

## STRUCTURAL BIOLOGY

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Supporting information for article:

Crystallization and preliminary X-ray crystallographic studies of dipeptidyl peptidase 11 from Porphyromonas gingivalis

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 Optimized 101 A TATGCCCAGATGAAAGAACGCGGTCTGAAAATGAAAGAATACGATCTGTACAACCCGAATGGCACCTCACTGAAAGACGCGGTGGTTCTGTTTGATGG
AA seq. $\quad 68 \mathrm{G}$ C T G E V V S D R G L V L T N H H C G G Y D M I Q A H S T L E E H N $\begin{array}{ll}\text { Native } & 201 \text { AGGATGTACGGGCGAGGTCGTTTTCCGATCGCGGACTGGTA CTGACCAATCACCACTGCGGATACGATATGATCCAGGCTCACAGCACGCTCGAGCATAAC } \\ \text { Optimized } & 201 \text { CGGTTGCACCGGCGAAGTGTGGCGGATCGTGGTCTGGTCTGACGAACCATCACTGTGGCTATGACATGATTCAGGCCATAGCACCTGGA CACAAC }\end{array}$
 AA seq. $\quad 135 \mathrm{~V}$ K K E L K A I K D P N S M D Y L S

 Optimized 501 CTTTAGCGCAAAAAATCGGGGTGTGTCTGTTGAAATTAAAGCTTTTTATGGGGGTAATCTGTACCTGATGTTCACCAAAAAAACCTATACGGATGTTCGT

AA seq. 201 L V G A P P S S I G K F G A D T D N W I W P R H T G D F S I F R I Y Native 601 CTGGTGGGAGCACCTCCCAGCAGCATAGGCAAATTCGGTGCCGATACGGACAACTGGATCTGGCGTCGTCATACTGGCGACTTCTCCATCTTCCGTATCT Optimized 601 CTGGICGGCGCACCGCCGAGCTCTATTGGCAAATTCGGTGCCGATACCGACAACTGGATCTGGCCGCGTCATACGGGCGACTTTAGCATTTTCCGCATCT
 Native
Optimized
701
ATGCAGATAAAAAGGGTAATCGGGCTCCGTACAGCGAAGATAATGTCCCGCTGAAACCGAAACGCTITTTCAAACATTTCTCTGGGCGGTGTCAAGAAAA
 Optimized 801 TGATTATGCGATGATCATGGGCTTTCCGGGTACCACGCACCGCTACITCACGGCCAGTGAAGTGGATGAATGGAAATCCATTGATAACGACATTCGCATC
 $\begin{array}{ll}\text { Native } & 901 \text { CGCATGCGTGATATTCGTCAGGGTGTCATGCTTAGGGAAATGCTGGCCGATCGTCAGATCAAAATCATGTATTCAGGTAAATATGCCGCTTCGCAGAATG } \\ \text { Optimized } \\ 901 \text { CGTATGCGCGATATCGGTCAAGGTGTIATGCTGCGGGAAAGCTGGGGGACCCGCAGATAAAATCATGTATTCAGCGAAATACGCGGCCTCGCAAACG }\end{array}$
 Optimized 1001 GCTATAAACGCGCGATTGGCGCCAATIGGGCAATCAAAACCGTGGTCTGCGCCAGAATAAACA GCAATGCAGGATCGTCTGATTGCGTGGGGGGCGAA
 Optimized 1101 ACAGGGTACCCCGCGCTATGAAGAAGCGGTTCATGAAATTGACGCCACGGTCGCAAAACGTGCTGATCTGCGTCGCCGTTACTGGATGATCGAAGAAGGC



 Optimized 1401 AATTCCGTACGAAAACCTGCCGCTGCACCTGCGTCTGGTGAAAGACCGCTTTGCGGGCGATGTTCAAGCCTATGTCGATGACATCTTTGCCCGTAGCGTT
 Optimized 1501 TTCGGTTCTGAAGCACAGTTTGATGCTTTCGCAGCTGTGCCGTCCGTTGAAAAACTGGCAGAAGATCCGATGGTCCTGTTTGCTAGITCCGTGITCGACG
 Optimized 1601 AATATCGTAAACTGIACAATGAACTGCGCCCGTATGATGACCCGATTCTGCGCGCCCAGCGTACCTACATTGCGGGTCTGCTGGAAATGGATGGTGACCA
 $\begin{array}{lll}\text { Native } & 1701 & \text { GGATCAATTCCCGGATGCTAACCTGACACTTCGTTTCACCTATGGTCAAGTGAAGGGCTATTCACCCCGTGACAATGTTTACTACGGACATCAAACCACA } \\ \text { Optimized } & 1701 & \text { GGATCAATTTCCGGATGCGAACCTGACCCTGCGTTTCACGTATGGCCAAGTGAA GGTTACAGTCCGCGCGATAATGTTTATTACGGCCATCAGACCACG }\end{array}$

 Optimized 1901 CCGATCGTAGCGGTCGCATGCCGGTTGCCTTTTGTGCAACCACCCACACCACGGGCGGTAATTCAGGCTCGCCGGTCATGAACGCCAATGGCGAACTGAT
 $\begin{array}{ll}\text { Native } 2001 \text { CGGTCTCAACTTCGATCGTAACTGGGAGGGAGTCGGTGGCGACATCCA TATCTGGCCGACTACCAGCGCAGCATCATTGTGGATATTCGCTACGTCCTG } \\ \text { Optimized } 2001 & \text { TGGTCTGAACTTTGATCGCAATTGGGAGGGTGTGGGCGGTGACATTCAATATCTGGCAGATTACCAGCGTTCTATTATCGTGGATATCCGCTATGTTCTG }\end{array}$


Figure S1. Optimization of PgDPP11 DNA sequence. AA seq., amino acid sequence of PgDPP11 (UniProt accession number: B2RID1); Native, native DNA sequence of PgDPP11 from Porphyromonas gingivalis ATCC 33277 (GenBank accession number: AP009380); Optimized, codon-optimized DNA sequence of PgDPP11 used in this study.

