

|         |   |   |   |   |   |   |   |   |   |    |   |   |   |   |    |   |   |   |   |   |    |   |   |   |   |   |    |   |   |    |
|---------|---|---|---|---|---|---|---|---|---|----|---|---|---|---|----|---|---|---|---|---|----|---|---|---|---|---|----|---|---|----|
| gen_sp  | M | N | K | K | F | K | T | I | M | A  | L | A | I | A | T  | – | L | S | A | A | G  | V | G | – | – | – | V  | A | H | A  |
| nat_sp0 | – | – | – | M | K | K | T | L | I | A  | L | A | I | A | A  | – | – | – | S | A | A  | S | G | – | – | – | M  | A | H | A  |
| nat_sp1 | – | M | K | K | T | I | M | A | S | S  | L | A | V | A | L  | G | V | T | G | Y | A  | A | G | T | G | H | Q  | A | H | A  |
| nat_sp2 | M | N | K | P | T | K | L | F | S | T  | L | A | L | A | A  | G | M | T | A | A | A  | A | G | G | A | G | T  | I | H | A  |
| nat_sp3 | M | N | F | K | K | T | V | V | S | A  | L | S | I | S | A  | – | L | A | L | S | V  | S | G | – | – | – | V  | A | S | A  |
| nat_sp4 | – | – | – | M | K | K | T | L | I | A  | L | A | V | A | A  | – | – | S | A | A | V  | S | G | – | – | – | S  | V | M | A  |
| nat_sp5 | M | N | M | K | K | F | V | K | K | P  | L | A | I | A | V  | – | L | M | L | A | S  | G | G | M | V | N | M  | V | H | A  |
| nat_sp6 | – | M | K | L | K | K | T | I | G | A  | M | A | L | A | T  | – | – | L | F | A | T  | M | G | – | – | – | –  | A | S | A  |
| nat_sp7 | – | M | N | K | K | W | L | N | I | P  | A | L | I | A | L  | – | L | A | A | I | A  | F | G | S | V | A | P  | A | E | A  |
| nat_sp8 | – | M | K | K | T | I | M | A | S | S  | L | A | V | A | L  | G | V | T | G | Y | A  | A | S | T | G | H | E  | A | H | A  |
| nat_sp9 | – | – | – | – | M | K | K | G | K | I  | L | A | L | A | G  | – | V | A | L | L | A  | T | G | – | – | – | V  | L | A | A  |
|         |   |   |   |   | 5 |   |   |   |   | 10 |   |   |   |   | 15 |   |   |   |   |   | 20 |   |   |   |   |   | 25 |   |   | 30 |