<table>
<thead>
<tr>
<th>Type</th>
<th>Name</th>
<th>Sequence (5'→3')</th>
<th>Name</th>
<th>Sequence (5'→3')</th>
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<tbody>
<tr>
<td>Adapter</td>
<td>Adapter top (AlwNI)</td>
<td>CTCGTAGACTCGTACCTAG</td>
<td>Adapter bottom (AlwNI)</td>
<td>GGTACGAGTCTAC</td>
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<td>Adapter primer</td>
<td>AlwNI+1-0</td>
<td>CTCGTAGACTCGTACCTAG</td>
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<td>Excition confirmation primer sets</td>
<td>Dart1-51-F1</td>
<td>GGAATAAGTTCACTTTGGGTCCACACG</td>
<td>Dart1-51-R1</td>
<td>CTGATGTGATGCTTAGACTTGTTGCTAACCCTG</td>
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<td>Dart1-51-F2</td>
<td>CACACGATAAAAGTGGAGATCGATAGGCCAGGA</td>
<td>Dart1-51-R2</td>
<td>GCCCAACACACATGTCACAGTC</td>
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<td>VnD1-3-1-F</td>
<td>GAGCGAATGGTATGAGTGTTTTTTC</td>
<td>VnD1-3-1-R</td>
<td>GTGGAGACGAGGAGGAAGGAGC</td>
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<td>Primer sets for newly inserted nDart1-elements</td>
<td>Chr1_1701584-F</td>
<td>TGCAACGTCGGAGCCTGTACCTTG</td>
<td>Chr1_1701584-R</td>
<td>CGTGGACATAACCTTTGCTGATCTAGAACC</td>
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<td>Chr2_8164089-F</td>
<td>CGATCGGACGCCCACACAAATATTCC</td>
<td>Chr2_8164089-R</td>
<td>AGGGCTCTCTCGCTCGCAGT</td>
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<tr>
<td></td>
<td>Chr3_10037825-F</td>
<td>CACAGGATGACTCGTACATGTAATAGCC</td>
<td>Chr3_10037825-R</td>
<td>CCTCCATTTGGGAGTGTCTAC</td>
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<tr>
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<td>Chr3_10992070-F</td>
<td>GAGATCTTACGCTGGTACCCG</td>
<td>Chr3_10992070-R</td>
<td>CCCAAATCTTATCGGAAATCCCGT</td>
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<td>Chr3_11041524</td>
<td>CCCTCCGCACTATGGGATGTTCCC</td>
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<td>CCTTTCAGCCCCGCTAAGT</td>
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<td>Chr3_12077988-F</td>
<td>AGGACGAGATGCTGTGGGAGTCA</td>
<td>Chr3_12077988-R</td>
<td>CGCACTTCCAACCCGAAAGGTACG</td>
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<td>Chr4_27037846-F</td>
<td>CCACACCTACCTCCGAGAAATGCGTACG</td>
<td>Chr4_27037846-R</td>
<td>GCTGACATCTACCTCCATATGGAGGC</td>
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<td></td>
<td>Chr5_22453200-F</td>
<td>GTCCGACCTCATCCTGCTGCTGTTT</td>
<td>Chr5_22453200-R</td>
<td>CTTCACCACTTTTGTCAGAAACTCAG</td>
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<td>Chr6_32088397-F</td>
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<td>CCTCCCTGCGGATCTGATATCTTG</td>
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<td>Chr7_10207852-F</td>
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<td>GACGGGAGGATTTTTTTTTCAGCCAAAC</td>
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<td>Chr10_16131369-F</td>
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<td>CCTGATTTTTCTATCATATGGTAC</td>
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<td>Chr11_2045395-F</td>
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## Supplementary Table S2 nDart1 insertion positions within genes whose function were predicted

<table>
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<tr>
<th>No.</th>
<th>Chr.</th>
<th>Position (Direction)</th>
<th>nDart1 Pattern</th>
<th>Position in gene</th>
<th>Putative gene function</th>
<th>Gene direction</th>
<th>Name of cDNA clone or locus ID</th>
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<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>1701584 ( + )</td>
<td>M Coding</td>
<td>Similar to Alpha-xylosidase precursor (Fragment).</td>
<td>+</td>
<td>AK010209</td>
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<tr>
<td>2</td>
<td>1</td>
<td>6506121 ( - )</td>
<td>S 5'UTR</td>
<td>ATPase, coupled to transmembrane movement of substances, putative, expressed</td>
<td>-</td>
<td>LOC_Os01g1946.1</td>
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<tr>
<td>3</td>
<td>1</td>
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<td>S 3'UTR</td>
<td>Zinc finger, BED-type predicted domain containing protein.</td>
<td>+</td>
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<td>Similar to Pectin methyltransferase isoform alpha (EC 3.1.1.11) (Fragment).</td>
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<td>UDP-glucuronyl/UDP-glucosyltransferase family protein.</td>
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<td>cyclase/dehydrase, putative, expressed</td>
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<td>5121696 ( - )</td>
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<td>Octicosapeptide/Phox/Bem1p domain containing protein.</td>
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<td>Cyclin-like F-box domain containing protein.</td>
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<tr>
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<td>Similar to MRP-like ABC transporter.</td>
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<td>5888055 ( + )</td>
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<td>3</td>
<td>10992070 ( - )</td>
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<td>26346529 ( + )</td>
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<td>3-isopropylmalate dehydrogenase 2, chloroplast precursor, putative, expressed</td>
<td>+</td>
<td>LOC_Os03g5320.1</td>
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<td>33214512 ( + )</td>
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<td>Similar to Actin-depolymerizing factor 6 (ADF-6) (AtADF6).</td>
<td>-</td>
<td>AK073162</td>
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<tr>
<td>17</td>
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<td>27037846 ( - )</td>
<td>M Intron</td>
<td>Myb, DNA-binding domain containing protein.</td>
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<td>18</td>
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<td>2811886 ( + )</td>
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<td>Similar to Cullin-1.</td>
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<td>Similar to Aldose reductase ALDRXV4.</td>
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<tr>
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<td>Lipolytic enzyme, G-D-S-L family protein.</td>
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<td>Protein of unknown function DUF869, plant family protein.</td>
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<td>17731515 ( + )</td>
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<td>Peroxioxal coenzyme A diphosphatase NUDT7, putative, expressed</td>
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<td>12173043 ( - )</td>
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<td>C2/C5 disease resistance protein, putative</td>
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<td>27</td>
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<td>M Coding</td>
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<td>28</td>
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<td>Exoribonuclease domain containing protein.</td>
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<td>26352443 ( - )</td>
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<td>D111/G-patch domain containing protein.</td>
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<td>30</td>
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<td>S Intron</td>
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<td>transposon protein, putative, unclassified, expressed</td>
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*The symbols + and - indicate that the orientation of the inserted nDart1 or the gene is same and opposite to the IRGSP sequences, respectively.

1-0 indicates nDart1-0 inserted into the gene, based on the results of nDart1-0-TD.

S and M indicate that the corresponding TD band was detected in a single plant only and in multiple plants, respectively.

The name of cDNA clone begins with AK or AF whereas the locus ID by Rice Genome Annotation Project begins with LOC.
Supplementary Fig. S1