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**Cleaved
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Polymorphic
Sequence
Caps
Markers In
Plant
Biology
Botanical
Research**

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Polymorphic
Sequences (CAPS)
polymorphisms are
differences in
restriction fragment
lengths caused by
SNPs or INDELS that
create or abolish
restriction
endonuclease
recognition sites in PCR
amplicons produced by
locus-specific
oligonucleotide
primers. How It Works.
The CAPS assay uses

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amplified DNA
fragments that are
digested with a
restriction
endonuclease to
display RFLP.

**Cleaved Amplified
Polymorphic
Sequences (CAPS)**

The cleaved amplified
polymorphic sequence
(CAPS) method is a
technique in molecular
biology for the analysis
of genetic markers. It is
an extension to the

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Polymorphic
Restriction Fragment
Length Polymorphism
(RFLP) method, using
polymerase chain
reaction (PCR) to more
quickly analyse the
results. Like RFLP,
CAPS works on the
principle that genetic
differences between
individuals can create
or abolish restriction
endonuclease
restriction sites, and
that these differences
can be detected in the

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**Cleaved amplified
polymorphic
sequence -
Wikipedia**

Derived Cleaved
Amplified Polymorphic
Sequences (dCAPS)
assay is a modification
of CAPS (or
alternatively, PCR-
RFLP) technique for
detection of Single
Nucleotide
Polymorphisms (SNPs
) . In dCAPS assay a
mismatches in PCR

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Sequences (dCAPS)
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primer are used to
create restriction
endonuclease
(RE)-sensitive
polymorphism based
on the target mutation.
This technique is useful
for genotyping known
mutations and genetic
mapping of isolated
DNAs.

**Derived Cleaved
Amplified
Polymorphic
Sequences (dCAPS)**

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Polymorphic Sequence
(CAPS) Description.

CAPS are DNA
fragments amplified by
PCR using specific
20-25 bp primers,
followed by digestion
of the PCR... Strengths.

Advantages of CAPS
include the
involvement of PCR
requiring only low
quantities of template
DNA, the...

Weaknesses. In ...

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**Polymorphic
Sequence (CAPS) -
WUR**

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Polymorphism
Sequences (CAPS) A
CAPS marker
represents a
refinement of a STS
marker. Where an STS
assay shows no allelic
variation in amplicon
size, it may still be
informative if the
amplicon varies in
sequence between
individuals.

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Polymorphic

**Cleaved Amplified
Polymorphism
Sequences (CAPS)**

V. Cleavable Amplified
Polymorphic
Sequences CAPS
analysis (Konieczny
and Ausubel, 1993),
also known as PCR-
RFLP and MAPREC (Lu
et al., 1993) , is a
technique related to
RFLP analysis in which
restriction site
differences define
polymorphisms

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Sequence

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Sequence - an

overview ...

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polymorphic sequence

(CAPS) marker is the

combination of PCR

and RFLP techniques

where a very small

amount of DNA is

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required for PCR analysis to show polymorphisms. CAPS markers were successfully employed in many perennial plants due to the availability of their nucleotide sequence in public domain.

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Sequence - an
overview ...**

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Sequences (CAPS)
markers are applicable
in a wide range of
tasks in plant biology.
They were developed
recently for plant
genetics and breeding
and have become...

**(PDF) CAPS markers
in plant biology -
ResearchGate**

Introduction to CAPS
•CAP(S): Cleaved/cut
amplified polymorphic
(sequences)

-(Konieczny and
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Polymorphic

Ausubel, 1993) A CAP

is based on a sequence

polymorphism that

creates or eliminates

an restriction

endonuclease (RE, also

restriction enzyme)

recognition site

- Individual A has an MseI recognition site (blue)

Designing CAPS markers using SGN CAPS Designer

The abbreviation for

Cleaved Amplified

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Polymorphic Sequence
is CAPS What is the
meaning of CAPS
abbreviation? The
meaning of CAPS
abbreviation is
"Cleaved Amplified
Polymorphic Sequence"
What does CAPS
mean?

**CAPS - Cleaved
Amplified
Polymorphic
Sequence**

The book deals with
one type of molecular

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markers, Cleaved

Amplified Polymorphic

Sequences (CAPS). This

is based on PCR and

polymorphism of

recognition sites for

restriction enzymes.

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Sequences (CAPS)

Markers in ...

Cleaved amplified

polymorphic sequence

(CAPS) markers, which

can be analyzed by

PCR followed by

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restriction enzyme

treatment and agarose

electrophoresis, are

commonly used as a

method of choice for

SNP genotyping in map-

based cloning projects

when marker

identification and

saturation is required

to cover a defined

chromosome region.

**APPLICATION OF
CAPS M G STUDIES IN
WILD EMMER WHEAT**

Derived cleaved

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Polymorphic
Sequence (dCAPS)
analysis, widely used in
the plant molecular
genetics community,
uses mismatches in
one of the two PCR
primers flanking the
SNP to create or
remove a restriction
endonuclease
recognition site in one
of the two haplotypes
being assayed [5.

**Web-based primer
design for single**

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Polymorphic

nucleotide

polymorphism ...

CAPS (buffer), N-cyclohexyl-3-aminopropanesulfonic acid, a buffering agent in biochemistry;

Calcyphosin, a human protein encoded by the CAPS gene;

Catastrophic antiphospholipid syndrome; Cleaved amplified polymorphic sequence, genetic markers used to detect a polymorphic sequence

Catastrophic

antiphospholipid

syndrome; Cleaved

amplified polymorphic

sequence, genetic

markers used to detect

a polymorphic

sequence

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Caps - Wikipedia

Cleaved Amplified Polymorphic sequence assay. Genotyping can be done using this assay. It's basically based on RFLP pattern.

CAPS Cleaved Amplified Polymorphic sequence assay

Cleaved amplified polymorphic sequence (CAPS) markers were then developed on the

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basis of a Dpn II restriction site that is present in all non- Yr5 varieties and absent in the Yr5 NIL. The CAPS markers for the Yr5 NIL and non- Yr5 varieties can be separated by agarose gel electrophoresis.

Development of Sequence Tagged Site and Cleaved Amplified ...

Abstract: One cleaved amplified polymorphic

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Sequence
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sequence (CAPS) and
nine sequence tagged
site (STS) markers
were de- veloped for
identifying tall larkspur
(Delphinium spp.)
plants in three species
based on the DNA
sequence of known

**Development of STS
and CAPS markers
for identification of**

...

CAPS - Cleaved
Amplified Polymorphic
Sequence. Looking for

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Polymorphic
abbreviations of CAPS?

It is Cleaved Amplified
Polymorphic Sequence.

Cleaved Amplified
Polymorphic Sequence
listed as CAPS. Cleaved

Amplified Polymorphic
Sequence - How is

Cleaved Amplified
Polymorphic Sequence
abbreviated?

**Cleaved Amplified
Polymorphic
Sequence - How is
Cleaved ...**

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Polymorphic
Sequences (CAPS)
markers are applicable
in a wide range of
tasks in plant biology.
They were developed
recently for plant
genetics and breeding
and have become
especially useful. This
mini-review contains
an analysis of the
information on the
application of CAPS
markers from the past
3-5 years.

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