

[illegible]

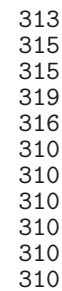
|           |    |       |         |         |    |             |                                                                                 |          |     |
|-----------|----|-------|---------|---------|----|-------------|---------------------------------------------------------------------------------|----------|-----|
| NTDB      | id | 587   | KW2     | RS10850 | WP | 042211510.1 | ESLSFSKNVVTQLALVEVHGNLVGTMQLVELHLKKQLKVKKKLIEVATYPVVLVFLIGIMWGLKNYLLPQLDKGN     | NFAT     | 153 |
| NTDB      | id | 395   | FSA28   | RS09400 | WP | 257638827.1 | SSLGFSDDVVTQLALSEVHGNTQKSLKIESYLNLIILVKKKLVEVITYPITILLIFLVVIMLGLKNYLLPQL        | EKG.NFAT | 155 |
| NTDB      | id | 386   | SMU     | RS09030 | WP | 255262721.1 | SSLGFSDDVVTQLALSEVHGNTQKSLKIESYLNLIILVKKKLVEVITYPITILLIFLVVIMLGLKNYLLPQL        | ERG.NFAT | 155 |
| NTDB      | id | 40526 | SSUST3  | RS00800 | WP | 255195823.1 | ADLRFSADVVTQVALAEVHGNTLSLSHIQSYLENVSKVRKKLIEVATYPITLLGFLFLIMLGLKNYLLPQL         | EEG.NAAT | 159 |
| NTDB      | id | 430   | SGO     | RS09415 | WP | 012130941.1 | ASLGFSADVVTQLSLAEHLGNLSLALLKIEEYLDNLAKVKKKLIEVATYPMMLLGLFLVIMIGLRNYLLPQL        | SSQ.NFAT | 156 |
| NTDB      | id | 271   | KZH43   | RS09260 | WP | 074196785.1 | ESLGCSSAIVTQLSLAEVHGNLHLSLGKIEEYLDNLAKVKKKLIEVATYPLILLGFLLLIMLGLRNYLLPQL        | DSS.NIAT | 150 |
| NTDB      | id | 230   | SPD     | RS09890 | WP | 074196785.1 | ESLGCSSAIVTQLSLAEVHGNLHLSLGKIEEYLDNLAKVKKKLIEVATYPLILLGFLLLIMLGLRNYLLPQL        | DSS.NIAT | 150 |
| NTDB      | id | 196   | SPR     | RS09425 | WP | 074196785.1 | ESLGCSSAIVTQLSLAEVHGNLHLSLGKIEEYLDNLAKVKKKLIEVATYPLILLGFLLLIMLGLRNYLLPQL        | DSS.NIAT | 150 |
| NTDB      | id | 161   | SP      | RS10375 | WP | 074196785.1 | ESLGCSSAIVTQLSLAEVHGNLHLSLGKIEEYLDNLAKVKKKLIEVATYPLILLGFLLLIMLGLRNYLLPQL        | DSS.NIAT | 150 |
| NTDB      | id | 529   | SMSK321 | RS09235 | WP | 080550783.1 | ESLGFSSAIVTQLSLAEVHGNLHLSLGKIEEYLDNLAKVKKKLIEVATYPLILLGFLLLIMLGLRNYLLPQL        | DSS.NIAT | 150 |
| NTDB      | id | 501   | SM12261 | RS00950 | WP | 004238896.1 | ESLGFSSAIVTQLSLAEVHGNLHLSLGKIEEYLDNLAKVKKKLIEVATYPLILLGFLLLIMLGLRNYLLPQL        | DSS.NIAT | 150 |
| consensus |    |       |         |         |    |             | ***!!**!*!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!! | !!**!!   |     |

|      |    |       |        |         |    |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |     |   |     |     |
|------|----|-------|--------|---------|----|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|---|-----|-----|
| NTDB | id | 587   | KW2    | RS10850 | WP | 042211510.1 | L | I | N | H | L | P | L | V | F | S | V | G | A | L | I | V | L | L | T | S | L | S | I | I | I | F | K | H | I | S | A | L | T | N | F | T | F | L | V | K | V | P | L | V   | S | S | F | I | R | L | Y | L | T | A | Y | F | S | R | E | W | G | N | L | I | A | Q | G | V | E | L | R | Q | I | I | E | L | M   | K |     | 233 |
| NTDB | id | 395   | FSA28  | RS09400 | WP | 257638827.1 | R | L | I | S | N | F | P | I | L | F | L | G | C | C | F | I | L | L | V | G | I | F | T | F | F | S | R | K | I | S | R | L | H | L | I | G | F | C | S | H | L | P | F | V   | G | K | Y | L | Q | L | Y | L | T | A | Y | Y | A | R | E | W | G | N | L | I | G | Q | G | V | E | M | A | Q | I | V | R | L | M   | Q |     | 235 |
| NTDB | id | 386   | SMU    | RS09030 | WP | 255262721.1 | R | L | I | S | N | F | P | I | L | F | L | G | C | C | F | I | L | L | V | G | I | F | T | F | F | S | R | K | I | S | R | L | H | L | I | G | F | C | S | H | L | P | F | A   | G | K | Y | L | Q | L | Y | L | T | A | Y | Y | A | R | E | W | G | N | L | I | G | Q | G | V | E | M | A | Q | I | V | R | L | M   | Q |     | 235 |
| NTDB | id | 40526 | SSUST3 | RS00800 | WP | 255195823.1 | M | L | I | N | H | L | P | I | F | L | S | L | C | G | L | S | L | V | A | V | L | A | G | M | V | F | R | K | T | N | K | I | K | A | F | S | R | L | A | A | L | P | F | G   | K | L | I | Q | I | Y | L | T | A | Y | Y | A | R | E | W | G | S | L | I | G | Q | L | D | L | P | Q | I | V | I | G | L | M | Q   |   | 239 |     |
| NTDB | id | 430   | SGO    | RS09415 | WP | 012130941.1 | Q | L | I | G | H | L | P | T | I | F | L | L | T | M | I | L | G | L | T | G | A | I | Y | L | V | F | K | G | Q | K | R | I | P | V | S | F | L | A | R | L | P | F | V | G   | S | F | V | R | I | Y | L | T | A | Y | Y | A | R | E | W | G | N | M | I | G | Q | G | L | S | Q | I | F | Q | I | M | Q |   | 236 |   |     |     |
| NTDB | id | 271   | KZH43  | RS09260 | WP | 074196785.1 | Q | I | I | G | N | L | P | Q | I | F | L | G | M | V | G | L | V | S | V | L | A | L | A | L | T | F | Y | K | R | S | K | M | S | V | F | S | I | L | A | R | L | P | F | I   | G | I | F | V | Q | T | Y | L | T | A | Y | Y | A | R | E | W | G | N | M | I | S | Q | G | M | E | L | T | Q | I | F | Q | M | M   | Q |     | 230 |
| NTDB | id | 230   | SPD    | RS09890 | WP | 074196785.1 | Q | I | I | G | N | L | P | Q | I | F | L | G | M | V | G | L | V | S | V | L | A | L | A | L | T | F | Y | K | R | S | K | M | S | V | F | S | I | L | A | R | L | P | F | I   | G | I | F | V | Q | T | Y | L | T | A | Y | Y | A | R | E | W | G | N | M | I | S | Q | G | M | E | L | T | Q | I | F | Q | M | M   | Q |     | 230 |
| NTDB | id | 196   | SPR    | RS09425 | WP | 074196785.1 | Q | I | I | G | N | L | P | Q | I | F | L | G | M | V | G | L | V | S | V | L | A | L | A | L | T | F | Y | K | R | S | K | M | S | V | F | S | I | L | A | R | L | P | F | I   | G | I | F | V | Q | T | Y | L | T | A | Y | Y | A | R | E | W | G | N | M | I | S | Q | G | M | E | L | T | Q | I | F | Q | M | M   | Q |     | 230 |
| NTDB | id | 161   | SP     | RS10375 | WP | 074196785.1 | Q | I | I | G | N | L | P | Q | I | F | L | G | M | V | G | L | V | S | V | L | A | L | A | L | T | F | Y | K | R | S | K | M | S | V | F | S | I | L | A | R | L | P | F | I</ |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |     |   |     |     |

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NTDB id 271 KZH43 RS09260 WP 074196785.1
NTDB id 230 SPD RS09890 WP 074196785.1
NTDB id 196 SPR RS09425 WP 074196785.1
NTDB id 161 SP RS10375 WP 074196785.1
NTDB id 529 SMSK321 RS09235 WP 080550783.1
NTDB id 501 SM12261 RS00950 WP 004238896.1
consensus

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consensus

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- ☐ non conserved
- ☒ similar
- ☒  $\geq 50\%$  conserved