | TCACTGCA | ----- | ----- | ATTTCGCT | CGCCCTGGCC | CTGGCCCTGG | ----- |
| vndper | ACATG | TTGGCGCAAG | TTTCTTCGGG | CGCTGCTTCC | GGTTTTTCCA | CATTGAATTT | TCCAAAAT | ----- |
| vndpse | ----- | GGAGA | ----- | TCA | GATCAGATAG | ATCCCCAATGT | CTCAGATA | ----- |
| vndsec | GCAGG | AT-GCACA | ----- | CC | ----- | CCCCACCT | CCTTGTCT | ----- |
| vndsim | GCAGG | AT-GCACA | ----- | C | ----- | CCCCACCT | CCTTGTCT | ----- |
| vndvir | CCGAG | TC-GCAGC | ----- | TC | ----- | ----- | ----- | ----- |
| vndwil | GATCAGCAGG | TAGACACA | ----- | CA | ----- | CACACAGTTT | CTCTATCT | ----- |
| vndyak | ----- | T-GCACA | ----- | TCC | CATCCATCTC | CACCCCAACC | TCTTCCCT | ----- |

1051

| | | | | | | | | |
|--------|------------|------------|------------|--------|-----------|------------|------------|------------|
| vndana | CCTTGGCGAG | GGGCAAGTGC | GAAAAAT | --- | CTCATGAAA | GTCAGAGC | --- | --- |
| vndere | TCTCAACAG- | CGGCAAGTGC | AGAAAT | --- | CTGTGAAA | GTCAGAGC | --- | --- |
| vndgri | --TTGTGGA- | GCGACAGTGC | AAATTT | I | GCTGTGAAA | GTCAGTGTCA | GTGTTTGTTA | CCTGCTTCTG |
| vndmel | TCTTAACAA- | CGGCAAGTGC | AAAAAT | --- | CTGTGAAA | GTCAGAGC | --- | --- |
| vndmoj | CCCTGGCCG- | --- | --- | --- | AA | GTCAGTGT | --- | --- |
| vndper | TCCCACGCCA | GCGTTGGTAC | GATAGT | --- | GGGACAAA | GACGGAGA | --- | --- |
| vndpse | TTTCGCTCG- | CTCCCTCTGC | AAAAATCGCA | ATCTGC | GAAA | GTCAGGGC | --- | --- |
| vndsec | TCTTAACGA- | CGGCAAGTGC | AAAAAT | --- | CTTTGAAA | GTCAGAGC | --- | --- |
| vndsim | TCTTAACGA- | CGGCAAGTGC | AAAAAT | --- | CTGTGAAA | GTCAGAGC | --- | --- |
| vndvir | --- | GGTGC | AAATTT | --- | CCTCAAA | GTCAGCGC | --- | --- |
| vndwil | CTTGGAACAG | GTAGAAATGA | ACTCAT | --- | TCATGATT | TTTA-ACC | --- | --- |
| vndyak | TCTTAACAA- | CGGCAAGTGC | AGAAAT | --- | CTGTGAAA | GTCAGAGC | --- | --- |

1121

| | | | | | | | | |
|--------|------------|------------|----------|---------|---------|------|------------|------------|
| vndana | --- | GC- | GGCAGGTA | --- | --- | G | CTGGTCTTCT | --- |
| vndere | --- | GC- | TACAGGTA | --- | --- | AG | GTAGTTCCT | T |
| vndgri | GACAGATAGA | CAGACAGACA | GACAGACA | --- | GACCGGC | ATAC | GTAGATATTT | GTAACGTCGT |
| vndmel | --- | GC- | TACAGGTA | --- | --- | AG | GTAGTTCCT | T |
| vndmoj | --- | GC- | GGCAGGTA | GGCC | --- | AG | GTAGATCCCT | --- |
| vndper | --- | --- | CACATGTT | --- | --- | AG | GGAATTCCT | --- |
| vndpse | --- | ATC | GGCAGGTA | --- | --- | AG | GTAGACCGGT | AGAACAG |
| vndsec | --- | GC- | TACAGGTA | --- | --- | AG | GTAGTTCCT | T |
| vndsim | --- | GC- | TACAGGTA | --- | --- | AG | GTAGTTCCT | --- |
| vndvir | --- | GT- | CAGGTACT | TGCTGCT | --- | AG | GTAGAAAATT | --- |
| vndwil | --- | GGA | TCTAGTTA | --- | --- | AG | ACAATTCACT | GACTTCCTTT |
| vndyak | --- | GCA | AACAGGTA | --- | --- | AG | GTAGTTCCT | T |

1191

| | | | | | | | | | | |
|--------|-------------|------------|-------------|-----------|-----------|-----|-------------|------------|------------|-----|
| vndana | --- | CTCCT | TTGTGGCGAG | GACACCTCC | TTTGT | G | --- | CATCTTCGG | --- | GCC |
| vndere | TGCATATCCC | GACCCATA | --- | GACCT-TCC | TTTGT | A | --- | AACCTTCGG | GCGATTGCGC | --- |
| vndgri | TAGACGACCC | AACAAATGTG | CATTG-TCC | --- | ATTGTG | A | --- | TACTTTCGG | GCCAT-TCC | --- |
| vndmel | TGCATATCCC | GACCAACAGG | GACCT-CCT | --- | TTTGT | A | --- | AACCTTCGG | --- | GCC |
| vndmoj | -AGGTAGTGT | GACGAACTGT | GACCCGACCA | ATTGT | G | --- | GCCATTTGTGT | TTATCTTCCT | GTCCG | TTT |
| vndper | --- | TC | CTCAGACAGT | GTGAC-GTC | GTCTCT | G | --- | CATCTTCGG | T | GTC |
| vndpse | GCTGTATTTCG | AGCCACAGTG | TTAAA-GCC | TTTGT | G | --- | --- | GACCTTCGG | --- | GCC |
| vndsec | TGCATATCCC | AACCAA-AGG | GACCT-CCC | TTTGT | A | --- | --- | AACCTTCGG | --- | GCC |
| vndsim | TGCATATCCC | GACCAA-AGG | GACCT-CCC | TTTGT | A | --- | --- | AACCTTCGG | --- | GCC |
| vndvir | --- | AGACCCG | AAAAATGCAGT | GTACG-TCC | ATTGTG | T | --- | TGCTTTCGG | GCCAT | TTT |
| vndwil | CACATGATTT | AA | --- | TTT | ATTGTATCT | --- | --- | TATTTTCCT | T | ACT |
| vndyak | TGCATATCCC | GACCAA | --- | GGACT-CCC | TTTGT | A | --- | CACCTTCGG | --- | GCC |

1261

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|--------|-------------|------------|------------|---------|---------|------------|-----------|------------|------------|-----|
| vndana | ATTTCATGA | --- | --- | --- | GATCC | GC | AC | CGGATGTAG | --- | --- |
| vndere | ATTTCATGC | --- | --- | --- | GAT-TG | AC | AC | AGGATGTGC | --- | --- |
| vndgri | ATTTCATGA | --- | --- | --- | CAC-TT | TCG | AC | CGGATGTGC | --- | --- |
| vndmel | ATTTCACAC | --- | --- | --- | GAT-TG | AC | AC | AGGATGTGC | --- | --- |
| vndmoj | ATTTCATGA | --- | --- | G | CAGTGAA | AG | AC | CGGATGTCCG | ATGTGGATG | --- |
| vndper | GTTCAGCGG | --- | --- | --- | CA | GTGTGAGCC | GGTGTCTCG | --- | --- | --- |
| vndpse | ATTTCATGATA | TACCGATACC | CATACCAATA | CCCATAC | CC | AT | AC | CGGATGTAG | --- | --- |
| vndsec | ATTTCATAC | --- | --- | --- | GAT-TG | AC | AC | AGGATGTGC | --- | --- |
| vndsim | ATTTCATAC | --- | --- | --- | GAT-TG | AC | AC | AGGATGTGC | --- | --- |
| vndvir | ATTTCATGA | --- | --- | --- | CA-CG | AC | AC | CGGATGTCCG | ATGTAGAACG | --- |
| vndwil | ATTTGTTA | --- | --- | --- | TTT | --- | AC | AGTCTGTTT | --- | --- |
| vndyak | ATTTCATGC | --- | --- | --- | GAT-CG | ACGGATCGAC | AGGATGTGC | --- | --- | --- |

1331

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|--------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|
| vndana | --- | CAAC | TGCCAGGA | --- | --- | --- | --- | --- | CAA |
| vndere | --- | C | TGCAATAA | --- | --- | --- | GC | ATG | AAG |
| vndgri | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| vndmel | --- | C | TGCAATAA | --- | --- | --- | GC | ATG | AAA |
| vndmoj | --- | T | GGCGGCAA | --- | --- | --- | GT | GTT | GAA |
| vndper | --- | AATC | TGCACCGA | --- | --- | --- | --- | --- | --- |
| vndpse | --- | A | AGCAATGG | --- | --- | --- | GC | ATGAAGCTGC | AGTTTAAAGA |
| vndsec | --- | --- | TGCAATAA | --- | --- | --- | GC | ATG | AAA |
| vndsim | --- | C | TGCAATAA | --- | --- | --- | GC | ATG | AAA |
| vndvir | TACAACGATA | TGCAGCAAGT | GTGGGTGTGT | GTGGTGTGT | GTGTGTGTGT | GTGTGTGTGT | GTGTGTGTGT | GTGTGTGTGT | GTGTGTGTGT |
| vndwil | --- | GA | TGCCAAGG | --- | --- | --- | --- | --- | TTCCCAT |
| vndyak | --- | C | TGCAATAA | --- | --- | --- | GT | GTG | AAG |

1401

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|--------|-------------|------------|-------------|------------|------------|------------|------------|
| vndana | TAGAA--G | CGACTCATAT | CGTTTTTTTG | CGTGTAAAT | AATC-ATGTA | GAGCTGGGA- | GAGGGACTAG |
| vndere | CAGGA-A--A | AGAT----- | -CGTTCCAAG | TCCGCTGAGG | AGCC-ATCCT | CATCACTCG- | GG--GAGTCA |
| vndgri | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| vndmel | CAGGG-A--A | AAAT----- | -CGTTCCACG | TCCCTTAAGG | AGCC-ATCCT | TAT-ACTCG- | GG--GAGTCA |
| vndmoj | TGACACAATCG | AGACTGTATT | GCTCTTGTTC | TCTCCTTTGC | AGCC--TCTT | CGATGCCAA- | GGTGGCGTCG |
| vndper | ----- | ----- | -GTCCCTG | CTGCTGCCG | CACACAIGTT | GGCCCGTCAT | TGGAGTTTCC |
| vndpse | TGACAGG--A | TGAC----- | AATAGAAAG | CAACGCAAA | AGCC-AT--- | ----- | TCA |
| vndsec | CAGGGAA--A | AAAT----- | -AGTTCCACG | TCCCTTAAGG | AGCC-ATCCT | TAT-ACTCG- | GG--GAGTCA |
| vndsim | CAGGGAA--A | AAAT----- | -AGTTCCACG | TCCCTTAAGG | AGCC-ATCCT | TAT-ACTCG- | GG--GAGTCA |
| vndvir | TGGTGAA--T | CGAC----- | -AATTAAAAAC | T----- | -GTG-CTCTT | GTCTACTTG | CA--GCCTCT |
| vndwil | CATCGCA--A | CGCTCGG--- | -GTTTTCACA | TATCGGATAT | ACTCAATTG | GATGGCTCG- | GA--ACTGA |
| vndyak | CAGGA-A--A | AGAT----- | -CGTTCCGAG | TCCCTGAGG | AGCC-ATCCT | TAT-ATTG- | GGCAGTGTGA |

1471

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|--------|-------------|------------|------------|-------------|------------|------------|-------|
| vndana | TTGGCAACTC | TTCC----- | ----- | ----- | ----- | ----- | ----- |
| vndere | TTAATCACAC | GAC----- | ----- | ----- | ----- | ----- | ----- |
| vndgri | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| vndmel | TTAATCACTC | GATTATATGA | CAATTGCGG | GGAC | ----- | ----- | ----- |
| vndmoj | TGGCAGC--- | ----- | ----- | ----- | ----- | ----- | ----- |
| vndper | CTGACCACTC | TCACCTAC-- | ----- | ----- | ----- | ----- | ----- |
| vndpse | TTCAAGCCTC | AATCGAAGCA | TCAATCTGAG | CATTCAATTG | AGTG | ----- | ----- |
| vndsec | TTAATCACTC | GATAATATGA | CAATTGTCG | GGAC | ----- | ----- | ----- |
| vndsim | TTAATCACTC | GATTATATGG | CAATTGTCG | GGACAAATTAA | GAAAC | ----- | ----- |
| vndvir | TTGATGCCAA | G----- | ----- | ----- | ----- | ----- | ----- |
| vndwil | AAAAATGCCGC | AGCAGCCGCT | GCAGCCGCCG | CCCATC | ----- | ----- | ----- |
| vndyak | TTAATGAATC | -----A | CAATTGTCAG | GAACAATTAA | GAAACTACAC | AGAATCTCAA | ----- |