

eolf-othd-000002 (1)
SEQUENCE LISTING

<110> F. Hoffmann la Roche

<120> NUCLEIC ACID MOLECULES FOR REDUCTION OF PAPD5 AND/OR PAPD7 mRNA FOR
TREATING HEPATITIS B INFECTION

<130> P33547-WO

<160> 267

<170> PatentIn version 3.5

<210> 1

<211> 698

<212> PRT

<213> Homo sapiens

<400> 1

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35 40 45

Ser Ser Thr Gly Ser Pro Gly Gly Ala Ala Ser Ala Pro Ala Pro Ala
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Pro Ala Gly Met Tyr Arg Ser Gly Glu Arg Leu Leu Gly Ser His Ala
65 70 75 80

Leu Pro Ala Glu Gln Arg Asp Phe Leu Pro Leu Glu Thr Thr Asn Asn
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Asn Asn Asn His His Gln Pro Gly Ala Trp Ala Arg Arg Ala Gly Ser
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115 120 125

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Ala Val Pro Ala Ala Asp Pro Ala Asp Ser Ala Ser Gly Ser Ser Asn
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Lys Arg Lys Arg Asp Asn Lys Ala Ser Thr Tyr Gly Leu Asn Tyr Ser
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Leu Leu Gln Pro Ser Gly Gly Arg Ala Ala Gly Gly Gly Arg Ala Asp
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Gly Gly Gly Val Val Tyr Ser Gly Thr Pro Trp Lys Arg Arg Asn Tyr
180 185 190

Asn Gln Gly Val Val Gly Leu His Glu Glu Ile Ser Asp Phe Tyr Glu
195 200 205

Tyr Met Ser Pro Arg Pro Glu Glu Glu Lys Met Arg Met Glu Val Val
210 215 220

Asn Arg Ile Glu Ser Val Ile Lys Glu Leu Trp Pro Ser Ala Asp Val
225 230 235 240

Gln Ile Phe Gly Ser Phe Lys Thr Gly Leu Tyr Leu Pro Thr Ser Asp
245 250 255

Ile Asp Leu Val Val Phe Gly Lys Trp Glu Asn Leu Pro Leu Trp Thr
260 265 270

Leu Glu Glu Ala Leu Arg Lys His Lys Val Ala Asp Glu Asp Ser Val
275 280 285

Lys Val Leu Asp Lys Ala Thr Val Pro Ile Ile Lys Leu Thr Asp Ser
290 295 300

Phe Thr Glu Val Lys Val Asp Ile Ser Phe Asn Val Gln Asn Gly Val
305 310 315 320

Arg Ala Ala Asp Leu Ile Lys Asp Phe Thr Lys Lys Tyr Pro Val Leu
325 330 335

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Pro Tyr Leu Val Leu Val Leu Lys Gln Phe Leu Leu Gln Arg Asp Leu
340 345 350

Asn Glu Val Phe Thr Gly Gly Ile Gly Ser Tyr Ser Leu Phe Leu Met
355 360 365

Ala Val Ser Phe Leu Gln Leu His Pro Arg Glu Asp Ala Cys Ile Pro
370 375 380

Asn Thr Asn Tyr Gly Val Leu Leu Ile Glu Phe Phe Glu Leu Tyr Gly
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Arg His Phe Asn Tyr Leu Lys Thr Gly Ile Arg Ile Lys Asp Gly Gly
405 410 415

Ser Tyr Val Ala Lys Asp Glu Val Gln Lys Asn Met Leu Asp Gly Tyr
420 425 430

Arg Pro Ser Met Leu Tyr Ile Glu Asp Pro Leu Gln Pro Gly Asn Asp
435 440 445

Val Gly Arg Ser Ser Tyr Gly Ala Met Gln Val Lys Gln Ala Phe Asp
450 455 460

Tyr Ala Tyr Val Val Leu Ser His Ala Val Ser Pro Ile Ala Lys Tyr
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Tyr Pro Asn Asn Glu Thr Glu Ser Ile Leu Gly Arg Ile Ile Arg Val
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Thr Asp Glu Val Ala Thr Tyr Arg Asp Trp Ile Ser Lys Gln Trp Gly
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Leu Lys Asn Arg Pro Glu Pro Ser Cys Asn Gly Asn Gly Val Thr Leu
515 520 525

Ile Val Asp Thr Gln Gln Leu Asp Lys Cys Asn Asn Asn Leu Ser Glu
530 535 540

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Glu Asn Glu Ala Leu Gly Lys Cys Arg Ser Lys Thr Ser Glu Ser Leu
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Ser Lys His Ser Ser Asn Ser Ser Ser Gly Pro Val Ser Ser Ser Ser
565 570 575

Ala Thr Gln Ser Ser Ser Ser Asp Val Asp Ser Asp Ala Thr Pro Cys
580 585 590

Lys Thr Pro Lys Gln Leu Leu Cys Arg Pro Ser Thr Gly Asn Arg Val
595 600 605

Gly Ser Gln Asp Val Ser Leu Glu Ser Ser Gln Ala Val Gly Lys Met
610 615 620

Gln Ser Thr Gln Thr Thr Asn Thr Ser Asn Ser Thr Asn Lys Ser Gln
625 630 635 640

His Gly Ser Ala Arg Leu Phe Arg Ser Ser Ser Lys Gly Phe Gln Gly
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Thr Thr Gln Thr Ser His Gly Ser Leu Met Thr Asn Lys Gln His Gln
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Gly Lys Ser Asn Asn Gln Tyr Tyr His Gly Lys Lys Arg Lys His Lys
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Arg Asp Ala Pro Leu Ser Asp Leu Cys Arg
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<210> 2
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<212> PRT
<213> Homo sapiens

<400> 2

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Arg Ala Arg Leu Arg Ser Ser Arg Thr Pro Ser Gly Gly Ala Ser Gly

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Gly Gly Gly Ser Ser Ser Ser Ser Ser Thr Ala Thr Gly Gly Ser Gly
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Ser Ser Thr Gly Ser Pro Gly Gly Ala Ala Ser Ala Pro Ala Pro Ala
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Pro Ala Gly Met Tyr Arg Ser Gly Glu Arg Leu Leu Gly Ser His Ala
 65 70 75 80

Leu Pro Ala Glu Gln Arg Asp Phe Leu Pro Leu Glu Thr Thr Asn Asn
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Asn Asn Asn His His Gln Pro Gly Ala Trp Ala Arg Arg Ala Gly Ser
 100 105 110

Ser Ala Ser Ser Pro Pro Ser Ala Ser Ser Ser Pro His Pro Ser Ala
 115 120 125

Ala Val Pro Ala Ala Asp Pro Ala Asp Ser Ala Ser Gly Ser Ser Asn
 130 135 140

Lys Arg Lys Arg Asp Asn Lys Ala Ser Thr Tyr Gly Leu Asn Tyr Ser
 145 150 155 160

Leu Leu Gln Pro Ser Gly Gly Arg Ala Ala Gly Gly Gly Arg Ala Asp
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Gly Gly Gly Val Val Tyr Ser Gly Thr Pro Trp Lys Arg Arg Asn Tyr
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Asn Gln Gly Val Val Gly Leu His Glu Glu Ile Ser Asp Phe Tyr Glu
 195 200 205

Tyr Met Ser Pro Arg Pro Glu Glu Glu Lys Met Arg Met Glu Val Val
 210 215 220

Asn Arg Ile Glu Ser Val Ile Lys Glu Leu Trp Pro Ser Ala Asp Val

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Ile	Asp	Leu	Val	Val	Phe	Thr
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Leu	Glu	Glu	Ala	Leu	Arg	Val
			275			285
Lys	Val	Leu	Asp	Lys	Ala	Thr
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Phe	Thr	Glu	Val	Lys	Val	Asp
305					310	315
Arg	Ala	Ala	Asp	Leu	Ile	Lys
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Pro	Tyr	Leu	Val	Leu	Val	Leu
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Asn	Glu	Val	Phe	Thr	Gly	Gly
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Ala	Val	Ser	Phe	Leu	Gln	Leu
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Ser	Tyr	Val	Ala	Lys	Asp	Glu
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435

440

445

Val Gly Arg Ser Ser Tyr Gly Ala Met Gln Val Lys Gln Ala Phe Asp
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Tyr Ala Tyr Val Val Leu Ser His Ala Val Ser Pro Ile Ala Lys Tyr
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Tyr Pro Asn Asn Glu Thr Glu Ser Ile Leu Gly Arg Ile Ile Arg Val
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Thr Asp Glu Val Ala Thr Tyr Arg Asp Trp Ile Ser Lys Gln Trp Gly
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Leu Lys Asn Arg Pro Glu Pro Ser Cys Asn Gly Asn Gly Val Thr Leu
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Ile Val Asp Thr Gln Gln Leu Asp Lys Cys Asn Asn Asn Leu Ser Glu
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Glu Asn Glu Ala Leu Gly Lys Cys Arg Ser Lys Thr Ser Glu Ser Leu
 545 550 555 560

Ser Lys His Ser Ser Asn Ser Ser Ser Gly Pro Val Ser Ser Ser Ser
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Ala Thr Gln Ser Ser Ser Ser Asp Val Asp Ser Asp Ala Thr Pro Cys
 580 585 590

Lys Thr Pro Lys Gln Leu Leu Cys Arg Pro Ser Thr Gly Asn Arg Val
 595 600 605

Gly Ser Gln Asp Val Ser Leu Glu Ser Ser Gln Ala Val Gly Lys Met
 610 615 620

Gln Ser Thr Gln Thr Thr Asn Thr Ser Asn Ser Thr Asn Lys Ser Gln
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His Gly Ser Ala Arg Leu Phe Arg Ser Ser Ser Lys Gly Phe Gln Gly

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645

650

655

Thr Thr Gln Thr Ser His Gly Ser Leu Met Thr Asn Lys Gln His Gln
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Arg Asp Ala Pro Leu Ser Asp Leu Cys Arg
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<213> Homo sapiens

<400> 3

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Gly Gly Ser Gly Phe Ala Ser Tyr Phe Cys Leu Asn Ser Pro Ala Leu
35 40 45

Asp Thr Ala Ala Ala Ala Gly Ala Ala Gly Arg Gly Ser Gly Gly Leu
50 55 60

Gly Pro Ala Leu Pro Ala Ala Ser Pro Pro Pro Gly Pro Thr Ala
65 70 75 80

Pro Ala Ala Leu Pro Pro Ala Leu Leu Thr Ala Leu Gly Pro Ala Ala
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Glu Gly Ala Arg Arg Leu His Lys Ser Pro Ser Leu Ser Ser Ser Ser
100 105 110

Ser Ser Ser Ser Ser Asn Ala Glu Ser Gly Thr Glu Ser Pro Gly Cys
115 120 125

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Ser Ser Ser Ser Ser Ser Ser Ala Ser Leu Gly Arg Pro Gly Gly Gly
130 135 140

Arg Gly Gly Ala Phe Phe Asn Phe Ala Asp Gly Ala Pro Ser Ala Pro
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Gly Thr Ala Asn Gly His Pro Gly Pro Arg Gly Pro Ala Pro Ala Gly
165 170 175

Ser Pro Ser Gln His Gln Phe His Pro Gly Arg Arg Lys Arg Glu Asn
180 185 190

Lys Ala Ser Thr Tyr Gly Leu Asn Tyr Leu Leu Ser Gly Ser Arg Ala
195 200 205

Ala Ala Leu Ser Gly Gly Gly Gly Pro Gly Ala Gln Ala Pro Arg Pro
210 215 220

Gly Thr Pro Trp Lys Ser Arg Ala Tyr Ser Pro Gly Ile Gln Gly Leu
225 230 235 240

His Glu Glu Ile Ile Asp Phe Tyr Asn Phe Met Ser Pro Cys Pro Glu
245 250 255

Glu Ala Ala Met Arg Arg Glu Val Val Lys Arg Ile Glu Thr Val Val
260 265 270

Lys Asp Leu Trp Pro Thr Ala Asp Val Gln Ile Phe Gly Ser Phe Ser
275 280 285

Thr Gly Leu Tyr Leu Pro Thr Ser Asp Ile Asp Leu Val Val Phe Gly
290 295 300

Lys Trp Glu Arg Pro Pro Leu Gln Leu Leu Glu Gln Ala Leu Arg Lys
305 310 315 320

His Asn Val Ala Glu Pro Cys Ser Ile Lys Val Leu Asp Lys Ala Thr
325 330 335

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Val Pro Ile Ile Lys Leu Thr Asp Gln Glu Thr Glu Val Lys Val Asp
340 345 350

Ile Ser Phe Asn Met Glu Thr Gly Val Arg Ala Ala Glu Phe Ile Lys
355 360 365

Asn Tyr Met Lys Lys Tyr Ser Leu Leu Pro Tyr Leu Ile Leu Val Leu
370 375 380

Lys Gln Phe Leu Leu Gln Arg Asp Leu Asn Glu Val Phe Thr Gly Gly
385 390 395 400

Ile Ser Ser Tyr Ser Leu Ile Leu Met Ala Ile Ser Phe Leu Gln Leu
405 410 415

His Pro Arg Ile Asp Ala Arg Arg Ala Asp Glu Asn Leu Gly Met Leu
420 425 430

Leu Val Glu Phe Phe Glu Leu Tyr Gly Arg Asn Phe Asn Tyr Leu Lys
435 440 445

Thr Gly Ile Arg Ile Lys Glu Gly Gly Ala Tyr Ile Ala Lys Glu Glu
450 455 460

Ile Met Lys Ala Met Thr Ser Gly Tyr Arg Pro Ser Met Leu Cys Ile
465 470 475 480

Glu Asp Pro Leu Leu Pro Gly Asn Asp Val Gly Arg Ser Ser Tyr Gly
485 490 495

Ala Met Gln Val Lys Gln Val Phe Asp Tyr Ala Tyr Ile Val Leu Ser
500 505 510

His Ala Val Ser Pro Leu Ala Arg Ser Tyr Pro Asn Arg Asp Ala Glu
515 520 525

Ser Thr Leu Gly Arg Ile Ile Lys Val Thr Gln Glu Val Ile Asp Tyr
530 535 540

Arg Arg Trp Ile Lys Glu Lys Trp Gly Ser Lys Ala His Pro Ser Pro
545 550 555 560

Gly Met Asp Ser Arg Ile Lys Ile Lys Glu Arg Ile Ala Thr Cys Asn
565 570 575

Gly Glu Gln Thr Gln Asn Arg Glu Pro Glu Ser Pro Tyr Gly Gln Arg
580 585 590

Leu Thr Leu Ser Leu Ser Ser Pro Gln Leu Leu Ser Ser Gly Ser Ser
595 600 605

Ala Ser Ser Val Ser Ser Leu Ser Gly Ser Asp Val Asp Ser Asp Thr
610 615 620

Pro Pro Cys Thr Thr Pro Ser Val Tyr Gln Phe Ser Leu Gln Ala Pro
625 630 635 640

Ala Pro Leu Met Ala Gly Leu Pro Thr Ala Leu Pro Met Pro Ser Gly
645 650 655

Lys Pro Gln Pro Thr Thr Ser Arg Thr Leu Ile Met Thr Thr Asn Asn
660 665 670

Gln Thr Arg Phe Thr Ile Pro Pro Pro Thr Leu Gly Val Ala Pro Val
675 680 685

Pro Cys Arg Gln Ala Gly Val Glu Gly Thr Ala Ser Leu Lys Ala Val
690 695 700

His His Met Ser Ser Pro Ala Ile Pro Ser Ala Ser Pro Asn Pro Leu
705 710 715 720

Ser Ser Pro His Leu Tyr His Lys Gln His Asn Gly Met Lys Leu Ser
725 730 735

Met Lys Gly Ser His Gly His Thr Gln Gly Gly Gly Tyr Ser Ser Val
740 745 750

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Gly Ser Gly Gly Val Arg Pro Pro Val Gly Asn Arg Gly His His Gln
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Tyr Asn Arg Thr Gly Trp Arg Arg Lys Lys His Thr His Thr Arg Asp
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Ser Leu Pro Val Ser Leu Ser Arg
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Glu Ile Ser Asp Phe Tyr Glu Tyr Met Ser Pro Arg Pro Glu Glu Glu
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Lys Met Arg Met Glu Val Val Asn Arg Ile Glu Ser Val Ile Lys Glu
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Leu Trp Pro Ser Ala Asp Val Gln Ile Phe Gly Ser Phe Lys Thr Gly
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Leu Tyr Leu Pro Thr Ser Asp Ile Asp Leu Val Val Phe Gly Lys Trp
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Glu Asn Leu Pro Leu Trp Thr Leu Glu Glu Ala Leu Arg Lys His Lys
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Val Ala Asp Glu Asp Ser Val Lys Val Leu Asp Lys Ala Thr Val Pro
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Ile Ile Lys Leu Thr Asp Ser Phe Thr Glu Val Lys Val Asp Ile Ser
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Phe Asn Val Gln Asn Gly Val Arg Ala Ala Asp Leu Ile Lys Asp Phe
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Thr Lys Lys Tyr Pro Val Leu Pro Tyr Leu Val Leu Val Leu Lys Gln
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Glu Phe Phe Glu Leu Tyr Gly Arg His Phe Asn Tyr Leu Lys Thr Gly
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Lys Asn Met Leu Asp Gly Tyr Arg Pro Ser Met Leu Tyr Ile Glu Asp
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Pro Leu Gln Pro Gly Asn Asp Val Gly Arg Ser Ser Tyr Gly Ala Met
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Gln Val Lys Gln Ala Phe Asp Tyr Ala Tyr Val Val Leu Ser His Ala
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Val Ser Pro Ile Ala Lys Tyr Tyr Pro Asn Asn Glu Thr Glu Ser Ile
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Leu Gly Arg Ile Ile Arg Val Thr Asp Glu Val Ala Thr Tyr Arg Asp
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Asn Gly Asn Gly Val Thr Leu Ile Val Asp Thr Gln Gln Leu Asp Lys
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Cys Asn Asn Asn Leu Ser Glu Glu Asn Glu Ala Leu Gly Lys Cys Arg
385 390 395 400

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Gly Pro Val Ser Ser Ser Ser Ala Thr Gln Ser Ser Ser Ser Asp Val
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Asp Ser Asp Ala Thr Pro Cys Lys Thr Pro Lys Gln Leu Leu Cys Arg
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Tyr Met Ser Pro Arg Pro Glu Glu Glu Lys Met Arg Met Glu Val Val
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Asn Arg Ile Glu Ser Val Ile Lys Glu Leu Trp Pro Ser Ala Asp Val
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Gln Ile Phe Gly Ser Phe Lys Thr Gly Leu Tyr Leu Pro Thr Ser Asp
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Ile Asp Leu Val Val Phe Gly Lys Trp Glu Asn Leu Pro Leu Trp Thr

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Arg Ala Ala Asp Leu Ile Lys Asp Phe Thr Lys Lys Tyr Pro Val Leu
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Pro Tyr Leu Val Leu Val Leu Lys Gln Phe Leu Leu Gln Arg Asp Leu
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Asn Thr Asn Tyr Gly Val Leu Leu Ile Glu Phe Phe Glu Leu Tyr Gly
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Arg His Phe Asn Tyr Leu Lys Thr Gly Ile Arg Ile Lys Asp Gly Gly
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Ser Tyr Val Ala Lys Asp Glu Val Gln Lys Asn Met Leu Asp Gly Tyr
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Arg Pro Ser Met Leu Tyr Ile Glu Asp Pro Leu Gln Pro Gly Asn Asp
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Val Gly Arg Ser Ser Tyr Gly Ala Met Gln Val Lys Gln Ala Phe Asp
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Tyr Ala Tyr Val Val Leu Ser His Ala Val Ser Pro Ile Ala Lys Tyr

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Thr Asp Glu Val Ala Thr Tyr Arg Asp Trp Ile Ser Lys Gln Trp Gly
340 345 350

Leu Lys Asn Arg Pro Glu Pro Ser Cys Asn Gly Pro Val Ser Ser Ser
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Ser Ala Thr Gln Ser Ser Ser Ser Asp Val Asp Ser Asp Ala Thr Pro
370 375 380

Cys Lys Thr Pro Lys Gln Leu Leu Cys Arg Pro Ser Thr Gly Asn Arg
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Met Gln Ser

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Val Lys Arg Ile Glu Thr Val Val Lys Asp Leu Trp Pro Thr Ala Asp
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Val Gln Ile Phe Gly Ser Phe Ser Thr Gly Leu Tyr Leu Pro Thr Ser
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Asp Ile Asp Leu Val Val Phe Gly Lys Trp Glu Arg Pro Pro Leu Gln
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Leu Leu Glu Gln Ala Leu Arg Lys His Asn Val Ala Glu Pro Cys Ser
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Ile Lys Val Leu Asp Lys Ala Thr Val Pro Ile Ile Lys Leu Thr Asp
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Gln Glu Thr Glu Val Lys Val Asp Ile Ser Phe Asn Met Glu Thr Gly
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Val Arg Ala Ala Glu Phe Ile Lys Asn Tyr Met Lys Lys Tyr Ser Leu
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Leu Pro Tyr Leu Ile Leu Val Leu Lys Gln Phe Leu Leu Gln Arg Asp
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Leu Asn Glu Val Phe Thr Gly Gly Ile Ser Ser Tyr Ser Leu Ile Leu
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Met Ala Ile Ser Phe Leu Gln Leu His Pro Arg Ile Asp Ala Arg Arg
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Gly Ala Tyr Ile Ala Lys Glu Glu Ile Met Lys Ala Met Thr Ser Gly
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Asp Tyr Ala Tyr Ile Val Leu Ser His Ala Val Ser Pro Leu Ala Arg
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Ser Tyr Pro Asn Arg Asp Ala Glu Ser Thr Leu Gly Arg Ile Ile Lys
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