

**APTAMER FOR SPECIFICALLY RECOGNIZING SOLUBLE ST2 AND
USE THEREOF**

Abstract of the Disclosure

5 The invention discloses a nucleic acid aptamer specifically recognizing soluble ST2 protein and its application, belonging to the field of variation or genetic engineering. The technical problem to be solved by the present invention is how to specifically detect sST2 protein. In order to solve this technical problem, the present invention provides nucleic acid aptamers of single-stranded DNA with nucleotide sequences shown in SEQ ID No. 1-
10 10, respectively. The present invention adopts SELEX technology, combined with high-throughput sequencing technology and bioinformatics analysis, reduces the rounds of screening and obtains candidate nucleic acid aptamers, and further analyzes its affinity and specificity to obtain a nucleic acid aptamer that specifically recognizes sST2 protein. The nucleic acid aptamer of the present invention has the characteristics of high specificity,
15 high stability, convenient synthesis, and easy labeling of functional groups, and the like, and may be used for the detection of sST2 protein and the preparation of biosensors, diagnosis and prognosis of cardiovascular diseases and other products.

[No suitable figure]