

Supplementary Information. Sequences of full length PspC variants and truncated protein fragments (in grey).

PspC Var-I

1 10 20 30 40 50
| | | | | |
ATGTTTGCATCAAAAAGCGAAAAGTACATTATTCAATTCGTAAATT
TAGTGTTGGAGTAGCTAGTGTAGTAGTTGCTAGCTTGTTCTTAGGAGGAG
TAGTCCATGCAGAAGGGGTTAGAAGTGGGGATACCCCAAGGTTACATCT
AGTGGGCAAGATATATCGAAGAAGTATGCTGATGAAGTCAAGTCGCATCT
AGAAAAAATATTGAGTGAGATCCAATTAGATAAAAAGAAAACATACCCAAA
ATCTCGCCTTCAACA AAAAGTTGAGCAGAATTCAAACGGAGTATTTCTAT
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AACGTCAAAAACAGAAGAGTTGACGTCAAAAACAAAAAAGAGTTAGACG
CAGCTTTTGAGCAGTTTAAAAAAGATACATTATCAACAGAACCAGAAAAA
AAGGTTGCAGAAGCTCAGAAGAAGGTAGCAGAAGCTAAGAAAAAAGCCGA
GGATCAAAAAGAAGAAGATCGTCGTAAC TACCCAACCAATACTTACAAAA
CGCTTGAAC TTGAAATTGCTGAGTTTCGATGTGAAAGTTAAAGAAGCGGAG
CTTGAAC TATTTAAAAGAGAAAAGCTAAGGAATCTCGAGACGAGGAAAAAAT
TAAGCAAGCAGAAGCGGAAGTTGAGAGTAAACAAGCTGAGGCTACAAGGT
TAGAAAACATCAAGACAGATCGTAAAAAAGCAGAAGAAGAAGCTAAACGA
AAAGCAGATGCTAAGTTGAAGGAAGCTAATGTAGCGACTTCAGATCAAGG
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CTGATAAAAAGAAAATGATGCGAAGTCTTCAGATTCTAGCGTAGGTGAA
GAAACTCTTCCAAGCTCATCCCTGAAATCAGGAAAAAAGGTAGCAGAAGC
TGAGAAGAAGGTTGAAGAAGCTGAGAAAAAAGCCAAGGATCAAAAAGAAG
AAGATCGCCGTAAC TACCCAACCAATACTTACAAAACGCTTGAAC TTGAA
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AGAGGAAGCTAAGGAACCTCGAGACGAGGAAAAAATTAAGCAAGCAAAAAG
CGGAAGTTGAGAGTAAACAAGCTGAGGCTACAAGGTTAGAAAAAATCAAG
ACAGATCGTAAAAAAGCAGAAGAAGAAGCTAAACGAAAAGCAGCAGAAGA
AGATAAAGTTAAAGAAAAACCAGCTGAACAACCACAACCAGCGCCGGCTC
CTCAACCAGAAAAACCAGCTCCAAAACCAGAAAAACCAGCTCCAGCTCCA
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TGATGGTTCAATGGCGACAGGATGGCTCCAAAACAATGGCTCATGGTACT
ACCTCAACAGCAATGGCGCTATGGCGACAGGATGGCTCCAAAACAATGGT
TCATGGTACTATCTAAACGCTAATGGTTCAATGGCAACAGGATGGCTCCA
AAACAATGGTTCATGGTACTACCTCAACGCTAATGGTTCATGGCGACAG
GATGGCTCCAATACAATGGTTCATGGTACTACCTCAACGCTAATGGTGAT
ATGGCGACAGGATGGCTCCAAAACAATGGCTCATGGTACTACCTAAACGC
TAATGGTGATATGGCGACAGGATGGCTCCAAAACAACGGTTCATGGTACT
ACCTAAACAGCAATGGTGCTATGGTAACAGGATGGCTCCAAAACAATGGC
TCATGGTATTACCTCAACGCTAATGGTGATATGGCGACAGGTTGGGTGAA
AGATGGAGACACCTGGTACTATCTTGAAGCATCAGGTGCTATGAAAGCAA
GCCAATGGTTCAAAGTATCAGATAAATGGTACTATGTCAATGGCTCAGGT
GCCCTTGACGTCAACACAACCTGTAGATGGCTATGGAGTCAATGCCAATGG
TGAATGGGTAAAC

PspC Var-II

1 10 20 30 40 50
| | | | | |
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TAGTATTGGAGTAGCTAGTGTAGTAGTTGCCAGCTTGTTCTTAGGAGGAG
TAGTCCATGCAGAAGGGGTTAGGAGTAAGAATAACCTCACGGTTACATCT

AGTGGGCAAGATATATCGAAGAAGTATGCTGATGAAGTCGAGTCGCATCT
ACAAAGTATATTGAAGGATGTCAATAAAAAATTTGAAAAAGTTCAACATA
CCCAAATGTGCGACTTCAACAAAAAGTTGAGCAGAATTA AACCGAAGTAT
TTGTATGGATTA AAAAGAGAAGTCGGAAGCTGAGTTGACGTTAAAAACAAA
AGAAACAAAAGAAGAGTTAACCGCAGCTTTTGAGCAGTTTAAAAAGATA
CATTGAAATCAGGAAAAAGGTAGCAGAAGCTGAGAAAAAGCCAAAGCT
CAAAAAGAAGAAGATCGCCGTA ACTACCCAACCAACTTACAAAACAAT
CGAACTGGAAATTGCGGAAGCAGAAGTAGGGGTCGCCAAGGCAGAGCTTG
AGCTTGAGTTTGCACAAGCTCAAGTTCAAATACCTCAAGATACTGAGAAA
ATTAATGCTGCTAAATCTAAAGTAGAAGCTGCTAAAAGTAATGTTAAAA
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GAAATAAAAGCTAAGGGCAGAGTCAAAAATTATGAAGAGGCTAATATTGA
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ACCAACCAGCACCCCAACCAGGAGGACAAGCAGGTGGTTCAATGGTTGTA
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GGCGACCGAAGCTGAAAAGAAAAAGTTACAAGACTTGATTTCGTCAATTCC
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TGACAATGGATGAATTGGCAATGCAATTAACCAAATTGAACGATGCCATG
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CAAGTTCCGGAAGCACCAAAGAGCCCAGAGGTACCAAAGGTTCCAGATAC
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AGGTACCAAAGGTTCCAGATACACCAAAGGCTCCGGACACACCCGCAAGTT
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TCCGGACACACCCGAGGTTCCAGAAGCACCAAAGAGCCCAGAGGTACCAA
AGGTTCCAGAAGCACCAAAGGCTCCAGACACACCCGCAAGTTCCGGAAGCA
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CAGATACACCAAAGGCTCCGGACACACCCGAGGTTCCAGAAGCACCAAAG
GCTCCAGACACACCCGCAAATTCCGGAAGCACAGCTCCAGAAACTCCGGC
TCCAGCTCCAGAAGCTCCAAAAACAGGCTGGAAACAAGAAAACGGTATGT
GGTACTTCTACAATACTGATGGTTCAATGGCAACAGGCTGGCTAGAATAC
AATGGCTCATGGTACTATCTCAACGCTAATGGTGCTATGGCAACAGGTTG
GCTAGAATACAATGGTTCATGGTACTACCTCAATACTAATGGTGCTATGG
AGACAGGTTGGCTAGAATACAATGGTTCATGGTACTACCTCAATACTAAT
GGTGCTATGGAGACAGGTTGGCTAGAATACAATGGTTCATGGTACTACCT
NN
NN

NN
NN
AATGGTTCATGGTACTACCTCAATAC

PspC Var-III

1 10 20 30 40 50
| | | | | |
ATGTTTAAATCAAATTATGAAAGAAAAATGTGCTATTCTATTTCGAAAATT
TAGTATAGGAGTAGCTAGTGTAGCTGTTGCCAGTCTTGTTATGGGAAGTG
TGGTTCATGCGACAGAGAACGAGGGAACTACCCAAGCACCCACTTCTTCT
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ACGAGATAAGGTAAAGAAAGAGGTGAGGGAATATAAAGAAAAAAAAGTGA
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TCAATCAACCTCAACATACGAAGAAGTACAGAACTGATGATGGAGAGTC
AATCAGAAGTAGATAAAGCTGTGTCTGAATTTGAAAAGGACTTATCTTCT
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GCCAAACAAGCCGACAGAAGTAAAGGTAAGGTAAGGTAAGGTAAGGTAAGG
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CAGCGACTTCAGAGCAAGGTAACCAAGAGGCGGGTAAAACGAGGAGCT
CTTGAGAGCAAGCAACACCTGATAAAAAAGATTATTTGAAAAGACTT
CCGTCCAGCTTTCAATAAAAAACCAGCAGATGGTAGCCATTCAAGAATCCT
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ACAGGAGAAGCTGAAAATGCCTATAATGAGGTGAGAGATTATGCAATAAA
AGTTGTTTCTGAAAACAAGAACTTCTATCACAGACAGCAGTGACAATGG
ATGAACTGGCAATGCAATTAACCAATTGAACGATGCCATGTCTAAATTG
AAAGAAGCTAAAGCGAAATTTGGTACCAGAGGTTAAACCGCAGCCGAAAA
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CTCAACCAGAGGGTAAGAAACCAAGCGTACCAGATATTAATCAGGAAAA
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TATACAAAACATCATCTGCAGAAAGAAAAACATCGTCAGATTGTTGCTC
TTATTAAGGAGCTTGATGAGTTTAAAAAGCAAGCTCTTCTGAAATTGAT
AATGTAAATACCAAAGTAGAAATTGAAAATACAGTCCACAAGATATTTGC
AGACATGGATGCAGTTGTGACTAAATTCAAAAAGGCTTAACTCAGGACA
CACAAAAGAACCAGATAACAAAAGCCATCTGCTCCAAAACCAGGTATG
CAACCAAGTCTCAACCAGAAGGCAAGAAACATAATAAAAACACCCCAA
AGTTAGATTTTTTCTGTCTAACTTTTTGGGGTGTAGTTTCATTTTGAGCTTT
CCCGTTTTTCTGAGTTG

PspC Var-IV

1 10 20 30 40 50
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ATGTTTGCATCAAAAAGCGAAAAGAAAAGTACATTATTCAATTCGTAAATT
TAGTATTGGAGTAGCTAGTGTAGCTGTTGCCAGTCTTGTTATGGGAAGTG
TGGTTCATGCGACAGAGAACGAGGGAAAGTACCCAAGCAGCCACTTTTTCT
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AGATAAGGCAAAGACAGCGGTGAGTGAATATAAAGAAAAAAAAGTGAGTG
AGATCTATACAAAATTAGAGAGAGATAGACATAAAGATACTGTAGATCTA
GTTAACAAGTTGCAAGAGATTAAGAACGAGTATTTGAATAAAATAGTTGA
ATCAACCTCAAAAATCGAAATACAGGGACTTATTACAACAAGTCGATCAA
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AGTTCAGGCTCCTCCACTAAACCAGAACTCCGCAGCCGGAACATCAAA

ACCAGAGGTTAAACCAGAGCCGGAAACACCAAAACCAGAGGTTAAACCAG
AGCCGGAAACACCAAAACCAGAGGTTAAACCAGAGCCGGAAACACCAAAA
CCAGAGGTTAAACCAGAGCCGGAAACACCAAAACCAGAGGTTAAACCAGA
GCCGGAAACACCAAAACCAGAGGTTAAACCAGAGCCGGAAACACCAAAAC
CAGAGGTTAAACCAGAGCCGGAAACACCAAAACCAGAGGTTAAACCAGAG
CCGGAAACACCAAAACCAGAGGTTAAACCAGAGCCGGAAACACCAAAACC
AGAGGTTAAACCAGAGCCGGAAACACCAAAACCAGAGGTTAAACCAGAGC
CGAAACACCAAAACCAGAGGTTAAACCAGAGCCGGAAACACCAAAACCA
GAGGTTAAACCAGAGCCGGAAACACCAAAACCAGAGGTTAAACCAGAGCC
GGAAACACCAAAACCAGAGGTTAAACCAGAGCCGGAAACACCAAAACCAG
AGGTTAAACCAGAGCCGGAAACACCAAAACCAGAGGTTAAACCAGAGCCG
GAAACACCAAAACCAGAGGTTAAACCAGAGCCGGAAACACCAAAACCAGA
GGTTAAACCAGATAATAGCAAGCCACAAGCAGATGATAAGAAGCCATCAA
CTCAAATAATTTAAGCAAGGACAAGCAATCTTCTAACCAAGCTTCAACA
AACGAAAACAAGAAGCAAGGTCCAGCAACAATAAACCGAAGAAGTCATT
GCCATCAACTGGATCTATTTCA