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|------------------------------------------|------------------------|-----|-----|----|----|----|----|----|----|----|---|---|---|---|---|---|---|---|---|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|
| NTDB id 600 KW2 RS01765 WP 011675413.1   | MATKKK....TNFDDITKKYGA | ERD | KAL | AD | AL | AL | IE | KD | FG | KG | S | L | M | R | L | G | E | A | . | AN | Q | K | V | S | V | S | S | G | S | L | A | L | D | I | A | L | G | A | G | G | Y | P | K | G | R | 74 |    |
| NTDB id 269 KZH43 RS08665 WP 001085462.1 | .MAKKP....KKLEEISKKFGA | ERE | KAL | ND | AL | KL | IE | KD | FG | KG | S | I | M | R | L | G | E | R | . | AE | Q | K | V | Q | V | M | S | S | G | S | L | A | L | D | I | A | L | G | S | G | G | Y | P | K | G | R  | 73 |
| NTDB id 228 SPD RS09265 WP 001085462.1   | .MAKKP....KKLEEISKKFGA | ERE | KAL | ND | AL | KL | IE | KD | FG | KG | S | I | M | R | L | G | E | R | . | AE | Q | K | V | Q | V | M | S | S | G | S | L | A | L | D | I | A | L | G | S | G | G | Y | P | K | G | R  | 73 |
| NTDB id 194 SPR RS08825 WP 001085462.1   | .MAKKP....KKLEEISKKFGA | ERE | KAL | ND | AL | KL | IE | KD | FG | KG | S | I | M | R | L | G | E | R | . | AE | Q | K | V | Q | V | M | S | S | G | S | L | A | L | D | I | A | L | G | S | G | G | Y | P | K | G | R  | 73 |
| NTDB id 159 SP                           |                        |     |     |    |    |    |    |    |    |    |   |   |   |   |   |   |   |   |   |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |

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| NTDB id 600 KW2 RS01765 WP 011675413.1   | I | V | E | I | Y | G | P | E | S | S | G | K | T | T | V | A | L | H | A | V | A | A | V | Q | K | E | G | G | I | A | A | F | I | D | A | E | N | A | L | D | P | E | Y | A | K | A | L | G | V | N | I | D | E | L | L | S | Q | P | D | Y | G | E | Q | G | L | I | A | E | K | L | I | T | S | G | A | V | D | L |   |
| NTDB id 269 KZH43 RS08665 WP 001085462.1 | I | I | E | I | Y | G | P | E | S | S | G | K | T | T | V | A | L | H | A | V | A | Q | A | Q | K | E | G | G | I | A | A | F | I | D | A | E | H | A | L | D | P | A | Y | A | A | A | L | G | V | N | I | D | E | L | L | S | Q | P | D | S | G | E | Q | G | L | E | I | A | G | K | L | I | D | S | G | A | V | D | L |
| NTDB id 228 SPD RS09265 WP 001085462.1   | I | I | E | I | Y | G | P | E | S | S | G | K | T | T | V | A | L | H | A | V | A | Q | A | Q | K | E | G | G | I | A | A | F | I | D | A | E | H | A | L | D | P | A | Y | A | A | A | L | G | V | N | I | D | E | L | L | S | Q | P | D | S | G | E | Q | G | L | E | I | A | G | K |   |   |   |   |   |   |   |   |   |

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| NTDB id 600 KW2 RS01765 WP 011675413.1   | VV | I | D | S | V | A | A | L | V | P | K | A | E | I | D | G | S | S | V | G | L | Q | A | R | M | S | Q | A | M | R | K | L | A | G | H | I | N | K | T | K | T | T | A | I | F | I | N | Q | L | R | E | K | V | G | V | M | . | F | G | S | P | E | T | T | P | G | G | R | A | L | K | F | Y | A | 233 |   |   |   |     |
| NTDB id 269 KZH43 RS08665 WP 001085462.1 | V  | V | V | D | S | V | A | A | L | V | P | R | A | E | I | D | G | I | G | D | S | H | V | G | L | Q | A | R | M | S | Q | A | M | R | K | L | G | A | S | I | N | K | T | K | T | I | A | I | F | I | N | Q | L | R | E | K | V | G | V | M | . | F | G | N | P | E | T | T | P | G | G | R | A | L | K   | F | Y | A | 232 |
| NTDB id 228 SPD RS09265 WP 001085462.1   | V  | V | V | D | S | V | A | A | L | V | P | R | A | E | I | D | G | I | G | D | S | H | V | G | L | Q | A | R | M | S | Q | A | M | R | K | L | G | A | S | I | N | K | T | K | T | I | A | I | F | I | N | Q | L | R | E | K | V | G | V | M | . | F | G | N | P | E | T | T | P | G | G | R | A | L | K   |   |   |   |     |

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|--------------------------------------------|----------|----------|---------|-----|-----|--------------|--------|-----|---------|-------|--------|---|-----|-------|------|-----|
| NTDB id 600 KW2 RS01765 WP 011675413.1     | SVRLDVRG | STKIEEGS | .GDNKTQ | IGK | ITK | IKVVKNKVAPPF | KVALVD | IMF | GEGISST | GELIN | IAVEEG | I | IKK | SGAW  | FAYN | 312 |
| NTDB id 269 KZH43 RS08665 WP 001085462.1   | SVRLDVRG | NTQIKGTG | .DQKETN | VGK | ETK | IKVVKNKVAPPF | KEAVVE | IMY | GEGISKT | GELLK | IASDL  | D | IKK | KAGAW | YSYK | 311 |
| NTDB id 228 SPD RS09265 WP 001085462.1     | SVRLDVRG | NTQIKGTG | .DQKETN | VGK | ETK | IKVVKNKVAPPF | KEAVVE | IMY | GEGISKT | GELLK | IASDL  | D | IKK | KAGAW | YSYK | 311 |
| NTDB id 194 SPR RS08825 WP 001085462.1     | SVRLDVRG | NTQIKGTG | .DQKETN | VGK | ETK | IKVVKNKVAPPF | KEAVVE | IMY | GEGISKT | GELLK | IASDL  | D | IKK | KAGAW | YSYK | 311 |
| NTDB id 159 SP RS09750 WP 001085462.1      | SVRLDVRG | NTQIKGTG | .DQKETN | VGK | ETK | IKVVKNKVAPPF | KEAVVE | IMY | GEGISKT | GELLK | IASDL  | D | IKK | KAGAW | YSYK | 311 |
| NTDB id 527 SMSK321 RS11065 WP 001085454.1 | SVRLDVRG | STQIKGTG | .DQKDTN | VGK | ETK | IKVVKNKVAPPF | KEAFVE | IMY | GEGISKT | GELLK | IASDL  | D | IKK | KAGAW | YSYK | 311 |
| NTDB id 499 SM12261 RS08315 WP 078228268.1 | SVRLDVRG | STQIKGTG | .DQKDTN | VGK | ETK | IKVVKNKVAPPF | KEAFVE | IMY | GEGISKT | GELLK | IASDL  | D | IKK |       |      |     |

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|--------------------------------------------|----------|-----------------|----------------|-----------------|----------------|---------------|--------|-----|
| NTDB id 600 KW2 RS01765 WP 011675413.1     | DEKIGQGA | EKAKNYLKEHQDV   | DEIDHKVRAAHG   | LDDSEVAETEEETT  | ASKTKAKAKKEEK  | AVETEEIELELED | .....  | 387 |
| NTDB id 269 KZH43 RS08665 WP 001085462.1   | DEKIGQGS | ENAKKYLAEHPEIF  | DEIDKQVRSKFGL  | IDGEEVSEQDTEN   | KKDE....PKKEEA | ..VNEEVPLDLG  | DELEIE | 385 |
| NTDB id 228 SPD RS09265 WP 001085462.1     | DEKIGQGS | ENAKKYLAEHPEIF  | DEIDKQVRSKFGL  | IDGEEVSEQDTEN   | KKDE....PKKEEA | ..VNEEVPLDLG  | DELEIE | 385 |
| NTDB id 194 SPR RS08825 WP 001085462.1     | DEKIGQGS | ENAKKYLAEHPEIF  | DEIDKQVRSKFGL  | IDGEEVSEQDTEN   | KKDE....PKKEEA | ..VNEEVPLDLG  | DELEIE | 385 |
| NTDB id 159 SP RS09750 WP 001085462.1      | DEKIGQGS | ENAKKYLAEHPEIF  | DEIDKQVRSKFGL  | IDGEEVSEQDTEN   | KKDE....PKKEEA | ..VNEEVPLDLG  | DELEIE | 385 |
| NTDB id 527 SMSK321 RS11065 WP 001085454.1 | DEKIGQGS | ENAKKYLAADNPEV  | FAEIDHQVRVQFGL | IDGEEAAE....SK  | KDE....VAQVDS  | ..VNEEVTLDLG  | DELEIE | 381 |
| NTDB id 499 SM12261 RS08315 WP 078228268.1 | DEKIGQGS | ENAKKYLAADNPEIF | DEIDHQVRVQFGL  | IDGEEIAE....SK  | KDE....AAQVDS  | ..VNEEVTLDLG  | DELEIE | 381 |
| NTDB id 453 Spy49 1753c ACI62003.1         | GEKIGQGS | ENAKRYLADHPQLF  | DEIDRKVRVKFGL  | LEESEEEESAMAV   | ASE.....E..... | TDDLALDLDN    | GIEIE  | 377 |
| NTDB id 408 SMU RS09530 WP 002262392.1     | GEKIGQGS | ENAKKFLADNPEIF  | DDIDHKVRVQYGL  | IEEDNTEEEKQSS</ |                |               |        |     |

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| NTDB id 600 KW2 RS01765 WP 011675413.1      | ... |     | 387 |
| NTDB id 269 KZH43 RS08665 WP 001085462.1    | IEE |     | 388 |
| NTDB id 228 SPD RS09265 WP 001085462.1      | IEE |     | 388 |
| NTDB id 194 SPR RS08825 WP 001085462.1      | IEE |     | 388 |
| NTDB id 159 SP RS09750 WP 001085462.1       | IEE |     | 388 |
| NTDB id 527 SMSK321 RS11065 WP 001085454.1  | IEE |     | 384 |
| NTDB id 499 SM12261 RS08315 WP 078228268.1  | IEE |     | 384 |
| NTDB id 453 Spy49 1753c ACI62003.1          | D.. |     | 378 |
| NTDB id 408 SMU RS09530 WP 002262392.1      | D.. |     | 383 |
| NTDB id 115 BSU 16940 NP 389576.2           | ... |     | 348 |
| NTDB id 625 LCA RS02525 WP 011374196.1      | ... |     | 355 |
| NTDB id 1313 DR RS12030 WP 010888966.1      | ... |     | 363 |
| NTDB id 1245 Cj1673c YP 002345041.1         | ... |     | 343 |
| NTDB id 1214 NCTC11637 00359 SQJ03206.1     | ... |     | 347 |
| NTDB id 1211 C694 RS00795 WP 000963128.1    | ... |     | 347 |
| NTDB id 1334 RAOC RS04870 WP 004918236.1    | ... |     | 343 |
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| NTDB id 1130 NGFG RS03960 WP 003688695.1    | ... |     | 348 |
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| NTDB id 300592 DRB00 RS05860 WP 002914769.1 | ... |     | 352 |
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