

**COMPOSITIONS AND METHODS FOR THE
PREVENTION AND DIAGNOSIS OF LYME DISEASE**

ABSTRACT

Methods and compositions for the prevention and diagnosis of Lyme disease. OspA and OspB polypeptides and serotypic variants thereof, which
5 elicit in a treated animal the formation of an immune response which is effective to treat or protect against Lyme disease as caused by infection with B. burgdorferi. Anti-OspA and anti-OspB antibodies that are effective to treat or protect against Lyme
10 disease as caused by infection with B. burgdorferi. A screening method for the selection of those OspA and OspB polypeptides and anti-OspA and anti-OspB antibodies that are useful for the prevention and detection of Lyme disease. Diagnostic kits including
15 OspA and OspB polypeptides or antibodies directed against such polypeptides.