Title (en)

METHOD OF PREPARING A COLLECTION OF MEANS FOR THE DETECTION OF GENES WHICH CAN BE INDUCED BY AN INFLAMMATION MEDIATOR, AND APPLICATIONS OF SAME

Title (de)

VERFAHREN ZUR HERSTELLUNG EINER SAMMLUNG VON NACHWEISMITTELN VON GENEN, DIE DURCH EINEN ENTZÜNDUNGSMEDIATOR INDUZIERBAR SIND, UND DESSEN VERWENDUNGEN

Title (fr)

PROCEDE POUR PREPARER UNE COLLECTION DE MOYENS DE DETECTION DE GENES INDUCTIBLES PAR UN MEDIATEUR DE L'INFLAMMATION, ET APPLICATIONS

Publication

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Application

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Abstract (en)

[origin: FR2850669A1] Preparing a set of agents (A) for detecting presence of one or more nucleic acids (I), where each (I) results (in)directly from transcription of a gene (B) inducible by a mediator of inflammation, is new. Process for preparing a set of agents (A) for detecting presence of one or more nucleic acids (I), where each (I) results (in)directly from transcription of a gene (B) inducible by a mediator of inflammation comprises first preparing a collection of nucleic acids (Ia) contained within (B) by: (a) selecting, from one or more collections of human sequences that together cover the entire human genome at least once, those sequences that include at least one copy of specific sequences (1)-(4), then forming a first collection of sequences (S1) from each selected sequence, where each S1 comprises (5' to 3') a sequence (1)-(4) followed by 285 consecutive nucleotides (nt) in each selected sequence, immediately 3' to (1)-(4); (b) removing (1)-(4) from each S1, forming a second collection (S2) containing all the modified sequences formed, each of which constitutes a probe; (c) screening S2 for presence of at least one copy of (1)-(4) and eliminating any that contain a copy, resulting in collection (S3) of sequences; (d) screening S3 for Alu and repeat elements and modifying any that contain such elements by masking or by replacing each A,T,G and C in the element by random nucleotides, to form a collection (S4) of all sequences in S3, optionally modified; (e) selecting from one or more collections of sequences comprising human genomic transcription products those sequences that contain at least one sequence present in S4, to produce a collection (S5); (f) selecting from S5 sequences that contain at least 60 consecutive nt that define a chain at least 97% identical with a sequence present in at least one probe of S2 to form a collection (S6) of sequences present in (B). Then a collection of probes (P1) that hybridize specifically with the transcription products of at least one (B) is synthesized, where (B) includes a sequence present in S6, and P1 represents agents (A). Independent claims are also included for: (1) set of agents for detecting (I) comprising, for each (I), at least one specific hybridizing probe prepared by the new method; (2) device for detecting (I) comprising at least one probe prepared by the new method, immobilized on a support; (3) detecting (I), using the set of (1) or the device of (2) in a hybridization test; (4) determining the expression profile of (B) from mRNA, or derived cDNA, of a mammal, by applying it to the set of (1) or the device of (2) and identifying probes that hybridize, or by applying method (3) to the sample; and (5) kit for determining the expression profile of (B) comprising the set of (1) or the device of (2).

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