



प्रमाणपत्र सं. / Certificate No.:
SW-2025021751



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Title of the work:

**PnGeneSSRdb: Gene-Based SSR
Marker Database for Black Pepper
(*Piper nigrum*)**

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Sheeja T E
अज्ञानमोक्षं

PnGeneSSRdb: A Gene-Based SSR Marker Database for Black Pepper (*Piper nigrum*)

Link: <http://14.139.189.24/SSRMarker/>

Index.php

```
<?php
```

```
    require_once("header.php");
```

```
?>
```

```
<div class="container-fluid dcontent">
```

```
    <div class=row>
```

```
        <div class='col-md-12'>
```

```
            </div>
```

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```
        <div class=row>
```

```
            <!--<div class='dslide fade' id=displayslide>-->
```

```
            <!--<div class='dslide col-md-12' id=displayslide>-->
```

```
            <div id='displayslide'>
```

```
                <img src='images/slide0.jpg' class='img-responsive'
id=imgslide style=""><br>
```

```
            </div>
```

```
        </div>
```

```
    <div class='row'>
```

```
        <div class=col-md-4>
```

```
            </div>
```

```
        <div class='col-md-4 dotscontainer'>
```

```
            <span class=ddots onclick="showslide(0)"
id=ddots0></span>
```

```
        </div>
```

```
    <div class=col-md-4>
```



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</div>

</div>

<div class='row'>

<div class='col-md-12 about'>

<h2>PnGeneSSRdb</h2>

<!--Test slide2

Test slide1

Test slide0

 For

testing-->

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<p>

A comprehensive database of gene-based SSR markers in black pepper. [Title: "PnGeneSSRdb: A Gene-Based SSR Marker Database for Black Pepper (Piper nigrum)"]. The database contains information of 5868 putative gene-sequence based SSR markers derived from the nucleotide sequences of protein-coding genes within the P. nigrum genome. These markers are expected to significantly enhance black pepper breeding programs, particularly by facilitating improved germplasm utilization of wild Piper species for genetic improvement, enabling more precise comparative genetic mapping, and streamlining marker-assisted introgression of desirable traits into elite cultivated black pepper genetic backgrounds.

</p>

</div>

</div>

</div>

<div class='container-fluid'>

</div>

<?php

require_once("footer.php");



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आशा म्हा. ५६८७

micro.php

<!DOCTYPE html>

<html lang="en">

<?php

require_once("header.php");

require_once("dbms_connect.php");

\$mysqli = connect_db();

?>

<body>

<?php

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\$connect = mysqli_connect("localhost","root","", "dd32");

\$sql = "SELECT * FROM details WHERE details.Markerclass = 'Class I'";

\$result = mysqli_query(\$connect, \$sql);

?>

<div class="container">

</div>

<div>

<div>

<div class="table-responsive">

<table class="table table-striped">

<tr>

<th>CDS ID</th>

<th>SSR motif</th>

<th>Motif type</th>



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<th>No. of repeats</th>

<th> </th>

<th>Motif length (bp)</th>

<th>Forward primer sequence (5'-3')</th>

<th>Tm (0C) </th>

<th>GC (%)</th>

<th>Reverse primer sequence (5'-3')</th>

<th>Tm (0C) </th>

<th>GC (%)</th>

<th>Expected amplicon size (bp)</th>

<th>Marker class</th>

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<?php

//if(mysqli_num_rows(\$result) > 0)

if(\$result && mysqli_num_rows(\$result) > 0)

{

while(\$row = mysqli_fetch_array(\$result))

{

?>

<tr> <td><?php echo \$row["cdsid"]; ?></td>

<td><?php echo \$row["SSR motif"]; ?></td>

<td><?php echo

\$row["Motiftype"];?></td>

<td><?php echo

\$row["Numrepeats"];?></td>

<td> </td>



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```

        (bp)];?></td>
        <td><?php echo $row["Motif length
        (bp)];?></td>
        <td><?php echo $row["Forward primer sequence"];?></td>
        <td><?php echo $row["Tm (0C)"];?></td>
        <td><?php echo $row["GC (%)"];?></td>
        <td><?php echo $row["Reverse primer sequence"];?></td>
        <td><?php echo $row["Tm (0C)1"];?></td>
        <td><?php echo $row["GC (%)1"];?></td>
        <td><?php echo $row["Expected amplicon size
        (bp)];?></td>
        <td><?php echo $row["Markerclass"];?></td>
    </tr>

```

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```

    <?php
    }
    }
?>
</table>
</div>
</div>
</div>
</div>
<br />
</body>
</html>
<?php
require_once("footer.php");
?>

```



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Search2.php

```
<?php
    require_once("header.php");
    require_once("dbms_connect.php");
    $mysqli = connect_db();

?>

<div class='container-fluid dcontent'>
    <div class='row'>
        <div class='col-md-12'>
```

```
<?php
```

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```
require "config.php"; // Your Database details
```

```
<!doctype html public "-//w3c//dtd html 3.2//en">
<html lang="en">
<body>
    <br>
    <br>
    <div class="container">
        <form class="form-inline" method="post" action="search.php">
            <input type="text" name="cdsid" class="form-control" placeholder="Search
CDS ID..">
            <button type="submit" name="save" class="btn btn-
primary">Search</button>
```

```
</form></div>
```

```
<div>
```

```
<div>
```



```
class="table-responsive">
```

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```
</div>
</div>
</div>
<br />
</body>
</html> <br>
<br><br><br><br><br><br>
<?php
```

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```
require_once("footer.php");
```

Search.php

```
<!DOCTYPE html>
<html lang="en">
<?php
```

```
require_once("header.php");
require_once("dbms_connect.php");
$mysqli = connect_db();
```

```
?>
```

```
<body>
```

```
<?php
```

```
$connect = mysqli_connect("localhost","root","", "dd32");
```

```
$cds_id=$_POST['cdsid'];
```

```
$sql = "SELECT * FROM details WHERE details.cdsid='$cds_id'";
```



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```
$result = mysqli_query($connect, $sql);
```

```
?>
```

```
<br>
```

```
<br>
```

```
<div class="container">
```

```
<form class="form-inline" method="post" action="search.php">
```

```
<input type="text" name="cdsid" class="form-control" placeholder="Search  
CDS ID..">
```

```
<button type="submit" name="save" class="btn btn-  
primary">Search</button>
```

```
</form></div>
```

```
<div>
```

```
<div class="table-responsive">
```

```
<table class="table table-striped">
```

```
<tr>
```

```
<th>CDS ID</th>
```

```
<th>SSR motif</th>
```

```
<th>Motif type</th>
```

```
<th>No. of repeats</th>
```

```
<th> </th>
```

```
<th>Motif length (bp)</th>
```

```
<th>Forward primer sequence (5'-3')</th>
```

```
<th>Tm (0C) </th>
```

```
<th>GC (%)</th>
```

```
<th>Reverse primer sequence (5'-3')</th>
```

```
<th>Tm (0C) </th>
```

```
<th>GC (%)</th>
```



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<th>Expected amplicon size (bp)</th>

<th>Marker class</th>

</tr>

<?php

//if(mysqli_num_rows(\$result) > 0)

if(\$result && mysqli_num_rows(\$result) > 0)

{

while(\$row = mysqli_fetch_array(\$result))

{

?>

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<td><?php echo \$row["cdsid"]; ?></td>

<td><?php echo \$row["SSR motif"];

?></td>

<td><?php echo \$row["Motiftype"];?></td>

<td><?php echo \$row["Numrepeats"];?></td>

<td> </td>

<td><?php echo \$row["Motif length (bp)"];?></td>

<td><?php echo \$row["Forward primer sequence"];?></td>

<td><?php echo \$row["Tm (0C)"];?></td>

<td><?php echo \$row["GC (%)"];?></td>

<td><?php echo \$row["Reverse primer sequence"];?></td>

<td><?php echo \$row["Tm (0C)1"];?></td>

<td><?php echo \$row["GC (%)1"];?></td>

<td><?php echo \$row["Expected amplicon size

(bp)"];?></td>



<td><?php echo \$row["Markerclass"];?></td>

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```

        </tr>

<?php
        }

    }

?>

</table></div></div></div>

<br /></body>

</html>

```

```

<?php
require once("footer.php");

```

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details.sql

```

CREATE TABLE `details` (
  `Sl. No.` int(4) DEFAULT NULL,
  `cdsid` varchar(9) DEFAULT NULL,
  `SSR motif` varchar(6) DEFAULT NULL,
  `Motiftype` varchar(15) DEFAULT NULL,
  `Numrepeats` int(2) DEFAULT NULL,
  `Motif length (bp)` int(3) DEFAULT NULL,
  `Forward primer sequence` varchar(27) DEFAULT NULL,
  `Tm (0C)` decimal(4,2) DEFAULT NULL,
  `GC (%)` decimal(4,2) DEFAULT NULL,
  `Reverse primer sequence` varchar(27) DEFAULT NULL,
  `Tm (0C)1` decimal(4,2) DEFAULT NULL,
  `GC (%)1` decimal(4,2) DEFAULT NULL,
  `Expected amplicon size (bp)` int(3) DEFAULT NULL,
  `ass` varchar(9) DEFAULT NULL

```



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) ENGINE=MyISAM DEFAULT CHARSET=utf8;

--

-- Dumping data for table `details`

--

INSERT INTO `details` (`Sl. No.`, `cdsid`, `SSR motif`, `Motiftype`,
`Numrepeats`, `Motif length (bp)`, `Forward primer sequence`, `Tm (0C)`, `GC
(%)`, `Reverse primer sequence`, `Tm (0C)1`, `GC (%)1`, `Expected amplicon
size (bp)`, `Markerclass`) VALUES

(1, 'Pn1.5', 'CTC', 'Trinucleotide', 6, 18, 'CGATAACCCTAGCACCGACC',
'59.97', '60.00', 'AAGGACAAGGGGTGAAGGC', '60.18', '55.00', 186, 'Class
III'),

(2, 'Pn1.5', 'CGG', 'Trinucleotide', 5, 15, 'GCATGCCAAAAGAGAGAGCG',
'59.20', '55.00', 'GTAGGCTTGGGTGGTTGAGC', '60.96', '60.00', 223, 'Class
III'),

(3, 'Pn1.15', 'TC', 'Dinucleotide', 6, 12, 'CGGAGGGATAAAGGAAGGGG',
'59.23', '60.00', 'CAGTACCTGCTTGCCCTACC', '60.11', '60.00', 188, 'Class
III'),

(4, 'Pn1.22', 'T', 'Mononucleotide', 10, 10,
'TGAAGTGAAGTCTAGGGGATTGG', '59.48', '47.83',
'GACCAAACCCAGGGTAGTCC', '59.67', '60.00', 188, 'Class III'),

(5, 'Pn1.24', 'GGC', 'Trinucleotide', 5, 15, 'AACGGTTCCAATCCCATCCG',
'60.39', '55.00', 'GCACCAATATGCAAGCTCCC', '59.61', '55.00', 166, 'Class
III'),

(6, 'Pn1.24', 'GCA', 'Trinucleotide', 6, 18, 'TTCCCCAACAATTCCCTCGG',
'59.96', '55.00', 'AATAGTTCTGCTGCGGTTGC', '59.20', '50.00', 186, 'Class
III'),

(7, 'Pn1.32', 'A', 'Mononucleotide', 14, 14, 'CTCTCTCATGCCTGGCTTCC',
'60.18', '60.00', 'CCTTCACAAACCGCAGAACG', '60.04', '55.00', 206, 'Class
III'),

(8, 'Pn1.32', 'CGC', 'Trinucleotide', 6, 18, 'ATGTGTGCTCCTTCCTCACC',
'59.67', '55.00', 'GGGGTGGTTGTTGTTGTTGC', '60.46', '55.00', 244, 'Class
III'),



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(9, 'Pn1.34', 'AAC', 'Trinucleotide', 5, 15, 'TGGCTGCTGCTTCTTCATCC', '60.68', '55.00', 'ACTTGCATGGAGTTCCTGGG', '59.96', '55.00', 177, 'Class III'),

(10, 'Pn1.34', 'CCG', 'Trinucleotide', 5, 15, 'ACGTCGACCACAATACCACC', '60.04', '55.00', 'GCCGTCGGAGTCTATCATGG', '60.04', '60.00', 236, 'Class III'),

(11, 'Pn1.50', 'C', 'Mononucleotide', 10, 10, 'TCCCCTCCCTGCCATTGG', '61.02', '66.67', 'CAAGGTAGTGCGCCAAAACC', '60.04', '55.00', 212, 'Class III'),

(12, 'Pn1.74', 'GCG', 'Trinucleotide', 5, 15, 'CCGCCGAGCAAGAAGACG', '61.18', '66.67', 'TGCGTCTTCTTCTTGGTGGG', '60.25', '55.00', 106, 'Class III'),

(13, 'Pn1.103', 'TG', 'Dinucleotide', 5, 10, 'GCTCTTCCATCCATTCACGC', '59.34', '55.00', 'TGTCGCTCTGATATTCGGC', '59.97', '55.00', 218, 'Class III'),

(14, 'Pn1.101', 'AG', 'Dinucleotide', 5, 10, 'GAGAGGGTTCGCCTGATCG', '59.93', '63.16', 'CTTGTGCCTCTTGTTCATGGC', '59.48', '55.00', 162, 'Class III'),

(15, 'Pn1.107', 'CCG', 'Trinucleotide', 6, 18, 'CTTCAACCACCCGCAATTCG', '60.11', '55.00', 'GATCGGAGGTTCGTACGCC', '60.30', '63.16', 235, 'Class III'),

(16, 'Pn1.121', 'TCA', 'Trinucleotide', 7, 21, 'TTTGTGCCTACCCATCTCGC', '60.39', '55.00', 'GACCACAGAGAGAAGCCACC', '60.04', '60.00', 167, 'Class II'),

(17, 'Pn1.137', 'C', 'Mononucleotide', 10, 10, 'TCGTGGCCGCATATAGTTGG', '60.25', '55.00', 'CAAAGGACTCGGAGGAGACG', '59.83', '60.00', 125, 'Class III'),

(18, 'Pn1.137', 'CGC', 'Trinucleotide', 7, 21, 'TCGTGGCCGCATATAGTTGG', '60.25', '55.00', 'CAAAGGACTCGGAGGAGACG', '59.83', '60.00', 125, 'Class II'),

(19, 'Pn1.160', 'GGC', 'Trinucleotide', 6, 18, 'GGCAGGGGTCGAGGGTGG', '64.48', '77.78', 'GCAGTAGTAGGGTTGGGCGG', '62.59', '65.00', 187, 'Class III'),



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(20, 'Pn1.160', 'GGC', 'Trinucleotide', 5, 15, 'GGCAGGGGTCGAGGGTGG', '64.48', '77.78', 'GCAGTAGTAGGGTTGGGCGG', '62.59', '65.00', 187, 'Class III'),

(21, 'Pn1.164', 'GCG', 'Trinucleotide', 5, 15, 'CCGCCGAGCAAGAAGACG', '61.18', '66.67', 'TGCGTCTTCTTCTTGGTGGG', '60.25', '55.00', 106, 'Class III'),

(22, 'Pn1.170', 'CCT', 'Trinucleotide', 5, 15, 'ATGAGGAAGTGGACGCTCC', '59.10', '57.89', 'AAGCTTCTCCTCCACCTTGG', '59.30', '55.00', 144, 'Class III'),

(23, 'Pn1.173', 'TG', 'Dinucleotide', 5, 10, 'TTGCCTGTCTCCAGTACAGC', '59.68', '55.00', 'TGTCCGCTCTGATATTCGGC', '59.97', '55.00', 236, 'Class III'),

(24, 'Pn1.190', 'AG', 'Dinucleotide', 5, 10, 'GTTCGCCTGATCGATGATTCG', '59.38', '52.38', 'CTTGTGCCTCTTGTGCATGGC', '59.48', '55.00', 156, 'Class III'),

(25, 'Pn1.199', 'CCG', 'Trinucleotide', 6, 18, 'CTTCAACCACCCGCAATTTCG', '60.11', '55.00', 'GATCGGAGGTTCGTACGCC', '60.30', '63.16', 235, 'Class III'),

(26, 'Pn1.215', 'TCA', 'Trinucleotide', 5, 15, 'TTTGTGCCTACCCATCTCGC', '60.39', '55.00', 'GACCACAGAGAGAAGCCACC', '60.04', '60.00', 161, 'Class III'),

(27, 'Pn1.230', 'C', 'Mononucleotide', 13, 13, 'GAAGCTCTGAACATTGCCGC', '60.18', '55.00', 'TCATACTAGCCAACGACTCGC', '59.93', '52.38', 181, 'Class III'),

(28, 'Pn1.233', 'CGC', 'Trinucleotide', 7, 21, 'TCGTGGCCGCATATAGTTGG', '60.25', '55.00', 'AGGAAGTGCACACTACACCG', '59.97', '55.00', 147, 'Class II'),

(29, 'Pn1.257', 'GGC', 'Trinucleotide', 5, 15, 'GAAGAAATCGGAGGAGGGGC', '60.18', '60.00', 'TCAGATCGGACGGAAATCGG', '59.62', '55.00', 140, 'Class III'),

(30, 'Pn1.265', 'ACT', 'Trinucleotide', 7, 21, 'CATGGCCAGGAACATGAAGG', '58.89', '55.00', 'AAGCTCAAGGGTGGTCAAGG', '59.89', '55.00', 213, 'Class II'),



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(31, 'Pn1.270', 'ACT', 'Trinucleotide', 7, 21, 'CATGGCCAGGAACATGAAGG', '58.89', '55.00', 'AAGCTCAAGGGTGGTCAAGG', '59.89', '55.00', 213, 'Class II'),

(32, 'Pn1.283', 'GGC', 'Trinucleotide', 6, 18, 'CAGTGCATTCCGAGGCTAGG', '60.53', '60.00', 'GTAAGTCCGGTTGCTCTCCG', '60.46', '60.00', 195, 'Class III'),

(33, 'Pn1.300', 'GGC', 'Trinucleotide', 5, 15, 'TAACCAGTGCATTCCGAGGC', '60.39', '55.00', 'CGAATAGTAAGCCCGGTTGC', '59.06', '55.00', 205, 'Class III'),

(34, 'Pn1.324', 'GC', 'Dinucleotide', 6, 12, 'GATTGCCCATCACGCCCCG', '61.59', '66.67', 'GTATCGTGCGCTGGGTTCG', '60.95', '66.67', 160, 'Class III'),

(35, 'Pn1.328', 'GGA', 'Trinucleotide', 5, 15, 'TTCGAGCTGAGTTGGAAGCG', '60.00', '55.00', 'GCTCATACCATTGCCCATGC', '59.68', '55.00', 182, 'Class II'),

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(36, 'Pn1.335', 'GGA', 'Trinucleotide', 8, 24, 'AAGGCCTTGGAGGTGGAGG', '61.23', '63.16', 'GCTCATACCATTGCCCATGC', '59.68', '55.00', 126, 'Class II'),

(37, 'Pn1.349', 'CGG', 'Trinucleotide', 6, 18, 'CGTTTTTCTCGCCGCAATCC', '60.79', '55.00', 'TCATCGACAACAGAACCCGC', '60.67', '55.00', 148, 'Class III'),

(38, 'Pn1.358', 'CTC', 'Trinucleotide', 5, 15, 'TTCCCTCTCCAGTCTCCACC', '60.25', '60.00', 'AGATGAACCATGAGAGCGGG', '59.53', '55.00', 100, 'Class III'),

(39, 'Pn1.366', 'TTG', 'Trinucleotide', 5, 15, 'GCTGCTGCTGAAGTTGTTGC', '60.94', '55.00', 'GAATTTGCTGGGTCTGCTGC', '60.11', '55.00', 160, 'Class III'),

(40, 'Pn1.370', 'AGG', 'Trinucleotide', 5, 15, 'ATCGAGGAGGTGGTGGAGG', '60.38', '63.16', 'CTCTTCACCTCCTTCTCGGC', '59.83', '60.00', 110, 'Class III'),

(41, 'Pn1.382', 'GGA', 'Trinucleotide', 7, 21, 'CTACAAGGACTGGGACACGG', '59.75', '60.00', 'ACTTTCTTCCTCGTCCTCGC', '59.76', '55.00', 190, 'Class II'),

(42, 'Pn1.386', 'GGA', 'Trinucleotide', 8, 24, 'GGACTGGGACACGG', '59.75', '60.00', 'ATTACCATTGCTCG', '59.97', '55.00', 271, 'Class II'),



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(43, 'Pn1.388', 'GGA', 'Trinucleotide', 7, 21,
'CTACAAGGACTGGGACACGG', '59.75', '60.00',
'CGCACCATTACCATTGCTCG', '59.97', '55.00', 268, 'Class II'),
(44, 'Pn1.390', 'GGA', 'Trinucleotide', 6, 18, 'TTGATTTC AAAGGCCTCGGG',
'58.46', '50.00', 'CGCACCATTACCATTGCTCG', '59.97', '55.00', 147, 'Class
III'),
(45, 'Pn1.392', 'GAG', 'Trinucleotide', 5, 15, 'TCCCCCTGGTCAGTTCAAGC',
'59.89', '55.00', 'AATTCAAGTTGCACGGCTCG', '59.76', '50.00', 147, 'Class
III'),
(46, 'Pn1.395', 'AGG', 'Trinucleotide', 6, 18,
'CTACAAGGACTGGGACACGG', '59.75', '60.00',
'CGCACCATTACCATTGCTCG', '59.97', '55.00', 268, 'Class III'),

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(47, 'Pn1.396', 'GGA', 'Trinucleotide', 7, 21,
'CTACAAGGACTGGAACACGG', '59.38', '52.38',
'CGCACCATTACCATTGCTCG', '59.97', '55.00', 269, 'Class II'),
(48, 'Pn1.398', 'GGA', 'Trinucleotide', 5, 15, 'TCTACAAGGACTGGGACACG',
'58.75', '55.00', 'GCTCATACCATTGCCCATGC', '59.68', '55.00', 221, 'Class
III'),
(49, 'Pn1.420', 'CGC', 'Trinucleotide', 5, 15, 'ATCCACCTCCTTCCAAGTCG',
'59.09', '55.00', 'GAGGCTAGGTTGGGCTATCG', '59.68', '60.00', 145, 'Class
III'),
(50, 'Pn1.421', 'CGG', 'Trinucleotide', 5, 15, 'TCAAGGGGTCACCGTTTAGC',
'59.96', '55.00', 'CCTCCACCTCCACTTGAACC', '59.96', '60.00', 198, 'Class
III'),
(51, 'Pn1.429', 'GGA', 'Trinucleotide', 7, 21,
'GCGATGGATCACAGTATGAAGC', '59.52', '50.00',
'CGCACCATTACCATTGCTCG', '59.97', '55.00', 233, 'Class II'),
(52, 'Pn1.434', 'GGA', 'Trinucleotide', 7, 21,
'CTACAAGGACTGGGACACGG', '59.75', '60.00',
'CGCACCATTACCATTGCTCG', '59.97', '55.00', 268, 'Class II'),
(53, 'Pn1.521', 'CAC', 'Trinucleotide', 5, 15, 'ACCTCCTTCTTCAACCATGCG',
'60.04', '55.00', 'CGATTCAAGAGCCAGCAGGG', '61.09', '60.00', 150, 'Class
III'),



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(54, 'Pn1.539', 'ACT', 'Trinucleotide', 5, 15, 'GCCAGTAAATCCTGCCAACG', '59.55', '55.00', 'CCAAATACTCCGGCAGTTCC', '58.62', '55.00', 172, 'Class III'),

(55, 'Pn1.539', 'GGA', 'Trinucleotide', 5, 15, 'GGAAGTCCGGAGTATTTGG', '58.62', '55.00', 'AGCAAGGACATGAGCGATCG', '60.53', '55.00', 129, 'Class III'),

(56, 'Pn1.540', 'CCG', 'Trinucleotide', 5, 15, 'GTCTACGGCTCCGGCAAGC', '63.35', '68.42', 'CGTAGAAGGAGCCGAGGACG', '62.05', '65.00', 100, 'Class III'),

(57, 'Pn1.542', 'AG', 'Dinucleotide', 5, 10, 'CTGGGCTGCTGTAGGAAAGG', '60.39', '60.00', 'AGATAAGCAATCCCGCGAGC', '60.60', '55.00', 158, 'Class III'),

(58, 'Pn1.557', 'A', 'Mononucleotide', 10, 10, 'GATTCATTCAAACCCACCC', '59.18', '52.38', 'GATTCATCTCAGACCTCCGC', '60.75', '60.00', 115, 'Class III'),

(59, 'Pn1.572', 'AC', 'Dinucleotide', 5, 10, 'CAACGTGGTTCCTCTCCTCC', '60.04', '60.00', 'GGAGAGGTGAAGCGAGATGG', '59.90', '60.00', 168, 'Class III'),

(60, 'Pn1.599', 'AC', 'Dinucleotide', 5, 10, 'CAACGTGGTTCCTCTCCTCC', '60.04', '60.00', 'GGAGAGGTGAAGCGAGATGG', '59.90', '60.00', 167, 'Class III'),

(61, 'Pn1.602', 'AC', 'Dinucleotide', 6, 12, 'CAACGTGGTTCCTCTCCTCC', '60.04', '60.00', 'GGAGAGGTGAAGCGAGATGG', '59.90', '60.00', 168, 'Class III'),

(62, 'Pn1.609', 'AC', 'Dinucleotide', 6, 12, 'CAACGTGGTTCCTCTCCTCC', '60.04', '60.00', 'GGAGAGGTGAAGCGAGATGG', '59.90', '60.00', 169, 'Class III'),

(63, 'Pn1.620', 'AC', 'Dinucleotide', 5, 10, 'AACGTGGTTCCTCTCCTCCG', '59.68', '55.00', 'AATTGGGACGCAGGAAGAGG', '60.04', '55.00', 185, 'Class III'),

(64, 'Pn1.633', 'AC', 'Dinucleotide', 5, 10, 'CAACGTGGTTCCTCTCCTCC', '60.04', '60.00', 'GGAGAGGTGAAGCGAGATGG', '59.90', '60.00', 163, 'Class III'),



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(65, 'Pn1.693', 'TG', 'Dinucleotide', 5, 10, 'GCCACAGTATTTGGTCAGTGC', '59.80', '52.38', 'GTGTCTAACTTTTGCAGAGCAGG', '60.06', '47.83', 221, 'Class III'),

(66, 'Pn1.697', 'AGG', 'Trinucleotide', 6, 18, 'ATGGAAAGGTTGATGGGCGG', '60.68', '55.00', 'CCATTCCCTTCTCCTCCTCG', '59.24', '60.00', 100, 'Class III'),

(67, 'Pn1.754', 'GA', 'Dinucleotide', 5, 10, 'ATGGGGAGGGGGAGTGGG', '62.46', '72.22', 'CTTGGTCGATCCCATGTCGG', '60.53', '60.00', 234, 'Class III'),

(68, 'Pn1.762', 'GGC', 'Trinucleotide', 5, 15, 'GTCGAGCTCAACTACCCTCC', '59.54', '60.00', 'GCCGCTTCCTGTTCTTCTCC', '61.02', '60.00', 190, 'Class III'),

(69, 'Pn1.775', 'C', 'Mononucleotide', 25, 25, 'GACTGACCATCCTTGCCACC', '60.00', '60.00', 'ATGACAACGACGACCACTCG', '60.39', '55.00', 175, 'Class III'),

(70, 'Pn1.820', 'TG', 'Dinucleotide', 5, 10, 'GCCACAGTATTTGGTCAGTGC', '59.80', '52.38', 'GTGTCTAACTTTTGCAGAGCAGG', '60.06', '47.83', 221, 'Class III'),

(71, 'Pn1.821', 'CGG', 'Trinucleotide', 5, 15, 'TCTTTTCCCCCTTCACACCC', '59.52', '55.00', 'AATTCCAAAAAGGCGGTGCG', '60.04', '50.00', 113, 'Class III'),

(72, 'Pn1.845', 'C', 'Mononucleotide', 10, 10, 'CATCCCTCATTCTCCCCTGC', '59.89', '60.00', 'CTACGAGGGCAGCTTCGG', '59.89', '66.67', 154, 'Class III'),

(73, 'Pn1.852', 'CCG', 'Trinucleotide', 5, 15, 'CTCCTTCGCCTTCTACCACG', '60.18', '60.00', 'GGCTTCTTGGGGTCCTTCC', '60.00', '63.16', 174, 'Class III'),

(74, 'Pn1.887', 'GGC', 'Trinucleotide', 5, 15, 'GTCGAGCTCAACTACCCTCC', '59.54', '60.00', 'GCCGCTTCCTGTTCTTCTCC', '61.02', '60.00', 190, 'Class III'),

(75, 'Pn1.899', 'C', 'Mononucleotide', 17, 17, 'CGCCTCCATCCTCACTAAGC', '60.25', '60.00', 'CCTGTTTCTTTGCTGTCGCC', '60.04', '55.00', 107, 'Class III'),

(76, 'Pn1.905', 'CCG', 'Trinucleotide', 6, 18, 'TCCGTCATTCCATTCTCGCC', '60.00', 'AGCTAACACTGATCCCACGC', '60.11', '55.00', 265, 'Class



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(77, 'Pn1.915', 'CGC', 'Trinucleotide', 6, 18, 'CAAGGGCTTGCTTATCCGC', '59.27', '57.89', 'AAGTCGGAAGCCTTGTACAG', '60.60', '55.00', 102, 'Class III'),

(78, 'Pn1.918', 'GGC', 'Trinucleotide', 5, 15, 'ACTCAGACGACGGTATCCCC', '60.75', '60.00', 'CGTAGAACCGCTGGTTGAGC', '61.35', '60.00', 219, 'Class III'),

(79, 'Pn1.924', 'CCG', 'Trinucleotide', 5, 15, 'GCTAAAAAGTCCAGCGGTGC', '60.11', '55.00', 'AGACATCAAAGCCACGGAGG', '60.04', '55.00', 245, 'Class III'),

(80, 'Pn1.950', 'C', 'Mononucleotide', 17, 17, 'ATGTCCCACGACCCCAACC', '61.90', '63.16', 'GAGTGGGGCAGCGGTAGG', '62.16', '72.22', 199, 'Class III'),

(81, 'Pn1.1026', 'C', 'Mononucleotide', 11, 11, 'AGACATGTCCCACGACCC', '60.04', '55.00', 'TCGTCAGGTGCATCGG', '60.20', '61.11', 204, 'Class III'),

(82, 'Pn1.1037', 'GGC', 'Trinucleotide', 5, 15, 'CTTCGTCCAAGCGCAGGG', '61.12', '66.67', 'CCACCTCCGCCTCCATCC', '61.87', '72.22', 182, 'Class III'),

(83, 'Pn1.1054', 'GAG', 'Trinucleotide', 5, 15, 'CAGAAAGGAGATGAGGGGCG', '60.18', '60.00', 'CCCCTTCTCTATCCCCAATCG', '59.37', '57.14', 246, 'Class III'),

(84, 'Pn1.1063', 'CCG', 'Trinucleotide', 9, 27, 'CCACTCCCTCATCTCACCG', '59.82', '60.00', 'CAGGTTCGAGCTGGCTATGG', '60.53', '60.00', 202, 'Class II'),

(85, 'Pn1.1483', 'C', 'Mononucleotide', 17, 17, 'CAGCAACGACCTCTACTGGG', '60.11', '60.00', 'CTGCAGTGGTCGTCCTGG', '60.05', '66.67', 111, 'Class III'),

(86, 'Pn1.1465', 'CTC', 'Trinucleotide', 5, 15, 'CATCGCCTTCATCTCCCTCC', '59.97', '60.00', 'CGATGCCGAAGACAATGTGG', '59.63', '55.00', 179, 'Class III'),

(87, 'Pn1.1443', 'C', 'Mononucleotide', 13, 13, 'CTGTCACCACCACCCACC', '59.89', '66.67', 'CACCGACGTGGCAAAATAGG', '59.55', '55.00', 179, 'Class III'),

(88, 'Pn1.1439', 'C', 'Mononucleotide', 15, 15, 'ATGTCCCACGACCCCAACC', '61.16', 'TCATCGCAGGTGCATCGG', '60.20', '61.11', 214, 'Class III'),



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(89, 'Pn1.1435', 'G', 'Mononucleotide', 35, 35,
'GGAAACTGGGAGTGTGGAGG', '59.96', '60.00',
'AACACACATCCCCTTCTCCG', '59.68', '55.00', 191, 'Class I');

Style.css

```
header, section, footer, aside, nav, main, article, figure {  
    display: block;
```

```
}
```

```
h3{
```

```
    color:#1a68ca;
```

```
}
```

```
input[type=submit]{
```

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    Date 06/10/2025
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```
    max-width:100px;
```

```
}
```

```
#dfooter{
```

```
    background-color:#0c1439;
```

```
    padding:15px;
```

```
    color:#9f94a6;
```

```
    /*width:100%;*/
```

```
}
```

```
#dheader{
```

```
    background-color:#87b387;
```

```
    text-align:center;
```

```
    position:fixed;
```

```
    width:100%;
```

```
}
```

```
.navbar{
```

```
    height:75px !important;
```



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```
.navbar-inverse {
    background-color: #006400;
    border-color: #006400;
}

#dNavbar>ul>li>a{
    padding-top:25px;
    background-color:#006400;
}

#dNavbar >ul >li>ul>li a{
    background-color:#006400;
```

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```
color:white;

#dNavbar >ul >li>ul>li a:hover{
    background-color:#006400;
    color:#c6ccd8;
}

#dNavbar>ul>li>ul{
    background-color:#006400;
}
```

```
.navbar-inverse .navbar-nav>.active>a, .navbar-inverse .navbar-
nav>.active>a:focus, .navbar-inverse .navbar-nav>.active>a:hover{
    color:#c6ccd8;
}
```

```
.navbar-inverse .navbar-nav>li>a {
    color: white;
    font-weight:700;
```



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