http://www.vcru.wisc.edu/simonlab/sdata/MK000048.pdf

MK000048=NCED1

Marker: NCED1
Type: SNP
Description: 9-cis –epoxycarotenoid dioxygenase
Reference: ① Brian Just Ph.D. Thesis, Table 2.1 ② Theor Appl Genet (2007) 114:693-704
Primers: NCED1-F1.....5'-cttcttgatcataagcatggcatggg-3'
NCED1-R1.....5'-acggaagcttaatcgaagcctctag-3'
PCR Reaction:
PCR Program: Annealing temperature 56°C
Screening Method: SNP detected by agarose gel after *Taq*I digestion
Product Sizes: 1.0kb
Example:
Genbank reference: DQ192200
Sequence Information: >NCED1 (267a) Consensus (cDNA sequence) Both primers are in cDNA sequence, 1024 b.p. in cDNA

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GATTCATCTCACACTCCTCTCCTCACTTGCCTTCTCACATGGCTTCTTCTCTTAATACTACCAATATTTTCACCTCACCAAGTTT
TCGAAACAACACAAAAACAAATGTGCACTCTTCTATTCAAGTCCCTTCTATTCCATTCTCCCCAAACAAATCGAGCACAACTTAT
CAAACACCTTGTAATAATAATAATAATAATAGTCCTCCAATTCCGAAATGGAATATATTGCAAAAGGCCGCGGCGATGGCATTAG
ATGCGGTCGAAAGTGCGATTATTTCGCGGGAATTGCAGCTCCCGCTGCCGAAAACAACAGACCCCGAAATTCAAATTGCGGGCAA
CTTTGCTCCCGTGCCTGAACAGCCTGTGAAGCAAAATCTTTCGGTTTCGGGAAAAATCCCCGAATGTATAAACGGAGTGTACGTT
CGCAACGGAGCCAATCCGCACTTCGAGCCGAAAGCAGGGCACCATTTATTCGACGGGGATGGGATGGTTCACGCGGTCCAGTTCA
AGAACGGCTCAGCCAGCTACGCTTGCCGCTTCACCGAGACCGAAAGGCTTGTGCAGGAACGTAGCTTAGGAAGGCCTGCTTTCCC
GAAAGCCATTGGTGAGCTCCATGGCCATTCCGGGATAGCGCGGCTCGCGCTTTTCTACGCTCGCGGCATGTTCGGACTTCTTGAT
CATAAGCATGGCATGGGGGTTGCGAATGCGGGGTTGGTTTATTTTAATGATCGGCTTCTAGCTATGTCTGAAGATGATTTACCGT
ATCATGTTCGGGTTGGTCCATCAGGTGACCTTGAAACAATTGGAAGGTATAATTTTGATGGTCAGCTTGATTCGACTATGATTGC
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TTCTCTAGTGACGGATCCAAGTCCGAAGACGTGGATATCCAGCTCTCTGATCCCACCATGATGCATGATTTCGCGATCACGGAGA
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TAAAGTATCGCGTTTCGGGGTTTTGGATAAGTATGCTAGCGATGCTTCGGGAATCAGATGGGTTGATGTTCCGGATTGTTTTTGT
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TCTGTCTTGCTATGATCAAGTGAACTTAGAAGCAGGGATGGTGAACAAAAATATGCTAGGAAGAAAGACGCAATTCGCGTACTTA
GCCATAGCTGAGCCATGGCCTAAAGTTTCGGGTTTTGCCAAAGTGGACTTGTCTAGCGGCCAAGTGAACAAGTTCTTTTACGGGG
ATGAAAAATTTGGAGGCGAGCCTCTATTTTTCCCGAACCCTGATTCGAAAAATGAAGACGAAGGGTACATTTTGGCGTTTGTTCA
CGACGAGAAGAACTGGGAATCGGAACTTCAAATCGTGAATGCCGCGACTCTGGAGCTAGAGGCTTCGATTAAGCTTCCGTCTAGA
GTGCCGTATGGTTTTCATGGAACATTCATTAGTGCGAAAGATTTGGAAACTCAGGCCTAGTTAGTGATGGAATTAGTAAGGCATT
TTTTAGTTATCAGAGCAGCCAAGATTTACAATAGGGATAGTTGTGGACATATTATATCTTGATTTCTTTGTAGTTCTAGTTCGTG
GGGAGTTTTGAAGGATCAGCTTGTAGCTTTAGGGTAAAGTAGAATTTGAGCTCAGCTGGTTTCTGGTTAGTTGAAGGTTGTTCAA
AGATTAACTTTTGTGTGCCATGTTAGACTTTCGAGTTTCGAGTGAGATATATTAATTATGTTTGATATTCCTTT
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