

ABSTRACT

A problem to be addressed by the present invention is to provide a novel method for efficiently generating a nucleic acid aptamer having high affinity to a target substance. Provided is a single-stranded nucleic acid molecule library comprising a plurality of single-stranded nucleic acid molecules, wherein: the plurality of single-stranded nucleic acid molecules comprise a Ds/Pa'-containing single-stranded nucleic acid molecule, the Ds/Pa'-containing single-stranded nucleic acid molecule comprises a pair of primer-binding regions at the 5' end and 3' end thereof, and a variable region between the pair of primer-binding regions, the pair of primer-binding regions consist of base sequences which are common among the plurality of single-stranded nucleic acid molecules, and the variable region comprises an unnatural base Ds (7-(2-thienyl)-3*H*-imidazo[4,5-*b*]pyridine-3-yl) shown in the general formula (I) and an unnatural base Pa' shown in the following general formula (II).