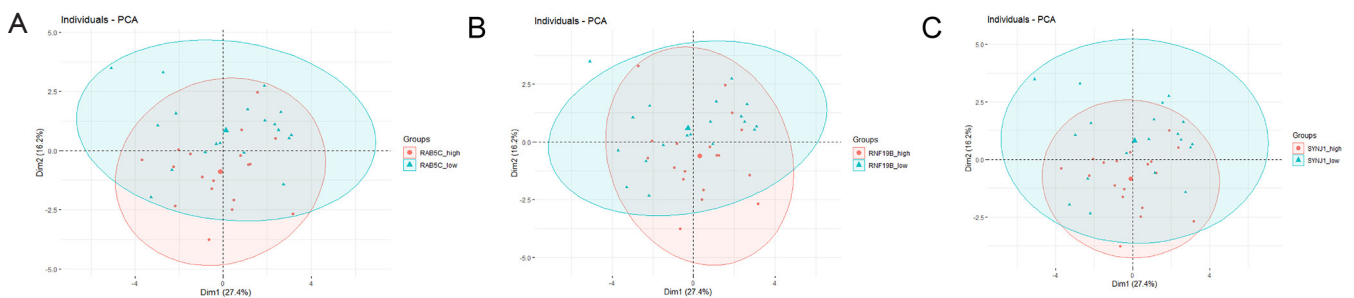


**Figure S1** The expression of *RAB5C*, *RNF19B*, and *SYN1* between the M\_HC and M\_AS groups. (A) The expression of *RAB5C* in M\_AS group was significantly higher than that in M\_HC group. (B) The expression of *RNF19B* in M\_AS group was significantly higher than that in M\_HC group. (C) The expression of *SYN1* in M\_AS group was significantly higher than that in M\_HC group. M\_AS, male AS patients; AS, ankylosing spondylitis; M\_HC, male healthy controls.



**Figure S2** PCA cluster plot of immune cell infiltration between the groups divided by the expression of key genes. (A) PCA cluster plot of immune cell infiltration between the *RAB5C* high expression group and *RAB5C* low expression group. (B) PCA cluster plot of immune cell infiltration between the *RNF19B* high expression group and *RNF19B* low expression group. (C) PCA cluster plot of immune cell infiltration between the *SYN1* high expression group and *SYN1* low expression group. PCA, perform principal component analysis.