



Detection and quantification of splicing variants of *Hd3a* gene in oil palm

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Supplementary data 1
 CLUSTAL 2.1 multiple sequence alignment

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EgHd3a_X2      -----CTAAAAGACCATAGCTAGGCCTAAAGTCTGTGTGCCAAGGTTGCT
EgHd3a_X3      CAAATCTATCCATATCTAAAAGACCATAGCTAGGCCTAAAGTCTGTGTGCCAAGGTTGCT
EgHd3a_X1      -----TATCTAAAAGACCATAGCTAGGCCTAAAGTCTGTGTGCCAAGGTTGCT
LOC105040685   CAAATCTATCCATATCTAAAAGACCATAGCTAGGCCTAAAGTCTGTGTGCCAAGGTTGCT
                *****

EgHd3a_X2      CATTAACCTTCTAAGCAAAGCATCAAAGTCCCCACTTGTTCCTTCATTTTAATTACC
EgHd3a_X3      CATTAACCTTCTAAGCAAAGCATCAAAGTCCCCACTTGTTCCTTCATTTTAATTACC
EgHd3a_X1      CATTAACCTTCTAAGCAAAGCATCAAAGTCCCCACTTGTTCCTTCATTTTAATTACC
LOC105040685   CATTAACCTTCTAAGCAAAGCATCAAAGTCCCCACTTGTTCCTTCATTTTAATTACC
                *****

EgHd3a_X2      CCCTCTTCTCCTCATACTTCTCTGCCAGCAGCCTGTCTTTACCATAAGCTCCTAATTCTT
EgHd3a_X3      CCCTCTTCTCCTCATACTTCTCTGCCAGCAGCCTGTCTTTACCATAAGCTCCTAATTCTT
EgHd3a_X1      CCCTCTTCTCCTCATACTTCTCTGCCAGCAGCCTGTCTTTACCATAAGCTCCTAATTCTT
LOC105040685   CCCTCTTCTCCTCATACTTCTCTGCCAGCAGCCTGTCTTTACCATAAGCTCCTAATTCTT
                *****

EgHd3a_X2      TTTTTCCTCGCCAGATGCACTCTTGGGAGGTAGGACTGATGCCAAGAGAAAGGGATCCTT
EgHd3a_X3      TTTTTCCTCGCCAGATGCACTCTTGGGAGGTAGGACTGATGCCAAGAGAAAGGGATCCTT
EgHd3a_X1      TTTTTCCTCGCCAGATGCACTCTTGGGAGGTAGGACTGATGCCAAGAGAAAGGGATCCTT
LOC105040685   TTTTTCCTCGCCAGATGCACTCTTGGGAGGTAGGACTGATGCCAAGAGAAAGGGATCCTT
                *****

EgHd3a_X2      TGGTTGTGGCAGGGTGATAGGAGATGTGTTGGATCCATTATAAGAAGTGTACCCCTCA
EgHd3a_X3      TGGTTGTGGCAGGGTGATAGGAGATGTGTTGGATCCATTATAAGAAGTGTACCCCTCA
EgHd3a_X1      TGGTTGTGGCAGGGTGATAGGAGATGTGTTGGATCCATTATAAGAAGTGTACCCCTCA
LOC105040685   TGGTTGTGGCAGGGTGATAGGAGATGTGTTGGATCCATTATAAGAAGTGTACCCCTCA
                *****

EgHd3a_X2      GGGTGATCTACAATTCGAGGGAGGTGGCCAATGGATGTGAGCTTAAACCTCGGCTGTTCG
EgHd3a_X3      GGGTGATCTACAATTCGAGGGAGGTGGCCAATGGATGTGAGCTTAAACCTCGGCTGTTCG
EgHd3a_X1      GGGTGATCTACAATTCGAGGGAGGTGGCCAATGGATGTGAGCTTAAACCTCGGCTGTTCG
LOC105040685   GGGTGATCTACAATTCGAGGGAGGTGGCCAATGGATGTGAGCTTAAACCTCGGCTGTTCG
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EgHd3a_X2      TTAACCGACCTAGGTTGAGGTTGGAGGCACTGACCTCAGGACCTTCTACACCCCTT----
EgHd3a_X3      TTAACCGACCTAGGTTGAGGTTGGAGGCACTGACCTCAGGACCTTCTACACCCCTT----
EgHd3a_X1      TTAACCGACCTAGGTTGAGGTTGGAGGCACTGACCTCAGGACCTTCTACACCCCTTGGTG
LOC105040685   TTAACCGACCTAGGTTGAGGTTGGAGGCACTGACCTCAGGACCTTCTACACCCCTTGTA
                *****

EgHd3a_X2      -----
EgHd3a_X3      -----
EgHd3a_X1      -----
    
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LOC105040685 GCCCATCTCTCTATTCCTCCCCCTAGATGCATATCTTCTTGTAGGCTTACTATTTCGATCTC

EgHd3a_X2 -----
 EgHd3a_X3 -----
 EgHd3a_X1 -----
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EgHd3a_X2 -----
 EgHd3a_X3 -----
 EgHd3a_X1 -----TTCTTAACGATGTGTTGC
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EgHd3a_X2 --ATTATGATAGACCCGGATGCTCCAAGTCCAAGTGACCCACACCTCAGGGAGTATTTGC
 EgHd3a_X3 --ATTATGATAGACCCGGATGCTCCAAGTCCAAGTGACCCACACCTCAGGGAGTATTTGC
 EgHd3a_X1 AGATTATGATAGACCCGGATGCTCCAAGTCCAAGTGACCCACACCTCAGGGAGTATTTGC
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 EgHd3a_X3 ACTG-----
 EgHd3a_X1 ACTG-----
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EgHd3a_X2 -----
 EgHd3a_X3 -----
 EgHd3a_X1 -----
 LOC105040685 TTGCATTACTTTGAGGATTTGTATTTTACTATTGGGTCAGACTTCACTCGCATGCTAGGT

EgHd3a_X2 -----
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 EgHd3a_X1 -----
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EgHd3a_X2 -----
 EgHd3a_X3 -----
 EgHd3a_X1 -----
 LOC105040685 AACCAAAATAATCTAGTGCAAACCTCAACCCTAGATCTAGCCTTCCAAATCCGACTGAAAA

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 EgHd3a_X3 -----
 EgHd3a_X1 -----
 LOC105040685 TAGAAAACGTGGCCCAAAATCAAAAATATGTATATCTAGGACTATTCGACTGCAAAAT

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 EgHd3a_X3 -----
 EgHd3a_X1 -----
 LOC105040685 CTTCAGTTTATATGGTTTGTAGTTCTAACAGAACTTGAGTTCTTTGGATATATGAAAAGCT

EgHd3a_X2 -----
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 EgHd3a_X1 -----



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 EgHd3a_X3 -----
 EgHd3a_X1 -----
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EgHd3a_X2 -----
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 EgHd3a_X1 -----
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EgHd3a_X2 -----
 EgHd3a_X3 -----
 EgHd3a_X1 -----
 LOC105040685 GCTCTATCCTTAAGCTTCTCTTGTGAAGTTTTTGTATACGCACTAATGTGATCTACGCTG

EgHd3a_X2 -----GTTGGTCACGGATATCCCGCAACGACTGGAGCTGCCTACG-----
 EgHd3a_X3 -----GTTGGTCACGGATATCCCGCAACGACTGGAGCTGCCTACGCCAA-----
 EgHd3a_X1 -----GTTGGTCACGGATATCCCGCAACGACTGGAGCTGCCTACG-----
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EgHd3a_X2 -----
 EgHd3a_X3 -----
 EgHd3a_X1 -----
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 EgHd3a_X3 -----
 EgHd3a_X1 -----
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EgHd3a_X2 -----
 EgHd3a_X3 -----ATAAAAAAACGCGTGTGTCGTCGAGAAGAATGATTGGCAGGCCTG-----
 EgHd3a_X1 -----
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EgHd3a_X2 -----GTCAGGAGATTGTGTGCTATGAGAG-----
 EgHd3a_X3 ATCACTATGTCTCATAATTTTATACCTGGGTTTCAGGTCAGGAGATTGTGTGCTATGAGAG-----
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EgHd3a_X1 TTCACAGTTTCTAAAGAAAATAATGGCTCCGGCAGTGAAGCTACTAGAAAAGTGGAGAT
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EgHd3a_X1 AGTCGTATATATTTTTTTATAATTAGTGAACCTTTTCGGGTA---
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