ABSTRACT

An object of the present invention is to provide a vector capable of oligodendrocyte-specifically suppressing expression of the PLP1 gene for treating PMD caused by abnormality of the PLP1 gene, and a promoter and miRNA therefor, and a pharmaceutical composition comprising the vector. The oligodendrocyte-specific promoter of the present invention comprises a nucleic acid having a sequence identity of at least 90% to a nucleotide sequence set forth in SEQ ID NO: 1. The miRNA of the present invention specific to the PLP1 gene comprises a pair of nucleotide sequences consisting of a specific antisense sequence and sense sequence.