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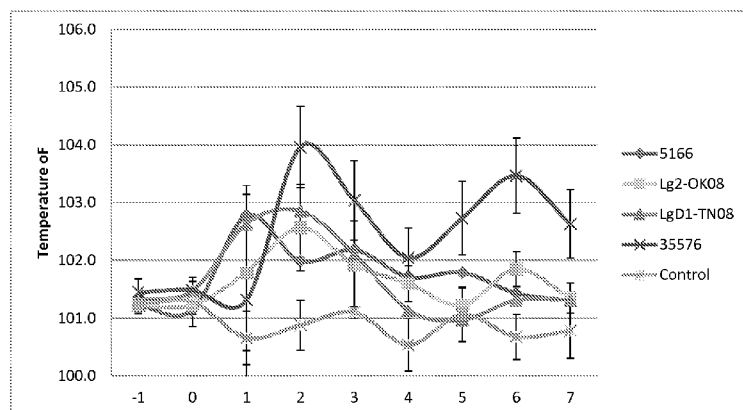
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(54) **Title:** OUTER MEMBRANE PROTEINS OF HISTOPHILUS SOMNI AND METHODS THEREOF

FIG. 1



(57) **Abstract:** The present invention relates to immunological compositions of outer membrane proteins (OMPs) of *H. somni*, as well as methods of extraction, a respiratory challenge model, methods of administration and diagnostic assays and kits.