

KIT FOR TOGETHER DETECTING MULTIPLE TARGET NUCLEIC ACIDS
DIFFERING FROM EACH OTHER AND DETECTION METHOD USING THE
SAME

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ABSTRACT

Provided is a kit for detecting multiple target nucleic acids capable of simultaneously amplifying and detecting multiple genes by means of one reaction vessel containing one kind of reaction solution and one kind of labels. Solution may contain
10 first target nucleic acid (10) and second target nucleic acid (20) each of which dissociates at denaturation temperature T_0 . The solution further contains: DNA polymerase (30); a first target's primer (13) at annealing temperature T_1 bonding with first single strands derived from the first target nucleic acid; a second target's primer (23) at annealing temperature T_1 bonding with second single strands derived from the
15 second target nucleic acid; a first target's probe (15) at annealing temperature T_1 bonding with the first single strands derived from the first target nucleic acid; and a second target's probe (25) at second target detection temperature T_3 which is lower than the annealing temperature T_1 and elongation temperature T_2 bonding with the second single strands derived from the second target nucleic acid. A condition that: T_0 is higher
20 than T_2 ; T_2 is not lower than T_1 ; and T_1 is higher than T_3 is satisfied.

Figure to be selected: Fig. 36