

SeqA	Name	Len (nt)	SeqB	Name	Len (nt)	Score
1	pDp1	1331	2	pDp2	651	6
1	pDp1	1331	3	pDp3	603	6
1	pDp1	1331	4	pDp4	339	17
2	pDp2	651	3	pDp3	603	4
2	pDp2	651	4	pDp4	339	5
3	pDp3	603	4	pDp4	339	7

pDp1 ACAAGCGCTTTAAGGGGAGCATGTGTTTGGTCAGAGGCCAGTGTGGCTGGGGAAGAATTA 60
pDp4 -----
pDp3 -----
pDp2 -----

pDp1 AGATATGAGTGGGAGGAGACATTAAATCAGAAAGGTAAGTTAGGATCAGATCATATAGAA 120
pDp4 -----
pDp3 -----
pDp2 -----

pDp1 TGTAACAGATCATGGGTTAGGATTTTGGATTTTATATTAAGTGTGATTGGAATTCATTAG 180
pDp4 -----
pDp3 -----
pDp2 -----

pDp1 AGAGTTTTTGTGGAGGAGTGACATTATCAGATTTATATCTGTAAAAGAAGATCTTCTGGC 240
pDp4 -----
pDp3 -----
pDp2 -----

pDp1 AAAAGAAAAATTACAGCAGATGGAAATTTGAATCTATACAGAAAAATACAGAGCACTGGA 300
pDp4 -----
pDp3 -----
pDp2 -----

pDp1 AATGGTAACTATGCGCTACATATAAAATACTTTATTTTCCTTGCATTTAAATGTCTCAAA 360
pDp4 -----
pDp3 -----
pDp2 -----ATACCTTAACTTCAGAACACCACT 24

pDp1 AAGACAATTGACTCTAAAAAAATAGAGAGTT--TATAACACATAGAGGCAAATCATATG 418
pDp4 -----
pDp3 -----CACTGCAGGGAATAAAGTTA-CATAAGAAACAAAGTTTAAATTTTCC 50
pDp2 GAGTGATTTGCTACAAAACGAACATACTCTTACCATATGATGCAGCAATCACAATCCTT 84

pDp1 TCAACAAAGGCACAAAGATAGGGAGAAGAAAAATAAAAGTATACTGCTATAAAATTATTA 478
pDp4 -----

pDp3	CCATTGAAAAC TGACAGCAGGCCTTCACCCCTCCCTTTGCTTTAGAGGGTTAACTTTGCA	110
pDp2	GGAAATCCAGCATGGTTGAAAATTTATGCCACACAGAAACCTACATATGGATGCTAATAG	144
pDp1	TA-TTACATGTGAAATGCTACAATATTAGTTGAAGGTAAATTGATAATTAAAGATATATA	537
pDp4	-----	
pDp3	AA-AGGTGTCAGTTATTTCTCTGCCTCT-TTATATGTGTAGAAATCATTAAAAAGCTCA	168
pDp2	CAGCTTTATTCATAATTGCCAAAACCTGGAAGCAACCAGGATGTTCTTTAGAAGGTGAGT	204
pDp1	ATATAAACTATAAAAACTACTAAAA---TAACAAAATGAAAAATATAGTTAATAA-GTC	593
pDp4	-----ATAGAGG-----AAAA---CAACAGAATGGAAAGACCAGG-----G-ATC	36
pDp3	ATAAGCCTCTTGCCAAT---TTGAA---TGCTCCTTT--AAGGACCTGGCAGGAAA-ATC	219
pDp2	GGATAAACTATGGTATATCCAGAAAACGTATTATCATTTAGTGCTAAAAAGAACTACAAG	264
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pDp1	AGCAAAGGAGAAACAATGGAACCATA-ACACAATTAATTCAA-AAAAAGACCGAGAGAAG	651
pDp4	TCTTCAAGAAAATCAGAGATACCAAAGAAACATTTTCATGCAA-AGATGAGCTCGATAAAG	95
pDp3	CTTGCAAAAGGGGAGAGCTAGGTAAGGAAAGAAAAACTTAAGCAGTTGAAACCAGAAACT	279
pDp2	CTATCAAAGGATGTGGAAGAATCTTAAATGCACGTTATTTAGTGAAAGAAGCC--AACC	321
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pDp1	GGAAAAACAACAGATGTGAAAAATAGAAAACAAATAGCAATATGGTAGATTTAAACCCA	711
pDp4	GACAGAAATGGTATGGACCTAACAGAAGCAGAAGATATTAAGAAGAGATGGCAAGA---A	152
pDp3	GCTAGACCTTCTGGACACTCAGAGAAAGAAATGACCATCAAAGCAGTGCACAAGAATCAA	339
pDp2	TGAAAGGTTGCATAT-TGAAGGATTCCAAGTAAATGACATTCTGAAAGAGGCCAAAACTA	380
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pDp1	CTCA----TATCAATGTGAATTTGGAATGTGAAGTCAAGTGGGCT-TAGAAAGCATCACT	766
pDp4	TACA----CAGAAGAACTGTACTGGAATGGGGTGCCA--TCGCCT-T-----CTCCAAT	199
pDp3	TAAAAGTTCAGGAGAAGATCATAAAAAGGTTGGGCAAGGCAGCATCTTAAGAGGATTACA	399
pDp2	TGGAGA--CAGTAAAAGATCACTGGTTGCCAGGGTCTAGAGGGGA-----GAGAGCCAT	432
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pDp1	ATAAACAAAGCTAGTGGAGGTGATGGAATTCCAGTGAGCTATTCCATATCGTGAAAGATG	826
pDp4	ATATAGTTACATATAACAAATAAT----TTATAGT----TATACTATAT-GCAGTAAATA	250
pDp3	GCATCCACAGAAGCAGGAGATGTTCTTCTCAGAACTTCCACAGGTTATGTTATTATGCA	459
pDp2	GAATCAGCAGAGCACAGAGGGTTTCTAGGGCAGTGAAACTATTCTGAATGACGTTACACA	492
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pDp1	ATGCTGTGAAAGTG---CTGCACTCAATATGCCAGAAAATTTGGAAAAC TCA-GCAGTGG	882
pDp4	ATATTGTAAAATAT---TTAAAT--AATAT-TAATAAATTTTATCTCACATT-ATAATAT	303
pDp3	ACAGTATAAAACA----TTATAAAGAACATTAAACATTGCACAGAATGAGCA-GTGGTAG	514
pDp2	CCATTATACATTTGTCATTATGTATAATGGTGGATACATGTCATGATACATTTGTTAAAA	552
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pDp1	CCACAGGA----CTGGAAAAGGTCAC TTTTCATT-CTAATCCCAAAGAAAGGCAATGCCA	937
pDp4	TTATA-----TTGAAAATGGGGCTTC-CTTC-CTGAACTAAA-----	339
pDp3	CAAAATCATCTCCTGGCAGAGAGGCCACAGTTCACTAGGAAAATGAAATGTGAAGACCT	574
pDp2	CTCAAAGAATGTGTAACACCAAGAGTGAATCCTC-----AATGTAACTATGGATTCCG	606
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pDp1	AAGAACGCTCAGACTACCACACAGTTACACTCATCTCACACGCTGGTAAAGTGATGCTCA	997
pDp4	-----	
pDp3	GATCCCAGTATTAATGCCTGAATGTCAGT-----	603
pDp2	GATGATACTGGTGTGTCCAGGTAGCTTCATGGATTGTAGCGAATG-----	651
pDp1	AAATTCTCCAAGCCAGGCTTCAACAATACGTGAACCGTGAAC TTCCTGATGTTCAAGCTG	1057
pDp4	-----	
pDp3	-----	
pDp2	-----	

pDp1 GTTTTAGAAAAGGCAGAGGAACCAGAGATCAAATTGCCAACATCCTCTGGATCATTGAAA 1117
pDp4 -----
pDp3 -----
pDp2 -----

pDp1 AAGCAAGAGAGTTCCAGAAAAGCATATATTTCTGCTTTACTGACTATGCCAAAGTCTTTG 1177
pDp4 -----
pDp3 -----
pDp2 -----

pDp1 ACTGTCTGGATTACAATAAACTGTGGAAAATTCTGAAAGAGATGGGAATACCAGCCCACC 1237
pDp4 -----
pDp3 -----
pDp2 -----

pDp1 TGATCTGCCTCTTGAGAAATTTGTATGCAGGTCAGGAAGCAACAGTTAGAACTGGACATG 1297
pDp4 -----
pDp3 -----
pDp2 -----

pDp1 GAACAACAGACTGCTTTCAAATAGGAAAAGGAGT 1331
pDp4 -----
pDp3 -----
pDp2 -----

Additional File 2