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|           |           |                                |                                  |                                                       |             |
|-----------|-----------|--------------------------------|----------------------------------|-------------------------------------------------------|-------------|
| NTDB      | id 1029   | TT RS02230 WP 011228203.1      | .....MPVYQYKARDRQGR.L            | VEATIEAEDLRTAARLRLDRGLFVAETKEPGKGQLAEVRIPALERGPGLK    | 65          |
| NTDB      | id 1169   | A1552VC RS11075 WP 000648511.1 | MKAT.....QTLPLKKNYRWKGINSNKK     | VSGQMLAISEIEVRDKLKDQHIQIKKLLKKGVSLLAR.....LTHRVKSK    | 68          |
| NTDB      | id 1402   | DSB67 RS12670 WP 010643257.1   | .MKT.....IAPQLKKNYRWKGINSSGKK    | TSGNVLAMTEIEVRERLDAQHIKIKKLLKKGSGISFITK.....ISHRVKGGK | 67          |
| NTDB      | id 1113   | AAA85695.1 219..1451()         | .MAKNGGFSFLAKKEKRFIFEGRHSASDKLVN | NGVEVSFAFTEEEARKKLAKRGIPLQITRVK.....T....SSKRKITQE    | 70          |
| NTDB      | id 1112   | NGFG RS09215 WP 003689811.1    | .MAKNGGFSFLAKKEKRFIFEGRHSASDKLVN | NGVEVSFAFTEEEARKKLAKRGIPLQITRVK.....T....SSKRKITQE    | 70          |
| NTDB      | id 1252   | GCO85 RS07730 WP 011213805.1   | .MDK.....NSPPLTLFHYQGINKAGQK     | MEGDIQARSLATAKADLRKQGIVTNKVVKKRKPFLFDR.....KNKKITQA   | 67          |
| NTDB      | id 1016   | ACIAD RS01680 WP 004920476.1   | MAAK.....KTQVMPVFAYEGVDRKGIK     | LKGELPARNMALAKVTLRKQGITIRTIREKRKNIFEG....LLKKKVKPL    | 69          |
| NTDB      | id 1059   | ABD1 RS01610 WP 000279215.1    | MAVK.....KAQMMPTFAYEGVDRKGVK     | IKGELPAKNMALAKVTLRKQGVTVRNIREKRKNILEG....LFKKKVTTL    | 69          |
| NTDB      | id 195578 | BG483 RS25640 WP 023101565.1   | .MAD.....KALKTSVFIWEGTDKKGAK     | VKGELTGQNPMLVKAHLRKQGINPLKVRKKGISLLG.....AGKKVKPM     | 66          |
| NTDB      | id 1198   | PSJM300 03950 AFN76868.1       | .MAQ.....KAIKNSVFTWGLDRQGA       | IKGELSGVSPALVKAQLRKQGINPQKVRKKGISLFS.....AGKKIKPM     | 66          |
| consensus |           |                                | ***                              | * * * * *                                             | ! * * * * * |

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|------|----|--------|------------|-------------|----|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|-----|-----|
| NTDB | id | 1029   | TT         | RS02230     | WP | 011228203.1 | D | L | A | I | F | S | R | Q | L | A | T | M | L | G | A | C | L | T | L | L | Q | A | L | A | I | L | E | R | Q | T | E | N | R | K | F | R | E | I   | L | K | Q | V | R | T | D | V | E | G | G | M | A | F | S | E | A | L | S | K | H | . | K | I | F | S | R | L | Y | V | N | L | V | R | A | G | E | T | S | G | G   | L   | 144 |
| NTDB | id | 1169   | A1552VC    | RS11075     | WP | 000648511.1 | D | I | T | I | L | T | R | Q | L | A | T | M | L | T | T | G | V | P | I | V | Q | A | L | K | L | V | G | D | N | H | R | K | A | E | M | K | S | I   | L | A | Q | I | T | K | S | V | E | A | G | T | P | L | S | K | A | M | R | T | A | S | A | H | F | D | T | L | Y | V | D | L | V | E | T | G | E | M | S | G | N   | L   | 148 |
| NTDB | id | 1402   | DSB67      | RS12670     | WP | 010643257.1 | D | I | T | I | F | T | R | Q | L | A | T | M | L | M | T | G | V | P | I | V | Q | A | L | K | L | V | S | E | N | H | K | K | A | E | M | K | S | I   | L | M | S | V | T | R | A | V | E | A | G | T | P | M | S | K | A | M | R | T | A | S | T | H | F | D | P | L | Y | T | D | L | I | A | T | G | E | Q | S | G | N   | L   | 147 |
| NTDB | id | 1113   | AAA85695.1 | 219..1451() |    |             | D | I | T | V | F | T | R | Q | L | S | T | M | I | N | A | G | L | P | L | M | Q | A | F | E | I | V | A | R | G | H | N | P | S | M | T | E | M | L   | M | E | I | R | G | Q | V | E | Q | G | S | S | L | S | R | A | F | S | N | H | P | K | Y | F | D | R | F | Y | C | N | L | V | A | A | G | E | T | G | G | V | L   | 150 |     |
| NTDB | id | 1112   | NGCF       | RS09215     | WP | 003689811.1 | D | I | T | V | F | T | R | Q | L | S | T | M | I | K | A | G | L | P | L | M | Q | A | F | E | I | V | A | R | G | H | N | P | S | M | T | E | M | L   | M | E | I | R | G | Q | V | E | Q | G | S | S | L | R | A | F | S | N | H | P | K | Y | F | D | R | F | Y | C | N | L | V | A | A | G | E | T | G | G | V | L | 150 |     |     |
| NTDB | id | 1252   | GCO85      | RS07730     | WP | 011213805.1 | D | I | T | V | F | S | R | Q | L | A | T | M | L | E | S | G | L | P | L | M | Q | A | F | E | I | V | A | K | Q | S | N | K | R | L | K | D | L | I   | E | T | I | K | H | D | I | E | T | G | L | T | L | A | E | S | L | I | K | H | P | L | Y | F | N | E | L | F | C | N | L | V | D | A | G | E | K | S | G | S | L   | 147 |     |
| NTDB | id | 1016   | ACIAD      | RS01680     | WP | 004920476.1 | D | I | A | I | F | T | R | Q | L | A | T | M | M | K | A | G | V | P | L | V | Q | A | F | E | I | V | A | E | G | L | E | N | P | A | M | R | D | V   | V | L | G | L | K | N | E | V | E | G | G | N | T | F | A | G | A | L | R | K | Y | P | Q | Y | F | D | N | L | F | C | S | L | I | E | S | G | E | Q | S | G | S   | L   | 149 |
| NTDB | id | 1059   | ABD1       | RS01610     | WP | 000279215.1 | D | I | T | I | F | T | R | Q | L | A | T | M | M | K | A | G | V | P | L | V | Q | A | F | E | I | V | A | E | G | L | E | N | P | A | M | R | E | V   | V | L | G | I | K | G | E | V | E | G | G | S | T | F | A | S | A | L | R | K | Y | P | Q | H | F | D | N | L | F | C | S | L | V | E | S | G | E | Q | S | G | A   | L   | 149 |
| NTDB | id | 195578 | BG483      | RS25640     | WP | 023101565.1 | D | I | A | L | F | T | R | Q | L | A | T | M | M | G | A | G | V | P | L | L | Q | S | F | D | I | T | G | E | G | F | D | N | P | N | M | R | K | L</ |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |     |     |     |

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[illegible]

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NTDB id 1029 TT RS02230 WP 011228203.1
NTDB id 1169 A1552VC RS11075 WP 000648511.1
NTDB id 1402 DSB67 RS12670 WP 010643257.1
NTDB id 1113 AAA85695.1 219..1451( )
NTDB id 1112 NGFG RS09215 WP 003689811.1
NTDB id 1252 GC085 RS07730 WP 011213805.1
NTDB id 1016 ACIAD RS01680 WP 004920476.1
NTDB id 1059 ABD1 RS01610 WP 000279215.1
NTDB id 195578 BG483 RS25640 WP 023101565.1
NTDB id 1198 PSJM300 03950 AFN76868.1
consensus

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