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(71) Applicants: **DENTERIC PTY LTD** [AU/AU]; Level 9, 31 Queen Street, Melbourne, Victoria 3000 (AU). **ORAL HEALTH AUSTRALIA PTY LTD** [AU/AU]; Level 6, 720 Swanston Street, Carlton, Victoria 3053 (AU).

(72) Inventor: **REYNOLDS, Eric Charles**; c/- Level 9, 31 Queen Street, Melbourne, Victoria 3000 (AU).

(74) Agent: **FPA PATENT ATTORNEYS PTY LTD**; Level 19, South Tower, 80 Collins Street, Melbourne, Victoria 3000 (AU).

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(54) Title: CHIMERIC POLYPEPTIDES

(57) Abstract: A chimeric or fusion protein for inducing an immune response to *P. gingivalis*, the protein comprising a first polypeptide linked to a second polypeptide, wherein: A) the first polypeptide comprises or consists of an amino acid sequence of the active site of an Arg- or Lys-gingipain of *P. gingivalis*, or a sequence that is at least 80% identical thereto; and B) the second polypeptide comprises or consists of an amino acid sequence of an adhesin domain of an Arg- or Lys-gingipain of *P. gingivalis*; and wherein the second polypeptide: a) does not comprise part or all of the sequence of a cleaved adhesin domain (CAD), preferably; and/or b) comprises an amino acid sequence corresponding substantially to the full length of the DUF2436 domain of an Arg- or Lys-gingipain, or a sequence at least 80% identical thereto.



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