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RAPD

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RAPD

DNA RAPD

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UPGMA

RAPD

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(*Bunium persicum* (Boiss) B.

Fedtsch)

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n= x=

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RAPD

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RAPD

RAPD

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RAPD

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RAPD

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RAPD

RAPD

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DNA

Angelica

DNA

ITS RAPD

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RAPD

RAPD

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RAPD

RAPD

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- 2. *Viola wittrockiana*
 - 3. *Daucus carota* L.
 - 4. *Apium graveolens* L.
 - 5. *Bupleurum falcatum* L.
 - 6. *Peucedanum japonicum*
 - 7. Internal Transcribed Spacer

DNA

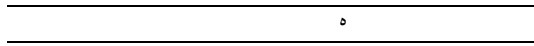
DNA

1. Random Amplified Polymorphic DNA

DNA ()

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DNA

RAPD



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TIB RAPD

MOLBIOL
DNA

(*Taq* / mM MgCl) PCR

DNA polymerase master mix-

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DNA

DNA

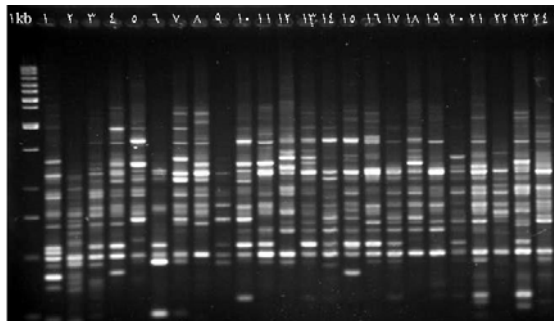
RAPD

DNA

DNA

RAPD / RAPD /
 () () °C °C °C
 (% /)
 RAPD EDTA % /

RAPD kb
 TIBMBB-17 /
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 TIBMBA-02 DNA UV



DNA
 TIBMBB-17
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 () NTSYS-pc, Version 2.1
 ()
 UPGMA

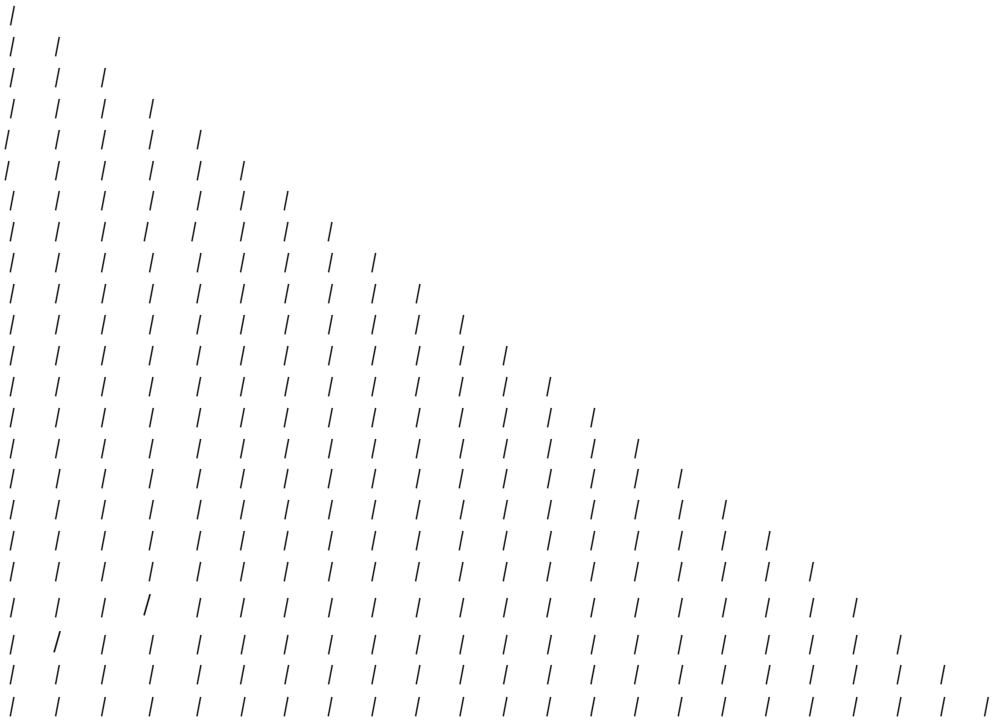
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1. Icycler, Bio-Rad
 2. WWW. fermentas.com
 3. Jaccard's similarity coefficient
 4. Unweighted Pair-Group Method using an Arithmetic average

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(b/a×)	(b)	(a)		
		5'TGCTCGGCTC3'	TIBMBA-02	
		5'GTGCGAGAAC3'	TIBMBA-03	
		5'GGACGACCGT3'	TIBMBA-06	
		5'GGAACTCCAC3'	TIBMBA-09	
		5'CTTCGGTGTG3'	TIBMBA-13	
		5'AAGTGCCCTG3'	TIBMBA-15	
		5'TCGGCACCGT3'	TIBMBA-16	
		5'ACACCGTGCC3'	TIBMBA-17	
		5'GGCTTGACCT3'	TIBMBA-03	
		5'GAGGCGATTG3'	TIBMBA-05	
		5'GAAGGCGAGA3'	TIBMBA-06	
		5'GGTCTTCCCT3'	TIBMBA-08	
		5'AACGTCGAGG3'	TIBMBA-10	
		5'CCTCCACCAG3'	TIBMBA-12	
		5'CTGGTGCTCA3'	TIBMBA-16	
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/	/	/	--	--



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RAPD

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AFLP

ISSR

(PCO)

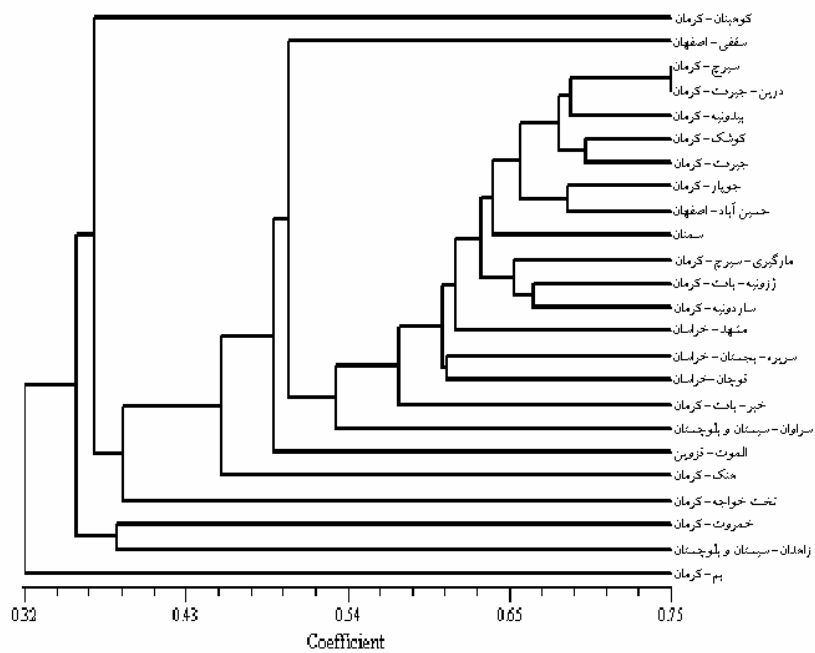
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RAPD

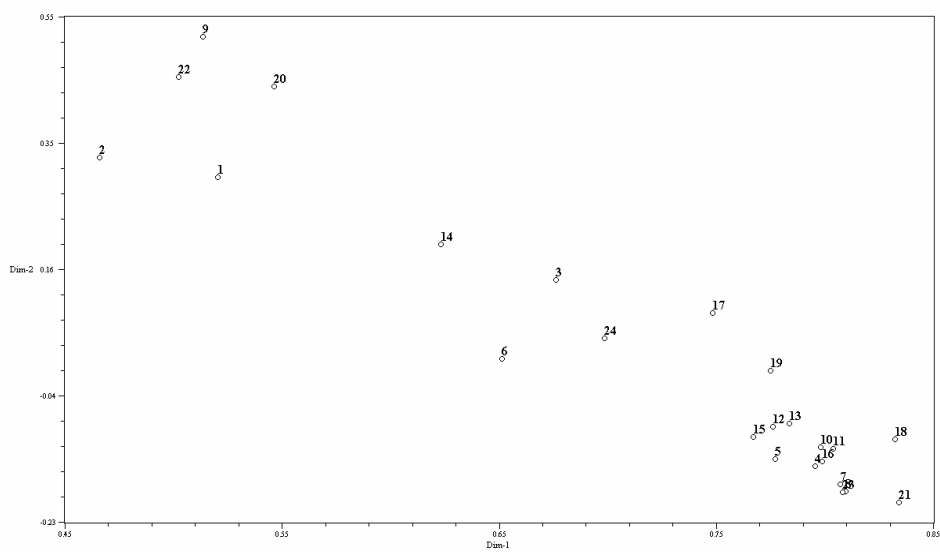
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PCO

RAPD



RAPD



RAPD

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RAPD

(% /) % / % /

r=!

UPGMA

RAPD

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