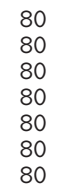


```

NTDB id 331401 EJF26 RS09385 WP 000614515.1
NTDB id 146 SP RS08570 WP 000614538.1
NTDB id 216 SPD RS08205 WP 000614552.1
NTDB id 182 SPR RS07820 WP 000614552.1
NTDB id 257 KZH43 RS07655 WP 220041236.1
NTDB id 384 SMU RS02325 WP 002263039.1
NTDB id 467 HSISS4 RS06915 WP 021143821.1
consensus

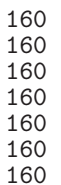
```



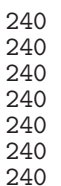
```

NTDB id 331401 EJF26 RS09385 WP 000614515.1
NTDB id 146 SP RS08570 WP 000614538.1
NTDB id 216 SPD RS08205 WP 000614552.1
NTDB id 182 SPR RS07820 WP 000614552.1
NTDB id 257 KZH43 RS07655 WP 220041236.1
NTDB id 384 SMU RS02325 WP 002263039.1
NTDB id 467 HSISS4 RS06915 WP 021143821.1
consensus

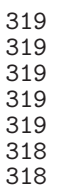
```



NTDB id 331401 EJF26 RS09385 WP 000614515.1
NTDB id 146 SP RS08570 WP 000614538.1
NTDB id 216 SPD RS08205 WP 000614552.1
NTDB id 182 SPR RS07820 WP 000614552.1
NTDB id 257 KZH43 RS07655 WP 220041236.1
NTDB id 384 SMU RS02325 WP 002263039.1
NTDB id 467 HSISS4 RS06915 WP 021143821.1
consensus



NTDB id 331401 EJF26 RS09385 WP 000614515.1
NTDB id 146 SP RS08570 WP 000614538.1
NTDB id 216 SPD RS08205 WP 000614552.1
NTDB id 182 SPR RS07820 WP 000614552.1
NTDB id 257 KZH43 RS07655 WP 220041236.1
NTDB id 384 SMU RS02325 WP 002263039.1
NTDB id 467 HSISS4 RS06915 WP 021143821.1
consensus



logo

NTDB id 331401 EJJ26 RS09385 WP 000614515.1

NTDB id 146 SP RS08570 WP 000614538.1

NTDB id 216 SPD RS08205 WP 000614552.1

NTDB id 182 SPR RS07820 WP 000614552.1

NTDB id 257 KZH43 RS07655 WP 220041236.1

NTDB id 384 SMU RS02325 WP 002263039.1

NTDB id 467 HSISS4 RS06915 WP 021143821.1

consensus



Sequence logo for motif 1. The logo shows the conservation of amino acids across the sequences. The consensus sequence is KNPSSQAVTEETYPQAPKKHRFKMRYLILLASLVLV. The logo is color-coded by amino acid type: basic (blue), acidic (red), polar (green), and non-polar (yellow).

398

398

398

398

398

398

398

logo

NTDB id 331401 EJJ26 RS09385 WP 000614515.1

NTDB id 146 SP RS08570 WP 000614538.1

NTDB id 216 SPD RS08205 WP 000614552.1

NTDB id 182 SPR RS07820 WP 000614552.1

NTDB id 257 KZH43 RS07655 WP 220041236.1

NTDB id 384 SMU RS02325 WP 002263039.1

NTDB id 467 HSISS4 RS06915 WP 021143821.1

consensus



Sequence logo for motif 2. The logo shows the conservation of amino acids across the sequences. The consensus sequence is TEASEKVEEGRIIRTDPGAGTGRKEGKINLVSSGKQSFQISNYVGRKSSDVIAELKEK. The logo is color-coded by amino acid type: basic (blue), acidic (red), polar (green), and non-polar (yellow).

465

477

477

477

477

465

466

logo

NTDB id 331401 EJJ26 RS09385 WP 000614515.1

NTDB id 146 SP RS08570 WP 000614538.1

NTDB id 216 SPD RS08205 WP 000614552.1

NTDB id 182 SPR RS07820 WP 000614552.1

NTDB id 257 KZH43 RS07655 WP 220041236.1

NTDB id 384 SMU RS02325 WP 002263039.1

NTDB id 467 HSISS4 RS06915 WP 021143821.1

consensus



Sequence logo for motif 3. The logo shows the conservation of amino acids across the sequences. The consensus sequence is GTVLKQSLPEGTTYDLSKATQIVLTVAKKATTIQLGNYIGRNSTEVISELKQKKVPENLIK. The logo is color-coded by amino acid type: basic (blue), acidic (red), polar (green), and non-polar (yellow).

485

557

557

557

557

485

486

logo

NTDB id 331401 EJJ26 RS09385 WP 000614515.1

NTDB id 146 SP RS08570 WP 000614538.1

NTDB id 216 SPD RS08205 WP 000614552.1

NTDB id 182 SPR RS07820 WP 000614552.1

NTDB id 257 KZH43 RS07655 WP 220041236.1

NTDB id 384 SMU RS02325 WP 002263039.1

NTDB id 467 HSISS4 RS06915 WP 021143821.1

consensus



Sequence logo for motif 4. The logo shows the conservation of amino acids across the sequences. The consensus sequence is GAGTTYDVSKPTQIVLTVAKKVTSMPSYIGSSLEFTKNNLIQIVGIKEANFEWEVT. The logo is color-coded by amino acid type: basic (blue), acidic (red), polar (green), and non-polar (yellow).

558

630

630

630

630

557

563

logo

```
NTDB id 331401 EJF26 RS09385 WP 000614515.1
NTDB id 146 SP RS08570 WP 000614538.1
NTDB id 216 SPD RS08205 WP 000614552.1
NTDB id 182 SPR RS07820 WP 000614552.1
NTDB id 257 KZH43 RS07655 WP 220041236.1
NTDB id 384 SMU RS02325 WP 002263039.1
NTDB id 467 HSISS4 RS06915 WP 021143821.1
consensus
```

[illegible]

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