

Supporting Information S1. This benchmark dataset S contains 3,106 different human protein sequences. Among them, 2,580 belong to one location; 480 to two locations; 43 to three locations and 3 to 4 locations. Both the accession numbers and sequences are provided. None of the proteins included has $\geq 25\%$ pairwise sequence identity to any other in the same subset (subcellular location). It was adapted from the benchmark dataset in (Cheng X, Xiao X, Chou KC. Bioinformatics, 2017, doi: 10.1093/bioinformatics/btx711) by reorganizing the order of proteins according to the alphabetical order of their accession numbers.

(1) S_1 : 77 centrosome proteins

>O14757

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>O15078

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>O00154

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>O00453

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>O00471

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>O00562

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>000628

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>000764

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>014512

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>014618

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>014713

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>014727

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>014744

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>014772

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>014929

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>014960

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>014964

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>O15169

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>O15217

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>O15287

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>O15304

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>O15360

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>O15392

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>O43236

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>O43264

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>043324

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>043557

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>043572

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>O43592

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>O43602

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>O43609

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>O43663

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>043776

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>043933

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>060229

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>O60237

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>O60477

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>075312

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>O75436

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>075874

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>075884

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>075891

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>075897

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>075935

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>075936

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>075952

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>076054

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>076094

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>094761

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>094829

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>O94830

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>O95149

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>O95153

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>O95154

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>O95163

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>095273

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>095278

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>095347

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>095359

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>O95373

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>O95379

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>O95391

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>O95400

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>O95453

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>O95456

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>O95487

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>O95571

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>O95721

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>O95822

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>O95848

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>O95996

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>P05787

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>P06132

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>P06732

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>P06733

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>P06744

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>P07195

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>P07203

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>P07476

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>P07741

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>P07900

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>P07954

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>P08151

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>P08235

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>P08319

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>P08865

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>P09132

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>P09651

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>P09960

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>P10155

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>P10768

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>P10826

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>P11245

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>P11586

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>P12081

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>P12272

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>P12830

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>P13639

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>P13693

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>P13798

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>P14061

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>P14324

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>P14635

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>P16989

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>P17174

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>P18054

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>P20618

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>P20807

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>P21127

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>P21266

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>P21580

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>P21673

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>P21695

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>P21964

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>P22059

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>P22061

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>P22307

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>P34913

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>P41279

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>P42226

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>P42858

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>P47897

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>P48634

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>P49458

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>P49589

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>P49591

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>P49720

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>P49789

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>P49915

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>P50135

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>P50542

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>P50747

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>P50748

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>P51843

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>P51854

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>P51857

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>P51858

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>P52630

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>P52758

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>P53004

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>P53396

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>P78545

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>Q12830

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>Q12882

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>Q13287

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>Q13310

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>Q13316

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>Q13330

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>Q13439

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>Q13485

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>Q13515

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>Q13671

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>Q13765

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>Q13868

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>Q14134

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>Q14145

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>Q14152

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>Q14203

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>Q14738

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>Q14749

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>Q14790

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>Q14894

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>Q14974

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>Q14978

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>Q15003

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>Q15020

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>Q15021

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>Q15025

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>Q15036

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>Q15042

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>Q15046

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>Q15102

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>Q15154

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>Q15185

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>Q15276

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>043909

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>O60238

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>O60337

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>O60613

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>O60725

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>O95479

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>O95881

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>P04035

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>P08235

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>P08240

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>P08684

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>P08842

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>P10415

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>P14060

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>P14091

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>P14625

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>P16435

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>P18031

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>P23141

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>P23284

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>P29122

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>P29728

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>P30519

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>P30533

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>P31512

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>P35610

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>P36956

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>P37268

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>P37287

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>P38435

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>P49184

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>P57727

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>P60468

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>O00292

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>O00515

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>O00626

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>O14625

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>O14791

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>O14960

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>O15130

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>O15150

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>O15263

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>O15444

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>O43157

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>O43852

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>O43927

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>O75015

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>O75829

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>O75882

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>O95711

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>O95715

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>O95760

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>P00451

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>P00488

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>P01008

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>P01019

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>P01031

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>P01042

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>P01127

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>P01148

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>P01160

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>P01185

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>P01210

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>P01215

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>P01233

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>P01236

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>P01241

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>P01258

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>P01266

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>P01275

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>P01286

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>P01303

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>P01579

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>P01583

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>P01584

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>P01588

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>P01857

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>P02647

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>P02649

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>P02652

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>P02654

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>P02655

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>P02656

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>P02743

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>P02749

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>P02750

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>P02751

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>P02753

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>P02763

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>P02768

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>P02775

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>P02790

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>P02818

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>P04114

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>P07911

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>P11684

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>P11686

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>P12272

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>P12821

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>P12872

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>P13521

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>P13688

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>P13987

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>P15248

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>P15291

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>P15907

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>P16442

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>P16471

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>P17931

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>P18428

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>P19021

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>P19801

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>P19823

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>P20061

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>P20333

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>P20366

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>P20742

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>P20783

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>P20809

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>P21246

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>P21754

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>P21802

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>P21815

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>P22003

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>P22466

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>P24855

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>P25311

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>P27169

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>P27487

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>P27797

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>P28290

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>Q13231

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>Q13421

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>P26572

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>P29474

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>P36956

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>P51690

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>Q09327

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>Q09328

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>Q10469

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>Q11203

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>Q13421

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>Q13439

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>Q13618

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>Q13948

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>Q14435

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>Q14511

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>Q14703

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>Q14789

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>095153

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>O95167

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>O95182

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>O95202

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>O95298

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>O95299

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>O95822

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>O95831

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>O95847

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>O96008

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>P00367

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>P00395

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>P00403

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>P03891

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>P03897

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>P03901

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>P03905

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>P03923

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>P04179

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>P04181

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>P07919

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>P07954

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>P08574

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>P10109

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>P10415

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>P10515

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>P11498

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>P29728

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>P30038

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>P30048

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>P30049

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>P30536

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>P31040

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>P31327

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>P31930

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>P31937

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>P32189

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>P34897

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>P35914

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>P36542

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>P36551

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>P36776

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>P36969

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>P38117

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>P38646

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>P39210

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>P40926

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>P40939

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>P42704

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>P43304

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>P43897

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>P45880

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>P47985

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>P48047

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>P48201

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>P48735

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>P49406

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>P49748

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>P49821

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>P50416

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>P50747

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>P51398

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>P51553

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>P51649

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>P53778

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>P54819

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>000625

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>O14497

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>014656

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>014746

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>014777

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>014893

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>O14924

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>O14929

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>O14980

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>O15078

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>O15105

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>O15111

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>O15150

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>O15287

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>O15304

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>O15360

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>O15379

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>O15381

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>O15392

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>O15446

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>O15527

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>O43148

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>O43159

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>O43236

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>O43290

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>O43324

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>O43364

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>043395

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>043513

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>043592

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>043593

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>043663

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>043679

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>O43719

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>O43809

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>O43818

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>O43823

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>O43913

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>O43929

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>O60869

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>O95163

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>095243

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>095248

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>095278

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>095359

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>P15531

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>P15822

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>P15941

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>P16455

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>P18074

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>P19447

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>P20290

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>P20823

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>P21580

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>P22087

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>P23193

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>P23490

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>P24928

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>P25786

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>P27707

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>P28715

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>P29083

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>P29084

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>P29373

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>P29558

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>P29590

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>P29728

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>P30281

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>P30291

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>P30307

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>P30876

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>P32780

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>P35222

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>P35244

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>P35251

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>P35520

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>P35638

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>P35658

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>P35869

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>P37840

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>P41002

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>P41134

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>P41227

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>P42226

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>P48634

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>P50748

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>P51610

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>P51826

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>P51854

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>P52294

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>P55060

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>P55895

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>P56693

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>P57678

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>P57740

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>Q12830

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>Q13136

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>Q13137

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>Q13257

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>Q13285

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>Q13352

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>Q13415

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>Q13416

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>Q13426

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>Q13451

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>Q13485

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>Q13487

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>Q13569

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>Q13601

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>Q13609

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>Q13618

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>Q13765

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>Q13823

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>Q13888

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>Q13889

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>Q13895

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>Q13901

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>Q13939

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>Q13950

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>Q13952

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>Q14129

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>Q14137

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>Q14145

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>Q14151

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>Q14181

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>Q14188

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>Q14191

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>Q14207

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>Q14493

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>Q14674

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>Q15029

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>Q15050

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>Q15269

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>Q15291

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>Q15393

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>Q15398

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>Q15542

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>Q15554

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>Q15631

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>Q15650

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>Q9BSV6

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N I I S L L W K L S K Q Q D E T H K L E S W L R K N Y L I D F K H H F M S R F P Y V L K E I T K H K R K E P N K S I K H
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>O15354

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>O15403

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>O43157

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>O43194

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>O43451

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>O43493

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>O43508

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>O43561

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>O43653

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>O43687

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>O43895

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>O60331

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>O60609

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>075365

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>075899

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>075955

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>094856

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>O94898

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>P11532

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>P15291

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>P16473

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>P17655

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>P19235

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>P19256

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>P19438

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>P20273

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>P20309

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>P21554

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>P21589

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>P21796

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>P21860

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>P23276

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>P23469

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>P23515

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>P25101

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>P25103

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>P29474

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>P29965

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>P31358

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>P31749

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>P32248

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>P32249

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>P33241

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>P35367

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>P35368

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>P52797

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>P53680

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>Q13224

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>Q13421

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>Q14210

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