

CLUSTAL format alignment by MAFFT (v7.511)

```
pl_1      aatcaaagggagcgtgtaataggaggaaatgcaccaatcttttcacacgtgcgaattccc
pl_1 (Sanger) aatcaaagggagcgtgtaataggaggaaatgcaccaatcttttcacacgtgcgaattccc
*****

pl_1      cgaccagcgggggagcacgactaaagcacgccaaggtccggtgcagccacgcgcataga
pl_1 (Sanger) cgaccagcgggggagcacgactaaagcacgccaaggtccggtgcagccacgcgcataga
*****

pl_1      gtcattcctaggtactccgtcatttgccatttgatcacattgacacgtcttgcatatgta
pl_1 (Sanger) gtcattcctaggtactccgtcatttgccatttgatcacattgacacgtcttgcatatgta
*****

pl_1      cagttatccagcccatccttggtttcaccaaagctctccgtcggcaccctgcgcgtctc
pl_1 (Sanger) cagttatccagcccatccttggtttcaccaaagctctccgtcggcaccctgcgcgtctc
*****

pl_1      cgtagcccgcccttaatgccgacaaagcccgagcaccctttgacgtctttcacgtagtc
pl_1 (Sanger) cgtagcccgcccttaatgccgacaaagcccgagcaccctttgacgtctttcacgtagtc
*****

pl_1      gagtgcgaggcct-ccccgtctacgccatcgtgctttgaccatgcaataccacacccaga
pl_1 (Sanger) gagtgcgaggcctccccgtctacgccatcgtgctttgaccatgcaataccacacccaaga
*****

pl_1      aactcc
pl_1 (Sanger) aactca
*****
```

CLUSTAL format alignment by MAFFT (v7.511)

```
pl_2      aatag-ccaaagttgacgagtgaggactgggcccacgttagccaaatcaggcgtccttga
pl_2 (Sanger) tatagccaaaaattgacgagtgaggactgggcccacgttagccaaatcaggcgtccttga
****

pl_2      aacaagtctattgacagccagagcgcccccatagaactgtaatgatctgcgcttttgatg
pl_2 (Sanger) aacaagtctattgacagccagagcgcccccatagaactgtaatgatctgcgcttttgatg
*****

pl_2      gggattccgctcgggcgcgggacggccctgcacaagctaaaaatagcgtcctcagtcacg
pl_2 (Sanger) gggattccgctcgggcgcgggacggccctgcacaagctaaaaatagcgtcctcagtcacg
*****

pl_2      aaatgaggcatgtgagataaacagcaagtgcgctcaatgacgccttgccctacgatttttc
pl_2 (Sanger) aaatgaggcatgtgagataaacagcaagtgcgctcaatgacgccttgccctacgatttttc
*****

pl_2      gcagacacttcctacctggcctcttttaggtcatggtgggtcagtggaatagctgtttag
pl_2 (Sanger) gcagacacttcctacctggcctcttttaggtcatggtgggtcagtggaatagctgtttag
*****

pl_2      tctgcaaagctga
pl_2 (Sanger) cctgcaaagctga
*****
```

CLUSTAL format alignment by MAFFT (v7.511)

```
pl_3      gttatctcacctcgtcttccctcagctctggccggttagcaggtcgtcagtcagatgctg
pl_3 (Sanger) gttatctcacctcgtcttccctcagctctggccggttagcaggtcgtcagtcagatgctg
*****

pl_3      cattgtctctgcacaccaccacgcgcacgttggttaacttgatgccaattgcggcacgatcg
pl_3 (Sanger) cattgtctctgcacaccaccacgcgcacgttggttaacttgatgccaattgcggcacgatcg
*****

pl_3      agctgccatctggaacagactgagactcgattgtgtatgcagctcgacgcttgattttct
pl_3 (Sanger) agctgccatctggaacagactgagactcgattgtgtatgcagctcgacgcttgattttct
*****

pl_3      gtcttaatagacctaaagacgaagatggcaacattcaattcatcctagtgtggttgaaacgg
pl_3 (Sanger) gtcttaatagacctaaagacgaagatggcaacattcaattcatcctagtgtggttgaaacgg
*****

pl_3      ccgtgcttcgcaattcgcaagttggagtggtccgttccaactggatcacgtgctctag
pl_3 (Sanger) ccgtgcttcgcaattcgcaagttggagtggtccgttccaactggatcacgtgctctag
*****

pl_3      cgttatgattgcctt--
pl_3 (Sanger) cgttatgattgcctga
*** **.*
```

CLUSTAL format alignment by MAFFT (v7.511)

```
p1_4      cgatgactgtcaaacactggcgatatctctcccaactgacagtagtcagacaatattgca
p1_4 (Sanger) cgatgactggcaaacactggcgatatctctcccaactgacagtagtcagacaatattgca
*****

p1_4      ctcgctgcatgctgtaaggcaagaggaacgccatgaagtgtttcggctatcgcagtaagg
p1_4 (Sanger) ctcgctgcatgctgtaaggcaagaggaacgccatgaagtgtttcggctatcgcagtaagg
*****

p1_4      tggcttttcgacttcggtggtac-gctgtttgtacgtatggcacacgcgcggtccacaa
p1_4 (Sanger) tggcttttcgacttcggtggtactgctgtttgtacgtatggcacacgcgcggtccacaa
*****

p1_4      gagttgttt-ggcacgttttacgctgagtgtcccgatggcgatgactgcgtggggcgga
p1_4 (Sanger) gagttgtttgggcatcgtttacgctgagtgtcccgatggcgatgactgcgtggggcgga
*****

p1_4      cgcgcgctgctagcctagcgttttcgctagtaaatgaggatattcgagcaattcccacaa
p1_4 (Sanger) cgcgcgctgctagcctagcgttttcgctagtaaatgaggatattcgagcaattcccacaa
*****

p1_4      gatttaactcgtta-tgtagggtgctcctgctcatcgcggttgcgaggactacaagccac
p1_4 (Sanger) gatttaactcgttatgtagggtgctcctgctcatcgcggttgcgaggactacaagccac
*****

p1_4      tcttgacgctgtttgtata-
p1_4 (Sanger) tcttgacgctgtttgtataa
*****
```

CLUSTAL format alignment by MAFFT (v7.511)

```
p1_5      ctctagtttagcttcggttcagctgactgttggcataccttaccttggcgcatctttctt
p1_5 (Sanger) ctctagtttaacttcggttcagctgactgttggcataccttaccttggcgcatctttctt
*****

p1_5      ccategcctcctgctcagctagggccgacaacttcggttcgagctgtgcaattttggcggtt
p1_5 (Sanger) ccategcctcctgctcagctagggccgacaacttcggttcgagctgtgcaattttggcggtt
*****

p1_5      ggccatggcgagttggcaagctgtgctgtgtagcaaatgatggaggaacccgatttctgga
p1_5 (Sanger) ggccatggcgagttggcaagctgtgctgtgtagcaaatgatggaggaacccgatttctgga
*****

p1_5      tcgcaaatcaaatgggtggccgctgcgggcaatgccaaatgcagaagcgcctttcaac
p1_5 (Sanger) tcgcaaatcaaatgggtggccgctgcgggcaatgccaaatgcagaagcgcctttcaac
*****

p1_5      gaagcttgagctgcagcccgatattataatgttcatacgcatacgcagcgaatgctg
p1_5 (Sanger) gaagcttgagctgcagcccgatattataatgttcatacgcatacgcagcgaatgctg
*****

p1_5      cgatgcaacaccaatgtcacggatttctagtgcagatggcgccgaaaaagcatatccac
p1_5 (Sanger) cgatgcaacaccaatgtcacggatttctagtgcagatggcgccgaaaaagcatatccac
*****

p1_5      cggtcgttctatcgaatgagacaaccttgagcat-c
p1_5 (Sanger) cggtcgttctatcgaatgagacaaccttgagcatga
*****
```

CLUSTAL format alignment by MAFFT (v7.511)

```
p1_6      tttccatcagatttcaccagagttctcattttctactgaggcataatgaggcaactgacc
p1_6 (Sanger) tttccatcagatttcaccagagttctcattttctactgaggcataatgaggcaactgacc
*****

p1_6      cgcgacattataaatcatactcgcaggcggaatacagtggtcaactaggaatgaaagcaa
p1_6 (Sanger) cgcgacattataaatcatactcgcaggcggaatacagtggtcaactaggaatgaaagcaa
*****

p1_6      agactcgagctacaccctattggatctcgcgcctgatctcctttctcggtggagcgag
p1_6 (Sanger) agactcgagctacaccctattggatctcgcgcctgatctcctttctcggtggagcgag
*****

p1_6      gttgcttgcatgtatgaggcagactccagcatcagaatggtcgaaccacaaagcaa
p1_6 (Sanger) gttgcttgcatgtatgaggcagactccagcatcagaatggtcgaaccacaaagcaa
*****

p1_6      tggaccacgatggacttgatgcctctgtccaagccgaaggcgactaccgcagataaca
p1_6 (Sanger) tggaccacgatggacttgatgcctctgtccaagccgaaggcgactaccgcagataaca
*****

p1_6      ccgcaataacgcgaaaaattgccgtaaaagagcaatatattcgtgatctcaggaatgaga
p1_6 (Sanger) ccgcaataacgcgaaaaattgccgtaaaagagcaatatattcgtgatctcaggaatgaga
*****

p1_6      ttcaatcgctccaagttcatagggcaatgcttctt--
p1_6 (Sanger) ttcaatcgctccaagttcatagggcaatgcttcttga
*****
```

CLUSTAL format alignment by MAFFT (v7.511)

```
p1_7      tcttgtaggggtgaaatgtcgacatcacggcgatgtgagacgctctccatgtgtggaagg
p1_7 (Sanger) tcttgtaggggtgaaatgtcgacatcacggcgatgtgagacgctctccatgtgtggaagg
*****

p1_7      cgaggcggtggaaggccggacaccgtgagactcttggaactacagcgtggttgc aaagac
p1_7 (Sanger) cgaggcggtggaaggccggacaccgtgagactcttggaactacagcgtggttgc aaagac
*****

p1_7      ttggactattgcacagcttgtcgaggacttcgagcgaatgctataaccctogatttacgtg
p1_7 (Sanger) ttggactattgcacagcttgtcgaggacttcgagcgaatgctataaccctogatttacgtg
*****

p1_7      catcgcaatttcagcgggtcgcggtgcacttggaactcctattgcttgcgccagtgaactg
p1_7 (Sanger) catcgcaatttcagcgggtcgcggtgcacttggaactcctattgcttgcgccagtgaactg
*****

p1_7      atggatgcagactgtcgtgtgacgacggctggttgacctgagacttctagctttatgtat
p1_7 (Sanger) atggatgcagactgtcgtgtgacgacggctggttgacctgagacttctagctttatgtat
*****

p1_7      ctagtccaacataactgcccagattacgatcgcccatgtgaggaagacataatagcagcgt
p1_7 (Sanger) ctagtccaacataactgcccagattacgatcgcccatgtgaggaagacataatagcagcgt
*****
```

CLUSTAL format alignment by MAFFT (v7.511)

```
p1_8      gtcttgcaatcctagtcgatataatacaagacctgaccgatctggcagaaaatggggcgac
p1_8 (Sanger) gtcttgcaatcctagtcgatataatacaagacctgaccgatctggcagaaaatggggcgac
*****

p1_8      cccaatggctccgggtgacacacgccacatgggaactacgatcgccggccgagagccat
p1_8 (Sanger) cccaatggctccgggtgacacacgccacatgggaactacgatcgccggccgagagccat
*****

p1_8      gtgcacttcgtgaagtcacggttcgatgaaagctttatatcagggtcgctccggcagacg
p1_8 (Sanger) gtgcacttcgtgaagtcacggttcgatgaaagctttatatcagggtcgctccggcagacg
*****

p1_8      cttctcagtcgtggtgcgcgcgctttccacattgttcaagtgtaggtgttgcatcgg
p1_8 (Sanger) cttctcagtcgtggtgcgcgcgctttccacattgttcaagtgtaggtgttgcatcgg
*****

p1_8      ccaaaaggatttgagacttttgaccagctaaggatgtgcggaaccacacaactctgcaca
p1_8 (Sanger) ccaaaaggatttgagacttttgaccagctaaggatgtgcggaaccacacaactctgcaca
*****

p1_8      agcgattctagggcagtcacaagaggggcgtttgtcattcattctccc
p1_8 (Sanger) agcgattctagggcagtcacaagaggggcgtttgtcattcattctccc
*****
```

CLUSTAL format alignment by MAFFT (v7.511)

```
p1_9      gacaatgttccaaaaggcaaaagtcctgtggtatgattttgtctgagatgctgtgagagga
p1_9 (Sanger) gacaatgttccaaaaggcaaaagtcctgtggtatgattttgtctgagatgctgtgagagga
*****

p1_9      tcaccagctcgatttggaagaaatcgtaaggttatggcgtgtgttgc aaacattgtctg
p1_9 (Sanger) tcaccagctcgatttggaagaaatcgtaaggttatggcgtgtgttgc aaacattgtctg
*****

p1_9      tttcgccatcgcttctccagggcatcgcgaggcacccgccacaaaaggaaaccaattacc
p1_9 (Sanger) tttcgccatcgcttctccagggcatcgcgaggcacccgccacaaaaggaaaccaattacc
*****

p1_9      gtgcaagccagatgtaacgagcttggcatcccgatcacgcttttcagaagcttccggaat
p1_9 (Sanger) gtgcaagccagatgtaacgagcttggcatcccgatcacgcttttcagaagcttccggaat
*****

p1_9      tggaagactgccctgacgaaggtatgctggctgacggaaggcccgctgatggggtcgtc
p1_9 (Sanger) tggaagactgccctgacgaaggtatgctggctgacggaaggcccgctgatggggtcgtc
*****

p1_9      tttgtaagaagaagaatcgctctgccagaaacttatccaatg--
p1_9 (Sanger) tttgtaagaagaagaatcgctctgccagaaacttatccaatg--
*****
```

CLUSTAL format alignment by MAFFT (v7.511)

```
pl_10      cggctgttggtgaggtttaccagcaaccgtcaatctacacactgcacgcattaagtgggc
pl_10(Sanger) cggctgttggtgaggtttaccagcaaccgtcaatctacacactgcacgcattaagtgggc
*****

pl_10      tcgttagctgacccaacacgtccgtctagactcaaggtcggcttatgctgeactgcaaac
pl_10(Sanger) tcgttagctgacccaacacgtccgtctagactcaaggtcggcttatgctgeactgcaaac
*****

pl_10      tggttgtgccgcaccaataactccggcgggtctcaggtcacccatcttgtcgtcctagg
pl_10(Sanger) tggttgtgccgcaccaataactccggcgggtctcaggtcacccatcttgtcgtcctagg
*****

pl_10      cgagcgtctttaccaacactactcacgcgagacccgtagtgccacggaggcccccag
pl_10(Sanger) cgagcgtctttaccaacactactcacgcgagacccgtagtgccacggaggcccccag
*****

pl_10      ctggcttacaagcttggaggagcacgttggacgctccgggggaaggggtgggagctagtca
pl_10(Sanger) ctggcttacaagcttggaggagcacgttggacgctccgggggaaggggtgggagctagtca
*****

pl_10      acg
pl_10(Sanger) aca
**.
```