

Online Supporting Information S5. The independent testing dataset used for comparing the performance between GPCR-AKNN (Xiao, X. and Qiu, W. R. Interdiscip. Sci. Comput. Life Sci., 2010, 2:180-184) and GPCR-2L of this paper. The dataset contains 2,192 GPCR proteins classified into 5 families: (1) Rhodopsin like, (2) Secretin like, (3) Metabotropic glutamate / pheromone, (4) Fungal pheromone, and (5) Frizzled/Smoothed family. To avoid bias, none of the proteins included here occurs in the training dataset of GPCR-AKNN, or in the training dataset of GPCR-2L. See the text of the paper for further explanation.

(1) 1619 Rhodopsin like GPCR

>O42385

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>Q9N297

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>P08908

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>Q64264

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>Q9N298

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>Q9N296

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>P19327

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>Q6XXY0

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RRR

>P79250

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>O08892

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>P46636

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>P35404

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>Q588Y6

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>O42384

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>P28334

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>P49144

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>P28564

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>P56496

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>Q6XXX8

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>P11614

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>Q60484

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>P79748

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>P28221

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>Q61224

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>P28565

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>P28566

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>O08890

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>P30939

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>Q02284

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>P30940

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>Q75Z89

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>O46635

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>P28223

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>P50128

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>P35363

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>P50129

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>Q5R4Q6

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>P14842

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>Q02152

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>P30994

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>Q60F97

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>P28335

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>P34968

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>Q5IS66

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>P08909

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>O70528

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>Q9UE23

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>P97288

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>P47898

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>P30966

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>P35364

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>P35365

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>Q9R1C8

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>Q5IS65

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>P31388

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>P50407

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>P32304

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>P32305

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>Q91559

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>Q16951

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>Q25190

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>P28190

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>P11616

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>P47745

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>P49892

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>P30542

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>Q60612

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>P34970

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>P25099

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>P46616

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>P29274

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>Q60613

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>P30543

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>Q6W3F4

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>O13076

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>P29275

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>Q60614

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>P29276

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>Q8JG70

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>Q8JG69

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>Q28309

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>P33765

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>Q61618

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>O02667

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>P28647

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>P35342

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>P56489

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>P12657

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>P04761

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>Q5R949

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>P08482

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>P30372

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>P08172

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>Q9ERZ4

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>P06199

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>P10980

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>P08483

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>P08173

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>P32211

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>P08912

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>P56490

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>P08911

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>P97714

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>P30545

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>P22086

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>P43142

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>P31392

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>Q9TT96

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>P79148

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>Q9TST6

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>P08588

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>P34971

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>Q28998

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>O42574

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>Q28044

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>P54833

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>P04274

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>P18762

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>Q28997

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>O02662

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>Q9XT57

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>P13945

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>P25962

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>P25104

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>P43240

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>P79785

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>P30556

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>O35210

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>P30555

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>P35351

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>P29754

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>P32303

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>O97666

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>O70526

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>P30411

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>O97967

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>P47751

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>O88680

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>O09047

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>O55197

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>O70129

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>P79175

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>P21730

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>P79188

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>P30993

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>P79240

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>P79234

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>P97520

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>O08707

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>O09027

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>O97772

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>P32246

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>P51683

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>O55193

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>P51677

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>Q9BDS8

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>P51678

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>O54814

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>P51679

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>P51680

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>Q95NC9

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>Q95NC2

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>P56493

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>P56439

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>P61814

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>P51682

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>P60574

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>P56440

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>P68269

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>P68270

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>P61756

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>O97881

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>O97962

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>O97880

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>O97882

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>O08556

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>P61757

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>Q95NC1

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>O97878

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>O97879

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>P51684

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>O54689

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>P47774

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>P51685

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>P56484

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>P51686

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>Q9Y271

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>Q924T8

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>Q924T9

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>P97468

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>O35786

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>Q8BMP4

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>O08878

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>Q98894

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>Q98895

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>O02777

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>P21554

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>Q71SP5

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>Q5IS73

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>P56971

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>P20272

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>Q9PUI7

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>P34972

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>P47936

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>Q9Z0D9

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>P35411

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>P55919

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>P25024

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>P55920

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>P21109

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>P70612

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>O97571

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>P25025

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>P35343

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>P35344

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>P35407

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>Q5MD61

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>Q867B2

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>O88410

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>Q9JII9

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>P25930

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>O62747

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>P56498

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>P61073

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>Q28474

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>P79394

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>P61072

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>P56491

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>O08565

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>P32302

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>P34997

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>O18983

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>O00574

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>Q9XT45

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>O19024

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>Q9TV16

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>P42291

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>P53452

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>P35406

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>P42288

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>P21728

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>O77680

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>Q61616

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>P50130

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>P18901

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>P42289

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>P24628

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>P20288

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>Q9GJU1

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>P52702

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>P14416

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>O73810

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>P61168

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>P60026

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>P61169

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>P35462

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>P30728

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>Q5IS72

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>P19020

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>P51436

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>Q6TLJ0

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>P30729

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>P53454

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>P21918

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>P25115

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>P42290

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>O08530

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>P48303

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>Q28031

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>O95977

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>Q684M3

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>P21450

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>P25101

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>Q61614

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>Q29010

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>P26684

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>Q95L55

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>P56497

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>O62709

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>P24530

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>P48302

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>P35463

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>Q9N0W7

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>P21451

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>O60883

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>P25090

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>O08790

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>P25089

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>P35376

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>Q8R428

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>P79763

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>Q95179

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>Q5GJ04

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>P47799

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>P23945

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>Q6YNB6

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>P32212

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>Q6R6L8

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>P35378

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>P49059

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>P20395

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>P35379

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>P56479

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>Q62805

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>O88854

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>O08726

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>O60755

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>O88853

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>O88626

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>P30552

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>P32239

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>P56481

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>P30796

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>P46627

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>P30553

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>Q99P50

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>P46089

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>O15529

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>Q9I919

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>P60893

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>P60894

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>P30550

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>P21729

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>P52500

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>P34987

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>P31389

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>P22888

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>P30730

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>P16582

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>P16235

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>Q28585

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>O88855

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>P30554

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>P32244

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>P41149

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>P49285

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>P48039

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>Q61184

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>P49217

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>P48040

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>P49286

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>Q8CIQ6

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>P49288

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>O88495

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>Q28558

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>Q90252

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>P30547

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>P25103

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>Q98982

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>P14600

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>P05363

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>Q64077

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>P21452

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>P51144

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>P30549

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>P79218

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>P16610

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>P30098

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>P29371

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>P47937

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>P16177

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>P28336

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>O54799

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>P24053

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>O55040

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>P48145

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>P48146

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>P21555

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>P79113

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>P49146

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>Q9GK74

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>P97295

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>O02836

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>P50391

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>O97969

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>P79217

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>P30989

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>O95665

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>P23265

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>Q8NH59

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>Q8NGJ9

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>Q9H2C8

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>Q9UKL2

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>Q9H2C5

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>Q96RD2

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>Q8NGK2

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>Q9H346

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>Q8NGJ3

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>Q8NGJ4

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>Q8NGH9

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>Q8NH55

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>Q96RD3

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>Q8NGJ2

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>Q8NH67

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>Q8NGK4

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>Q8NGK3

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>Q8NGH6

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>Q8NH54

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>Q8NH76

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>Q9NZP5

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>Q8NHC6

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>Q8NHC7

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>Q25322

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>Q17232

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>Q25188

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>Q9VCZ3

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>Q60891

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>Q60878

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>Q60881

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>P34985

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>P34983

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>Q60882

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>Q60884

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>Q60886

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>Q60887

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>Q60888

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>Q60895

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>Q60893

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>Q9QY00

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>P23267

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>Q8VG44

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>Q8VFC9

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>Q8VGI4

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>Q8VGI6

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>Q8VG04

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>Q8VG03

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>Q8VFD3

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>Q8VG02

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>Q8VEW5

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>Q8VG07

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>Q8VF12

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>Q8VEW6

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>Q8VF76

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>Q60890

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>Q60894

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>P34984

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>P23275

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>P23274

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>Q9JHB2

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>Q95154

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>P37067

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>Q8VGI1

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>P70526

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>Q95155

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>P37068

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>Q95156

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>P37069

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I I I I L I S Y V F I I L T V V M I R S K D G K Y K A F S T C T S H L M A V S L F H G T V I F M Y L R P V K F L S L D T D K I A S L F Y T V
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>Q60879

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>Q95157

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>P37070

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>P37071

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>Q60889

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>Q8VBW9

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>P37072

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>P34986

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>Q60892

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>Q60885

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>P30955

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>P23271

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LIVISYAKI I S S I L K V P S T Q S I H K V F S T C G S H L S V V S L F Y G T I I G L Y L C P S G D N F S L K G S A M A M M Y T V V T
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>P23272

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>Q9W6A9

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>Q9W6A8

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>Q9WUK7

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>Q5YKK9

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>Q9UHM6

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>Q8R456

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>Q6U736

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>P41143

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>P32300

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>P33533

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>P41144

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>P41145

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>P33534

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>P34975

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>P35372

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>Q95M54

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>Q9MYW9

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>P42866

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>Q5IS39

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>Q95247

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>P33535

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>P47748

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>P41146

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>P35377

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>P79292

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>P35370

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>P22269

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>P06002

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>P28678

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>P08099

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>P28679

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>Q26495

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>P28680

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>P08255

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>P29404

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>P17646

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>O01668

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>P51471

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>P90680

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>P51472

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>P51490

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>P32310

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>O13227

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>P35357

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QVAPA

>P03999

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>P51491

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IRFNSKHALMVVLATWIIIGIVSI PPF GWSRFIPEGLQCSCGPDWYTVGTYRSEYTWFLFIFCFIIP
LSLICFSYSQLLRTRAVAAQQQESATTQKAEREVSHMVVMVGSFCLCYVPYAAALAMYMNRRNHGLDL
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>P87365

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MFLFCFCFAVPFSIIVFCYSQLLFTLKMAAKAQADSASTQKAEKEVTRMVVMVVAFLVCYVPYASFALW
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PS

>P60573

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>P60015

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GNFRFSSKHALTVVLATWTIGIGVSI PPF GWSRFIPEGLQCSCGPDWYTVGTYRSESYTWFLFIFCFI
VPLSLICFSYTLRALKAVAAQQQESATTQKAEREVSRMVVMVGSFCVCYVPYAAFAMYMNRRNHGL
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>O13092

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>Q25158

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>Q90214

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PA

>Q90215

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PA

>P52202

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PA

>Q90245

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VSPA

>P41591

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PA

>Q17053

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>P41590

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>Q9YGZ1

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>P02699

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>P35359

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VSPA

>P56514

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VSPA

>P56515

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VSPA

>Q6W3E1

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>Q17292

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>O18312

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>O16017

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>O16018

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>P32308

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>P32309

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VSPA

>Q17296

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>Q9YGZ8

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KPI SNFRFSEDHAIMGLAFTWVMASACAVPPLVGWSRYIPEGMQCSCGIDYITRAEGFN NESFVIYMFVC
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SPA

>P22328

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K P M S N F R F G E N H A I M G V A F S W I M A M A C A A P P L F G W S R Y I P E G M Q C S C G I D Y Y T L K P E I N N E S F V I Y M F V V
H F M I P L A V I F F C Y G N L V C T V K E A A A Q Q E S A T T Q K A E K E V T R M V I I M V I A F L I C W V P Y A S V A F Y I F T H Q G
S D F G P I F M T I P A F F A K S S A I Y N P V I Y I V M N K Q F R N C M I T T L C C G K N P L G D E D T S A G K T E T S S V S T S Q V S P
A

>P28681

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H F T I P L I V I F F C Y Q L V F T V K E A A A Q Q E S A T T Q K A E K E V T R M V I L M V V F F L I C W F P Y A G V A F Y I F T H Q G
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>P51488

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K P V S N F R F G E N H A I M G V V F T W F M A C T C A V P P L V G W S R Y I P E G M Q C S C G V D Y Y T R A P G Y N N E S F V I Y M F L V
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S E F G P V F M T V P A F F A K S A A V Y N P C I Y I C M N K Q F R H C M I T T L C C G K N P F E E E E G A S T A S K T E A S S V S S S S
V S P A

>O62791

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>Q9YGZ4

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>O62792

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>O42268

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>P09241

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>P87369

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>Q98980

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>O62795

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>O62794

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>O18766

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>P79848

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>P35403

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>O18486

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>P49912

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>P51470

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>P31355

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>P56516

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>P51489

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>Q9YGZ3

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>P79898

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>P79901

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>Q9YGZ0

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>P79902

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>Q9YH03

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>P79903

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>O93459

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>Q9YGZ5

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>P35362

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>P31356

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>O62796

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>O62798

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>P29403

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>O42604

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>Q9YGY9

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>P22330

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>P32311

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>P22331

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>Q8AYM8

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>P32312

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>P51474

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>Q8AYM7

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>Q9W6A6

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>Q9R024

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>P28683

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>P35358

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>P04001

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>O35599

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>P87366

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>O18910

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>O35476

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>O35478

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>P34989

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>P35360

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>P35361

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>O13018

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>P51475

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>P51476

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>P22332

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>Q95170

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>P32313

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>P22329

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>O18913

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>P04000

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>P87367

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>O12948

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>O61303

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>Q90309

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>O57605

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>P28684

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>P87368

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>Q96R48

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>Q96R45

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>O76000

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>P58173

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>O95371

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>Q8NGH3

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>O95918

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>Q8NGF7

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>P49650

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>P41231

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>P35383

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>O93361

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>P32250

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>P30558

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>P56488

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>P70263

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>P34995

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>P70597

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>P43116

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>Q62928

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>P30557

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>P50131

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>P46069

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>P34980

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>P35408

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>P37289

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>P43118

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>Q28905

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>P43119

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>P43252

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>P79945

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>P47804

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>P30873

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>P34993

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>P34994

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>P30680

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>P32745

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>P31391

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>P30937

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>P35346

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>Q99MT6

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>Q95125

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>P56486

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>Q923Y2

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>Q5QD11

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>Q923X8

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>Q5QD10

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>Q923X5

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>Q5QD09

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>Q923X6

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>Q5QD08

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>Q923Y1

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>Q923Y4

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>Q5QD07

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>Q923X9

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>Q5QD06

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>Q923Y3

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>Q5QD05

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>Q923Y0

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>Q96RJ0

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>Q8HZ64

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>Q923Y8

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>Q5QD29

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>Q923Y9

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>Q5QD17

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>Q5QD25

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>Q9P1P4

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>Q5QD16

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>Q5QD24

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>Q5QD15

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>Q923Y7

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>O14804

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>Q5QD14

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>Q5QD28

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>Q5QD23

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>Q96RI8

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>Q5QD13

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>Q923Y5

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>Q969N4

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>Q96RI9

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>Q5QD04

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>Q923Y6

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>O46639

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>O93603

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>P34981

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>P21761

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>Q28596

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>Q27987

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>Q9BGN4

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>P16473

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>P47750

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>Q8SPP9

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>P21463

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>P56495

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>P52381

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>O12000

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>Q8HYC3

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>Q8VIH9

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>P49684

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>P37288

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>Q9WTV8

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>Q9WTV9

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(2) 267 Secretin like GPCR

>O60241

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>O88278

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>Q90812

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>P34998

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>P35347

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>P35353

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>O62772

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>O42602

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>Q13324

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>P47866

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>O42603

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>Q16983

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>P35464

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>Q14246

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>Q9BY15

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>Q02643

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>P32082

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>P34999

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>P48546

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>P43218

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>P43219

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>P43220

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>O35659

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>P32301

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>Q9Z0W0

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>P47871

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>Q61606

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>O94910

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>O97814

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>O95490

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>O88923

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>P41586

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>P25107

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>P50133

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>P25961

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>P49190

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>P41587

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>P35000

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(3) 160 Metabotropic glutamate / pheromone GPCR

>P22815

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>Q24738

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>P41594

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IKNHKGKLLY

>O35192

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>O35197

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SFRRWEE LGARRIWI TTSQWDVITNKKDFTLNLFHG TITFAHHRVEIPKLNKFMQTMNTAKY PVDISHTI
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>O35198

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>O35199

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>035202

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CILGYLACLALGNFSAFLAKNLPDTFNEAKFLTFSMLVFCVSVVWTFPLPVYHSTKGKHMVAEIFSILAS
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>035265

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>035266

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>035267

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>O35269

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>O35271

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>O73635

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>073636

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>073637

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>073638

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>073639

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>073640

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>093552

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LQAY

>O93553

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>Q717C2

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>Q923K1

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>P56502

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>P78741

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>O59844

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>O74282

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SKV

>O74283

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>P31302

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>P31303

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>Q33DU6

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>Q4A3F8

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>Q5Y222

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>Q6CXP8

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>Q6TMC7

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>Q6TMD1

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>Q757Z1

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>Q875K7

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>P12384

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>P06783

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>P18537

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>O70421

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>Q08463

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>Q08464

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>Q9NPG1

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>Q61086

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>O42579

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>Q9ULV1

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>Q61088

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>Q9QZH0

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>Q9PT62

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>Q13467

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>Q9EQD0

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>P58421

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>O60353

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>Q61089

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>O57329

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>O75084

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>Q9PUK8

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>Q61091

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>O93274

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>O00144

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>O16147

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>Q2TAR6

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>Q2WC00

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>Q3V1B2

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>Q498S8

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>Q4H2S9

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>Q4RKP7

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>Q4S970

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>Q4VBD5

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>Q53S59

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>Q5XH3

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>Q66KA3

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>Q6GL20

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