

## *Supplementary Material*

### Supplementary Table

**Table S1:** List of primers used in this study

| Primer Name                                     | Sequence                                            |
|-------------------------------------------------|-----------------------------------------------------|
| <b>Porin knock-out and pOMK complementation</b> |                                                     |
| MmpA Fw ( <i>SpeI</i> )                         | 5'-CATCAT <u>ACTAGT</u> ACTTGCGGACGTCTTGGGTTTGG-3'  |
| MmpA Rv ( <i>NotI</i> )                         | 5'-CATCAT <u>GCGGCCGC</u> GTAGGCCACGCGGAACCGATCA-3' |
| MmpB Fw ( <i>SpeI</i> )                         | 5'-CATCAT <u>ACTAGT</u> GGACACTGCATGTACACGGGATC-3'  |
| MmpB Rv ( <i>NotI</i> )                         | 5'-CATCAT <u>GCGGCCGC</u> GAGGCAGAGCTGCTCGTGGAGA-3' |
| MptRv                                           | 5'-TGGTCACCAAGTTCAGCGACG-3'                         |
| MscLFw                                          | 5'-TGGCGATTTCAGATCATCGAGC-3'                        |
| <b>qRT-PCR</b>                                  |                                                     |
| RTMmpA Fw                                       | 5'-GGGACTGATAGGAACAGAATGAAG-3'                      |
| RTMmpA Rv                                       | 5'-ACAAGAGTCATGAGCAGAGC-3'                          |
| RTMmpB Fw                                       | 5'-TGAGAACGGTTGGCATCC-3'                            |
| RTMmpB Rv                                       | 5'-GACGACGAGTATCAGTGACG-3'                          |
| SigA Fw                                         | 5'-CGTTCCTGGACCTGATTTCAG-3'                         |
| SigA Rv                                         | 5'-GTACGTCGAGAACTTGTAACCC-3'                        |



**Figure S2: GTA susceptibility of *Mmas* CIP108297, CRM-019 and the *mmpA* and *mmpB* porin knock-out mutants.**

Results are expressed as CFU counts upon exposure of the test organisms to 0.5 or 2.2% GTA (under the formulated form of Cidex®, Johnson & Johnson) for 0, 5 and 30 min. CRM-019 is a GTA-resistant outbreak isolate from Brazil [Duarte *et al.*, 2009; Burgess *et al.*, 2017].

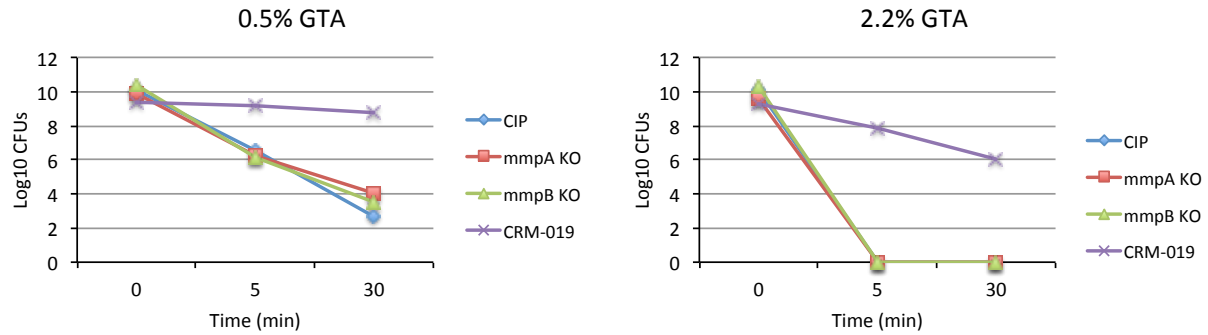


**Figure S3: Susceptibility of wild-type *Mmas* and the *mmpA* and *mmpB* porin knock-out mutants to NO *in vitro*.**

Shown is the viability of the *Mmas* WT, mutant and complemented mutant strains prior (time 0) and after exposure to the NO donor Spermine NONOate (10 mM) for 4 or 24 hours.

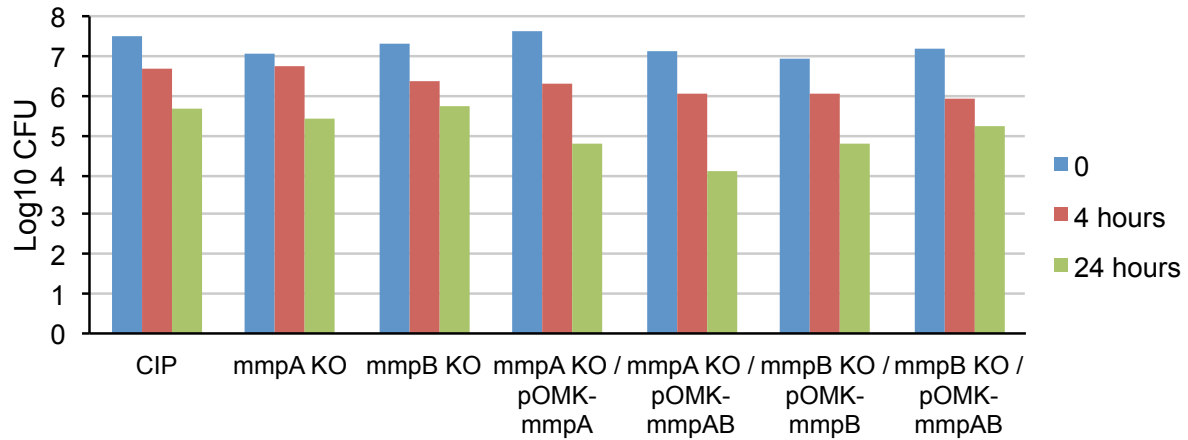


**Figure S4: Nucleotide and amino acid sequence alignment of the *mmpA* and *mmpB* region of *Mmas* strains CRM-0020 and CRM-0270 and CIP108297.**

CRM-020 is a GTA-resistant outbreak isolate from Brazil whereas CRM-270 is a genetically closely related isolate that is susceptible to GTA [Duarte *et al.*, 2009; Burgess *et al.*, 2017].

#### MmpA protein sequence alignment

|           |            |            |            |            |             |
|-----------|------------|------------|------------|------------|-------------|
|           | 1          |            |            |            | 50          |
| CIP       | MKLLSKVSGW | ARRGVLAVGA | LLMTLVALIA | TTATAHAGLD | DELTLLVDGKG |
| CRM270    | MKLLSKVSGW | ARRGVLAVGA | LLMTLVALIA | TTATAHAGLD | DELTLLVDGKG |
| CRM020    | MKLLSKVSGW | ARRGVLAVGA | LLMTLVALIA | TTATAHAGLD | DELTLLVDGKG |
| Consensus | MKLLSKVSGW | ARRGVLAVGA | LLMTLVALIA | TTATAHAGLD | DELTLLVDGKG |
|           | 51         |            |            |            | 100         |
| CIP       | RLLRIQQWDT | FLNGVFPLDR | NRLTREWFHS | GRAVYEVTGP | GSDAFEGTLE  |
| CRM270    | RLLRIQQWDT | FLNGVFPLDR | NRLTREWFHS | GRAVYEVTGP | GSDAFEGTLE  |
| CRM020    | RLLRIQQWDT | FLNGVFPLDR | NRLTREWFHS | GRAVYEVTGP | GSDAFEGTLE  |
| Consensus | RLLRIQQWDT | FLNGVFPLDR | NRLTREWFHS | GRAVYEVTGP | GSDAFEGTLE  |
|           | 101        |            |            |            | 150         |
| CIP       | LGYQVGYPWS | LGVGLNFNYT | TPNTSILYGI | PNAFGGSPEA | SYVQTTNLLP  |
| CRM270    | LGYQVGYPWS | LGVGLNFNYT | TPNTSILYGI | PNAFGGSPEA | SYVQTTNLLP  |
| CRM020    | LGYQVGYPWS | LGVGLNFNYT | TPNTSILYGI | PNAFGGSPEA | SYVQTTNLLP  |
| Consensus | LGYQVGYPWS | LGVGLNFNYT | TPNTSILYGI | PNAFGGSPEA | SYVQTTNLLP  |
|           | 151        |            |            |            | 200         |
| CIP       | SAGINVDLGN | GPGIQEVATF | SVAVAGPKGA | VAVSNAHGTV | TGAAGGVLLR  |
| CRM270    | SAGINVDLGN | GPGIQEVATF | SVAVAGPKGA | VAVSNAHGTV | TGAAGGVLLR  |
| CRM020    | SAGINVDLGN | GPGIQEVATF | SVAVAGPKGA | VAVSNAHGTV | TGAAGGVLLR  |
| Consensus | SAGINVDLGN | GPGIQEVATF | SVAVAGPKGA | VAVSNAHGTV | TGAAGGVLLR  |
|           | 201        |            | 223        |            |             |
| CIP       | PYARLISSAG | DSVTTYGETW | DMK        |            |             |
| CRM270    | PYARLISSAG | DSVTTYGETW | DMK        |            |             |
| CRM020    | PYARLISSAG | DSVTTYGETW | DMK        |            |             |
| Consensus | PYARLISSAG | DSVTTYGETW | DMK        |            |             |

#### MmpB protein sequence alignment

|           |            |            |            |            |            |
|-----------|------------|------------|------------|------------|------------|
|           | 1          |            |            |            | 50         |
| CIP       | MRTVGIRRVV | QStLTSLILV | VGMVGLTVIG | TGTAHAGLDD | ELTLVDGKGR |
| CRM270    | MRTVGIRRVV | QSALTSLILV | VGMVGLTVIG | TGTAHAGLDD | ELTLVDGKGR |
| CRM020    | MRTVGIRRVV | QSALTSLILV | VGMVGLTVIG | TGTAHAGLDD | ELTLVDGKGR |
| Consensus | MRTVGIRRVV | QStLTSLILV | VGMVGLTVIG | TGTAHAGLDD | ELTLVDGKGR |
|           | 51         |            |            |            | 100        |
| CIP       | LLRIQQWDTF | LNGVFPLDRN | RLTREWFHSG | RAAYEVTGAG | SDTFEGTLEL |
| CRM270    | LLRIQQWDTF | LNGVFPLDRN | RLTREWFHSG | RAAYEVTGAG | SDTFEGTLEL |
| CRM020    | LLRIQQWDTF | LNGVFPLDRN | RLTREWFHSG | RAAYEVTGAG | SDTFEGTLEL |
| Consensus | LLRIQQWDTF | LNGVFPLDRN | RLTREWFHSG | RAAYEVTGAG | SDTFEGTLEL |
|           | 101        |            |            |            | 150        |
| CIP       | GYQVGYPWSL | GVGLNFNYTT | PNTSILYGIP | NAFGGtPEAS | YVQTTNLLPS |
| CRM270    | GYQVGYPWSL | GVGLNFNYTT | PNTSILYGIP | NAFGGSPEAS | YVQTTNLLPS |
| CRM020    | GYQVGYPWSL | GVGLNFNYTT | PNTSILYGIP | NAFGGSPEAS | YVQTTNLLPS |
| Consensus | GYQVGYPWSL | GVGLNFNYTT | PNTSILYGIP | NAFGGtPEAS | YVQTTNLLPS |

|           |            |            |                                  |
|-----------|------------|------------|----------------------------------|
|           | 151        |            | 200                              |
| CIP       | AGINVDLGNG | PGIQEVATFS | VAIAGPKGAV AVSNAHGTVT GAAGGVLLRP |
| CRM270    | AGINVDLGNG | PGIQEVATFS | VAIAGPKGAV AVSNAHGTVT GAAGGVLLRP |
| CRM020    | AGINVDLGNG | PGIQEVATFS | VAVAGPKGAV AVSNAHGTVT GAAGGVLLRP |
| Consensus | AGINVDLGNG | PGIQEVATFS | VA!AGPKGAV AVSNAHGTVT GAAGGVLLRP |

|           |            |            |     |
|-----------|------------|------------|-----|
|           | 201        |            | 222 |
| CIP       | YARLISSAGD | SVTTYGETWD | MK  |
| CRM270    | YARLISSAGD | SVTTYGETWD | MK  |
| CRM020    | YARLISSAGD | SVTTYGETWD | MK  |
| Consensus | YARLISSAGD | SVTTYGETWD | MK  |

### Porin region DNA sequence alignment

The open reading frames corresponding to *mmpA* and *mmpB* are highlighted in yellow.

|           |                   |            |                                  |
|-----------|-------------------|------------|----------------------------------|
|           | 1                 |            | 50                               |
| CIP       | AAT <b>TGGGGA</b> | TGGCTACTTC | CGGCTCCAGG CCCGCCTGGG GGCAGGTGAT |
| CRM270    |                   | TGGCTACTTC | CGGCTCCAGG CCCGCCTGGG GGCAGGTGAT |
| CRM020    | <b>GGA</b>        | TGGCTACTTC | CGGCTCCAGG CCCGCCTGGG GGCAGGTGAT |
| Consensus |                   | TGGCTACTTC | CGGCTCCAGG CCCGCCTGGG GGCAGGTGAT |

|           |            |            |                                   |
|-----------|------------|------------|-----------------------------------|
|           | 51         |            | 100                               |
| CIP       | GCGAGGGCTA | CCAGATCGAA | TGTTTCAGATT GCCGCGCCGT CACCGTGCCG |
| CRM270    | GCGAGGGCTA | CCAGATCGAA | TGTTTCAGATT GCCGCGCCGT CACCGTGCCG |
| CRM020    | GCGAGGGCTA | CCAGATCGAA | TGTTTCAGATT GCCGCGCCGT CACCGTGCCG |
| Consensus | GCGAGGGCTA | CCAGATCGAA | TGTTTCAGATT GCCGCGCCGT CACCGTGCCG |

|           |            |            |                                          |
|-----------|------------|------------|------------------------------------------|
|           | 101        |            | 150                                      |
| CIP       | ATATCGTCCT | TCTGTCCGTC | GCTAAGGAAA TTCTCATGTT CGCC <b>ATGAGG</b> |
| CRM270    | ATATCGTCCT | TCTGTCCGTC | GCTAAGGAAA TTCTCATGTT CGCCATGAGG         |
| CRM020    | ATATCGTCCT | TCTGTCCGTC | GCTAAGGAAA TTCTCATGTT CGCCATGAGG         |
| Consensus | ATATCGTCCT | TCTGTCCGTC | GCTAAGGAAA TTCTCATGTT CGCCATGAGG         |

|           |                   |                   |                                         |
|-----------|-------------------|-------------------|-----------------------------------------|
|           | 151               |                   | 200                                     |
| CIP       | <b>GGACTGATAG</b> | <b>GAACAGAATG</b> | <b>AAGCTGTTGA</b> GCAAGGTATC GGGCTGGGCC |
| CRM270    | GGACTGATAG        | GAACAGAATG        | AAGCTGTTGA GCAAGGTATC GGGCTGGGCC        |
| CRM020    | GGACTGATAG        | GAACAGAATG        | AAGCTGTTGA GCAAGGTATC GGGCTGGGCC        |
| Consensus | GGACTGATAG        | GAACAGAATG        | AAGCTGTTGA GCAAGGTATC GGGCTGGGCC        |

|           |                   |                   |                                         |
|-----------|-------------------|-------------------|-----------------------------------------|
|           | 201               |                   | 250                                     |
| CIP       | <b>CGCCGCGGTG</b> | <b>TGCTGGCGGT</b> | <b>CGGCGCTCTG</b> CTCATGACTC TTGTTGCTCT |
| CRM270    | CGCCGCGGTG        | TGCTGGCGGT        | CGGCGCTCTG CTCATGACTC TTGTTGCTCT        |
| CRM020    | CGCCGCGGTG        | TGCTGGCGGT        | CGGCGCTCTG CTCATGACTC TTGTTGCTCT        |
| Consensus | CGCCGCGGTG        | TGCTGGCGGT        | CGGCGCTCTG CTCATGACTC TTGTTGCTCT        |

|           |                   |                   |                                         |
|-----------|-------------------|-------------------|-----------------------------------------|
|           | 251               |                   | 300                                     |
| CIP       | <b>CATTGCGACG</b> | <b>ACGGCGACGG</b> | <b>CGCATGCGGG</b> TCTGGACGAT GAACTGACGC |
| CRM270    | CATTGCGACG        | ACGGCGACGG        | CGCATGCGGG TCTGGACGAT GAACTGACGC        |
| CRM020    | CATTGCGACG        | ACGGCGACGG        | CGCATGCGGG TCTGGACGAT GAACTGACGC        |
| Consensus | CATTGCGACG        | ACGGCGACGG        | CGCATGCGGG TCTGGACGAT GAACTGACGC        |

|           |                                                         |     |
|-----------|---------------------------------------------------------|-----|
|           | 301                                                     | 350 |
| CIP       | TGGTTGATGG CAAGGGGCGC TTGCTGCGGA TCCAGCAGTG GGACACCTTT  |     |
| CRM270    | TGGTTGATGG CAAGGGGCGC TTGCTGCGGA TCCAGCAGTG GGACACCTTT  |     |
| CRM020    | TGGTTGATGG CAAGGGGCGC TTGCTGCGGA TCCAGCAGTG GGACACCTTT  |     |
| Consensus | TGGTTGATGG CAAGGGGCGC TTGCTGCGGA TCCAGCAGTG GGACACCTTT  |     |
|           | 351                                                     | 400 |
| CIP       | CTCAACGGTG TGTTTCCGTT GGACCGCAAC CGCCTGACGC GTGAGTGGTT  |     |
| CRM270    | CTCAACGGTG TGTTTCCGTT GGACCGCAAC CGCCTGACGC GTGAGTGGTT  |     |
| CRM020    | CTCAACGGTG TGTTTCCGTT GGACCGCAAC CGCCTGACGC GTGAGTGGTT  |     |
| Consensus | CTCAACGGTG TGTTTCCGTT GGACCGCAAC CGCCTGACGC GTGAGTGGTT  |     |
|           | 401                                                     | 450 |
| CIP       | CCACTCGGGC CGTGCGGTTT ATGAGGTGAC GGGTCCGGGT TCGGATGCGT  |     |
| CRM270    | CCACTCGGGC CGTGCGGTTT ATGAGGTGAC GGGTCCGGGT TCGGATGCGT  |     |
| CRM020    | CCACTCGGGC CGTGCGGTTT ATGAGGTGAC GGGTCCGGGT TCGGATGCGT  |     |
| Consensus | CCACTCGGGC CGTGCGGTTT ATGAGGTGAC GGGTCCGGGT TCGGATGCGT  |     |
|           | 451                                                     | 500 |
| CIP       | TTGAGGGCAC CCTGGAGTTG GGTACCAGG TTGGTTACCC GTGGTCGTTG   |     |
| CRM270    | TTGAGGGCAC CCTGGAGTTG GGTACCAGG TTGGTTACCC GTGGTCGTTG   |     |
| CRM020    | TTGAGGGCAC CCTGGAGTTG GGTACCAGG TTGGTTACCC GTGGTCGTTG   |     |
| Consensus | TTGAGGGCAC CCTGGAGTTG GGTACCAGG TTGGTTACCC GTGGTCGTTG   |     |
|           | 501                                                     | 550 |
| CIP       | GGTGTGGGTT TGAACCTCAA CTACACGACG CCCAACACCT CGATTCTCTA  |     |
| CRM270    | GGTGTGGGTT TGAACCTCAA CTACACGACG CCCAACACCT CGATTCTCTA  |     |
| CRM020    | GGTGTGGGTT TGAACCTCAA CTACACGACG CCCAACACCT CGATTCTCTA  |     |
| Consensus | GGTGTGGGTT TGAACCTCAA CTACACGACG CCCAACACCT CGATTCTCTA  |     |
|           | 551                                                     | 600 |
| CIP       | CGGTATTCCG AACGCGTTTCG GCGGTAGCCC GGAAGCGTCA TATGTGCAGA |     |
| CRM270    | CGGTATTCCG AACGCGTTTCG GCGGTAGCCC GGAAGCGTCA TATGTGCAGA |     |
| CRM020    | CGGTATTCCG AACGCGTTTCG GCGGTAGCCC GGAAGCGTCA TATGTGCAGA |     |
| Consensus | CGGTATTCCG AACGCGTTTCG GCGGTAGCCC GGAAGCGTCA TATGTGCAGA |     |
|           | 601                                                     | 650 |
| CIP       | CGACCAACCT GTTGCCCAGT GCCGGTATCA ATGTCGACTT GGGCAACGGC  |     |
| CRM270    | CGACCAACCT GTTGCCCAGT GCCGGTATCA ATGTCGACTT GGGCAACGGC  |     |
| CRM020    | CGACCAACCT GTTGCCCAGT GCCGGTATCA ATGTCGACTT GGGCAACGGC  |     |
| Consensus | CGACCAACCT GTTGCCCAGT GCCGGTATCA ATGTCGACTT GGGCAACGGC  |     |
|           | 651                                                     | 700 |
| CIP       | CCCGGCATTC AGGAAGTCGC CACCTTCTCG GTAGCGGTTG CAGGTCCGAA  |     |
| CRM270    | CCCGGCATTC AGGAAGTCGC CACCTTCTCG GTAGCGGTTG CCGGTCCGAA  |     |
| CRM020    | CCCGGCATTC AGGAAGTCGC CACCTTCTCG GTAGCGGTTG CCGGTCCGAA  |     |
| Consensus | CCCGGCATTC AGGAAGTCGC CACCTTCTCG GTAGCGGTTG CaGGTCCGAA  |     |
|           | 701                                                     | 750 |
| CIP       | GGGTGCGGTG GCGGTGTCCA ACGCGCACGG CACCGTGACC GGTGCAGCCG  |     |
| CRM270    | GGGTGCGGTG GCGGTGTCCA ACGCGCACGG CACCGTGACC GGTGCAGCCG  |     |
| CRM020    | GGGTGCGGTG GCGGTGTCCA ACGCGCACGG CACCGTGACC GGTGCAGCCG  |     |
| Consensus | GGGTGCGGTG GCGGTGTCCA ACGCGCACGG CACCGTGACC GGTGCAGCCG  |     |

|           |                                                        |  |      |
|-----------|--------------------------------------------------------|--|------|
|           | 751                                                    |  | 800  |
| CIP       | GTGGTGTGCT GCTTCGTCCC TACGCGCGTT TGATCAGTTC CGCCGGGGAC |  |      |
| CRM270    | GTGGTGTGCT GCTTCGTCCC TACGCGCGTT TGATCAGTTC CGCCGGGGAC |  |      |
| CRM020    | GTGGTGTGCT GCTTCGTCCC TACGCGCGTT TGATCAGTTC CGCCGGGGAC |  |      |
| Consensus | GTGGTGTGCT GCTTCGTCCC TACGCGCGTT TGATCAGTTC CGCCGGGGAC |  |      |
|           | 801                                                    |  | 850  |
| CIP       | AGTGTGACCA CCTACGGCGA GACCTGGGAC ATGAAGTAGG ACGGGGC--A |  |      |
| CRM270    | AGTGTGACCA CCTACGGCGA GACCTGGGAC ATGAAGTAGG ACGGGGC--A |  |      |
| CRM020    | AGTGTGACCA CCTACGGCGA GACCTGGGAC ATGAAGTAGG ACGGGGCGCA |  |      |
| Consensus | AGTGTGACCA CCTACGGCGA GACCTGGGAC ATGAAGTAGG ACGGGGC..A |  |      |
|           | 851                                                    |  | 900  |
| CIP       | CCCCTCCCGC AACCAGGCGC CAAGGCCAC TCCCATATCG GTCATTTCGCG |  |      |
| CRM270    | CCCCTCCCGC AACCAGGCGC CAAGGCCAC TCCCATATCG GCCATTTCGCG |  |      |
| CRM020    | CCCCTCCCGC AACCAGGCGC CAAGGCCAC TCCCATATCG GCCATTTCGCG |  |      |
| Consensus | CCCCTCCCGC AACCAGGCGC CAAGGCCAC TCCCATATCG GtCATTTCGCG |  |      |
|           | 901                                                    |  | 950  |
| CIP       | GACGGTTGCT CACGATGCCT CGTTGCGGTG TTCGCGGCCG TTGGGCCGGT |  |      |
| CRM270    | GACGGTTGCT CACGATGCCT CGTTGCGGTG TTCGCGGCCG TTGGGCCGGT |  |      |
| CRM020    | GACGGTTGCT CACGATGCCT CGTTGCGGTG TTCGCGGCCG TTGGGCCGGT |  |      |
| Consensus | GACGGTTGCT CACGATGCCT CGTTGCGGTG TTCGCGGCCG TTGGGCCGGT |  |      |
|           | 951                                                    |  | 1000 |
| CIP       | CTTGGGGCAA CGTCGGGCGC AAGGGTGTTG TCGCGCTGAC ACTGCGCACG |  |      |
| CRM270    | CTTGGGGCAA CGTCGGGCGC AAGGGTGTTG TCGCGCTGAC ACTGCGCACG |  |      |
| CRM020    | CTTGGGGCAA CGTCGGGCGC AAGGGTGTTG TCGCGCTGAC ACTGCGCACG |  |      |
| Consensus | CTTGGGGCAA CGTCGGGCGC AAGGGTGTTG TCGCGCTGAC ACTGCGCACG |  |      |
|           | 1001                                                   |  | 1050 |
| CIP       | GCGCCGGGGT TGGGATGTGC CCGTGCCCTC TCTCGCCGCT ACACGTGCTT |  |      |
| CRM270    | GCGCCGGGGT TGGGATGTGC CCGTGCCCTC TCTCGCCGCT ACACGTGCTT |  |      |
| CRM020    | GCGCCGGGGT TGGGATGTGC CCGTGCCCTC TCTCGCCGCT ACACGTGCTT |  |      |
| Consensus | GCGCCGGGGT TGGGATGTGC CCGTGCCCTC TCTCGCCGCT ACACGTGCTT |  |      |
|           | 1051                                                   |  | 1100 |
| CIP       | GATCGGTTCC GCGTGGCTAC GCACGGCAAG ACCTGGGATA TGAAGTAGTC |  |      |
| CRM270    | GATCGGTTCC GCGTGGCTAC GCACGGCAAG ACCTGGGATA TGAAGTAGTC |  |      |
| CRM020    | GATCGGTTCC GCGTGGCTAC GCACGGCAAG ACCTGGGATA TGAAGTAGTC |  |      |
| Consensus | GATCGGTTCC GCGTGGCTAC GCACGGCAAG ACCTGGGATA TGAAGTAGTC |  |      |
|           | 1101                                                   |  | 1150 |
| CIP       | GCCATTACTG AATAGGTCCC TGGTCGTAGG AACTGCATG TGCACGGGAT  |  |      |
| CRM270    | GCCATTACTG AATAGGTCCC TGGTCGTAGG AACTGCATG TGCACGGGAT  |  |      |
| CRM020    | GCCATTACTG AATAGGTCCC TGGTCGTAGG AACTGCATG TGCACGGGAT  |  |      |
| Consensus | GCCATTACTG AATAGGTCCC TGGTCGTAGG AACTGCATG TGCACGGGAT  |  |      |
|           | 1151                                                   |  | 1200 |
| CIP       | CTGTGTATCT GCTGTGAGTT AGCCTCCCTG AAACATTCAA GAAACTCACA |  |      |
| CRM270    | CTGTGTATCT GCTGTGAGTT AGCCTCCCG AAACATTCAA GAAACTCAG   |  |      |
| CRM020    | CTGTGTATCT GCTGTGAGTT AGCCTCCCG AAACATTCAA GAAACTCAG   |  |      |
| Consensus | CTGTGTATCT GCTGTGAGTT AGCCTCCCTg AAACATTCAA GAAACTCACA |  |      |

|           |            |            |            |                        |
|-----------|------------|------------|------------|------------------------|
| 1201      |            |            |            | 1250                   |
| CIP       | GAGATGATTT | AGCCGTTACG | TTTGGCCCGC | CTGAGCAACA ATGTGGTCTT  |
| CRM270    | GAGATGATTT | AGCCGTTACG | TTTGGCCCGC | CTGAGCAACA ATGTGGTCTT  |
| CRM020    | GAGATGATTT | AGCCGTTACG | TTTGGCCCGC | CTGAGCAACA ATGTGGTCTT  |
| Consensus | GAGATGATTT | AGCCGTTACG | TTTGGCCCGC | CTGAGCAACA ATGTGGTCTT  |
|           | 1251       |            |            | 1300                   |
| CIP       | GGCGAGGTAG | GCATTTGCCC | TGGCGTTCAT | TCGCCCAGAGA ATTGAGGGAA |
| CRM270    | GGCGAGGTAG | GCATTTGCCC | TGGCGTTCAT | TCGCCCAGAGA ATTGAGGGAA |
| CRM020    | GGCGAGGTAG | GCATTTGCCC | TGGCGTTCAT | TCGCCCAGAGA ATTGAGGGAA |
| Consensus | GGCGAGGTAG | GCATTTGCCC | TGGCGTTCAT | TCGCCCAGAGA ATTGAGGGAA |
|           | 1301       |            |            | 1350                   |
| CIP       | CCAAATGAGA | ACGGTTGGCA | TCCGGCGGGT | TGTGCAGAGC ACCCTCACGT  |
| CRM270    | CCAAATGAGA | ACGGTTGGCA | TCCGGCGGGT | TGTGCAGAGC GCCCTCACGT  |
| CRM020    | CCAAATGAGA | ACGGTTGGCA | TCCGGCGGGT | TGTGCAGAGC GCCCTCACGT  |
| Consensus | CCAAATGAGA | ACGGTTGGCA | TCCGGCGGGT | TGTGCAGAGC aCCCTCACGT  |
|           | 1351       |            |            | 1400                   |
| CIP       | CACTGATACT | CGTCGTCGGC | ATGGTGGGCC | TGACGGTTAT CGGCACCGGT  |
| CRM270    | CACTGATACT | CGTCGTCGGC | ATGGTGGGCC | TGACGGTTAT CGGCACCGGT  |
| CRM020    | CACTGATACT | CGTCGTCGGC | ATGGTGGGCC | TGACGGTTAT CGGCACCGGT  |
| Consensus | CACTGATACT | CGTCGTCGGC | ATGGTGGGCC | TGACGGTTAT CGGCACCGGT  |
|           | 1401       |            |            | 1450                   |
| CIP       | ACGGCGCATG | CGGGTCTGGA | CGATGAACTG | ACGCTGGTTG ATGGCAAGGG  |
| CRM270    | ACGGCGCATG | CGGGTCTGGA | CGATGAACTG | ACGCTGGTTG ATGGCAAGGG  |
| CRM020    | ACGGCGCATG | CGGGTCTGGA | CGATGAACTG | ACGCTGGTTG ATGGCAAGGG  |
| Consensus | ACGGCGCATG | CGGGTCTGGA | CGATGAACTG | ACGCTGGTTG ATGGCAAGGG  |
|           | 1451       |            |            | 1500                   |
| CIP       | GCGCTTGCTG | CGGATCCAGC | AGTGGGACAC | CTTTCTCAAC GGTGTGTTTC  |
| CRM270    | GCGCTTGCTG | CGGATCCAGC | AGTGGGACAC | CTTTCTCAAC GGTGTGTTTC  |
| CRM020    | GCGCTTGCTG | CGGATCCAGC | AGTGGGACAC | CTTTCTCAAC GGTGTGTTTC  |
| Consensus | GCGCTTGCTG | CGGATCCAGC | AGTGGGACAC | CTTTCTCAAC GGTGTGTTTC  |
|           | 1501       |            |            | 1550                   |
| CIP       | CGTTGGACCG | CAACCGCCTG | ACGCGTGAGT | GGTTCCACTC CGGTCGCGCT  |
| CRM270    | CGTTGGACCG | CAACCGCCTG | ACGCGTGAGT | GGTTCCACTC CGGTCGCGCT  |
| CRM020    | CGTTGGACCG | CAACCGCCTG | ACGCGTGAGT | GGTTCCACTC CGGTCGCGCT  |
| Consensus | CGTTGGACCG | CAACCGCCTG | ACGCGTGAGT | GGTTCCACTC CGGTCGCGCT  |
|           | 1551       |            |            | 1600                   |
| CIP       | GCGTACGAAG | TGACGGGTGC | GGGCTCGGAC | ACCTTCGAGG GCACCCTGGA  |
| CRM270    | GCGTACGAAG | TGACGGGTGC | GGGCTCGGAC | ACCTTCGAGG GCACCCTGGA  |
| CRM020    | GCGTACGAAG | TGACGGGTGC | GGGCTCGGAC | ACCTTCGAGG GCACCCTGGA  |
| Consensus | GCGTACGAAG | TGACGGGTGC | GGGCTCGGAC | ACCTTCGAGG GCACCCTGGA  |
| 1601      |            |            |            | 1650                   |
| CIP       | GTTGGGTTAC | CAGGTTGGTT | ACCCGTGGTC | GTTGGGTGTG GGTTTGAACT  |
| CRM270    | GTTGGGTTAC | CAGGTTGGTT | ACCCGTGGTC | GTTGGGTGTG GGTTTGAACT  |
| CRM020    | GTTGGGTTAC | CAGGTTGGTT | ACCCGTGGTC | GTTGGGTGTG GGTTTGAACT  |
| Consensus | GTTGGGTTAC | CAGGTTGGTT | ACCCGTGGTC | GTTGGGTGTG GGTTTGAACT  |

|           |                                                        |      |
|-----------|--------------------------------------------------------|------|
|           | 1651                                                   | 1700 |
| CIP       | TCAACTACAC GACGCCCAAC ACCTCGATTG TCTACGGTAT TCCGAACGCG |      |
| CRM270    | TCAACTACAC GACGCCCAAC ACCTCGATTG TCTACGGTAT TCCGAACGCG |      |
| CRM020    | TCAACTACAC GACGCCCAAC ACCTCGATTG TCTACGGTAT TCCGAACGCG |      |
| Consensus | TCAACTACAC GACGCCCAAC ACCTCGATTG TCTACGGTAT TCCGAACGCG |      |
|           | 1701                                                   | 1750 |
| CIP       | TTCGGCGGTA CTCCCGAGGC CTCGTATGTG CAGACGACCA ACCTGTTGCC |      |
| CRM270    | TTCGGCGGTA GCCCGGAAGC GTCATATGTG CAGACGACCA ACCTGTTGCC |      |
| CRM020    | TTCGGCGGTA GCCCGGAAGC GTCATATGTG CAGACGACCA ACCTGTTGCC |      |
| Consensus | TTCGGCGGTA ctCCcGAGgc cTcgtATGTG CAGACGACCA ACCTGTTGCC |      |
|           | 1751                                                   | 1800 |
| CIP       | CAGTGCCGGT ATCAATGTG ACTTGGGCAA CGGCCCGGC ATTGAGGAAG   |      |
| CRM270    | CAGTGCCGGT ATCAATGTG ACTTGGGCAA CGGCCCGGC ATTGAGGAAG   |      |
| CRM020    | CAGTGCCGGT ATCAATGTG ACTTGGGCAA CGGCCCGGC ATTGAGGAAG   |      |
| Consensus | CAGTGCCGGT ATCAATGTG ACTTGGGCAA CGGCCCGGC ATTGAGGAAG   |      |
|           | 1801                                                   | 1850 |
| CIP       | TCGCCACCTT CTCAGTGGCT ATCGCCGGTC CGAAGGGTGC GGTGGCGGTG |      |
| CRM270    | TCGCCACCTT CTCAGTGGCT ATCGCCGGTC CGAAGGGTGC GGTGGCGGTG |      |
| CRM020    | TCGCCACCTT CTCGGTAGCG GTTGCCGGTC CGAAGGGTGC GGTGGCGGTG |      |
| Consensus | TCGCCACCTT CTCaTgGct aTcGCCGGTC CGAAGGGTGC GGTGGCGGTG  |      |
|           | 1851                                                   | 1900 |
| CIP       | TCCAACGCGC ACGGCACCGT GACCGGTGCA GCCGGTGGTG TGCTGCTTCG |      |
| CRM270    | TCCAACGCGC ACGGCACCGT GACCGGTGCA GCCGGTGGTG TGCTGCTTCG |      |
| CRM020    | TCCAACGCGC ACGGCACCGT GACCGGTGCA GCCGGTGGTG TGCTGCTTCG |      |
| Consensus | TCCAACGCGC ACGGCACCGT GACCGGTGCA GCCGGTGGTG TGCTGCTTCG |      |
|           | 1901                                                   | 1950 |
| CIP       | TCCCTACGCG CGTTTGATCA GTTCCGCCGG GGACAGTGTG ACCACCTACG |      |
| CRM270    | TCCCTACGCG CGTTTGATCA GTTCCGCCGG GGACAGTGTG ACCACCTACG |      |
| CRM020    | TCCCTACGCG CGTTTGATCA GTTCCGCCGG GGACAGTGTG ACCACCTACG |      |
| Consensus | TCCCTACGCG CGTTTGATCA GTTCCGCCGG GGACAGTGTG ACCACCTACG |      |
|           | 1951                                                   | 1990 |
| CIP       | GCGAGACCTG GGACATGAAG TAACCACCGC CGGACTGG              |      |
| CRM270    | GCGAGACCTG GGACATGAAG TAACT---GC CGGACTGG              |      |
| CRM020    | GCGAGACCTG GGACATGAAG TAACT---GC CGGACTGG              |      |
| Consensus | GCGAGACCTG GGACATGAAG TAACcaccGC CGGACTGG              |      |

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