

logo

|                |                                |   |    |
|----------------|--------------------------------|---|----|
|                |                                | MSXLSIGDRRLGAALLDQGYLGDNDLQRALERHSEVGGRLADVLDIDSGMVGEKRIARAIEEALGIPLVNLAVQPDPAAAL |    |
| NTDB id 1410   | SGL RS13950 WP 010873519.1     | .....   | 0  |
| NTDB id 1306   | DR RS10060 WP 027479822.1      | .MALSIGDRRLGAILLDQGYLGDNDLQRALERHSEVGGRLADVLDIDSGMVGEKRIARAIEEALGIPLVNLAVQPDPAAAL | 79 |
| NTDB id 1028   | TT RS08215 WP 011173991.1      | MSVLTIGDKRLGAALLDAGLLTDEELQRALERHREVGGSLAEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPVKV  | 80 |
| NTDB id 1110   | NGFG RS09235 WP 003689817.1    | .....   | 0  |
| NTDB id 1168   | A1552VC RS11070 WP 000957200.1 | .....   | 0  |
| NTDB id 1293   | VP RS12240 WP 005479695.1      | .....   | 0  |
| NTDB id 1401   | DSB67 RS12665 WP 010643259.1   | .....   | 0  |
| NTDB id 1058   | ABD1 RS01615 WP 001274986.1    | .....   | 0  |
| NTDB id 1018   | ACIAD RS01685 WP 004920473.1   | .....   | 0  |
| NTDB id 364563 | FE240 RS14145 WP 193001826.1   | .....   | 0  |
| NTDB id 1251   | GCO85 RS07725 WP 011946523.1   | .....   | 0  |
| consensus      |                                |   |    |

logo

|                |                                |  |     |
|----------------|--------------------------------|--|-----|
|                |                                | RSIRPQTALNLQAFPFALE..GDRLRVALVDPLSSFSIETLEDDSGFDIEPYQALREEVMWAIATHYPELGLIIVVPSGA |     |
| NTDB id 1410   | SGL RS13950 WP 010873519.1     | .....  | 0   |
| NTDB id 1306   | DR RS10060 WP 027479822.1      | RSIRPQTALNLQAFPFALE..GDRLRVALVDPLSSFSIETLEDDSGFDIEPYQALREEVMWAIATHYPELGLIIVVPSGA | 157 |
| NTDB id 1028   | TT RS08215 WP 011173991.1      | ALLPAEKAKELKAIPFALDEEAGVVRVAFLNPLDTLSEEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVPPP..P | 158 |
| NTDB id 1110   | NGFG RS09235 WP 003689817.1    | .....  | 0   |
| NTDB id 1168   | A1552VC RS11070 WP 000957200.1 | .....  | 0   |
| NTDB id 1293   | VP RS12240 WP 005479695.1      | .....  | 0   |
| NTDB id 1401   | DSB67 RS12665 WP 010643259.1   | .....  | 0   |
| NTDB id 1058   | ABD1 RS01615 WP 001274986.1    | .....  | 0   |
| NTDB id 1018   | ACIAD RS01685 WP 004920473.1   | .....  | 0   |
| NTDB id 364563 | FE240 RS14145 WP 193001826.1   | .....  | 0   |
| NTDB id 1251   | GCO85 RS07725 WP 011946523.1   | .....  | 0   |
| consensus      |                                |  |     |

logo

|                |                                |   |     |
|----------------|--------------------------------|---|-----|
|                |                                | SDAGRTGGKLGRLITHGYITDAQLQVALDAQQTGEALGATLISQRAITEDQLYEVLAEEQEGTTFLPNPSGFHPGEEVL |     |
| NTDB id 1410   | SGL RS13950 WP 010873519.1     | .....   | 0   |
| NTDB id 1306   | DR RS10060 WP 027479822.1      | SDAGRTGGKLGRLITHGYITDAQLQVALDAQQTGEALGATLISQRAITEDQLYEVLAEEQEGTTFLPNPSGFHPGEEVL | 237 |
| NTDB id 1028   | TT RS08215 WP 011173991.1      | SGEGQKDLKLGELLQKGWISREALEEALVEQEKTGDLLGRILV.RKGLPEEALYRALAEQKGLEFLESTEGIVDPDSAA | 237 |
| NTDB id 1110   | NGFG RS09235 WP 003689817.1    | .....   | 0   |
| NTDB id 1168   | A1552VC RS11070 WP 000957200.1 | .....   | 0   |
| NTDB id 1293   | VP RS12240 WP 005479695.1      | .....   | 0   |
| NTDB id 1401   | DSB67 RS12665 WP 010643259.1   | .....   | 0   |
| NTDB id 1058   | ABD1 RS01615 WP 001274986.1    | .....   | 0   |
| NTDB id 1018   | ACIAD RS01685 WP 004920473.1   | .....   | 0   |
| NTDB id 364563 | FE240 RS14145 WP 193001826.1   | .....   | 0   |
| NTDB id 1251   | GCO85 RS07725 WP 011946523.1   | .....   | 0   |
| consensus      |                                |   |     |

logo

NTDB id 1410 SGL RS13950 WP 010873519.1  
 NTDB id 1306 DR RS10060 WP 027479822.1  
 NTDB id 1028 TT RS08215 WP 011173991.1  
 NTDB id 1110 NGFG RS09235 WP 003689817.1  
 NTDB id 1168 A1552VC RS11070 WP 000957200.1  
 NTDB id 1293 VP RS12240 WP 005479695.1  
 NTDB id 1401 DSB67 RS12665 WP 010643259.1  
 NTDB id 1058 ABD1 RS01615 WP 001274986.1  
 NTDB id 1018 ACIAD RS01685 WP 004920473.1  
 NTDB id 364563 FE240 RS14145 WP 193001826.1  
 NTDB id 1251 GC085 RS07725 WP 011946523.1

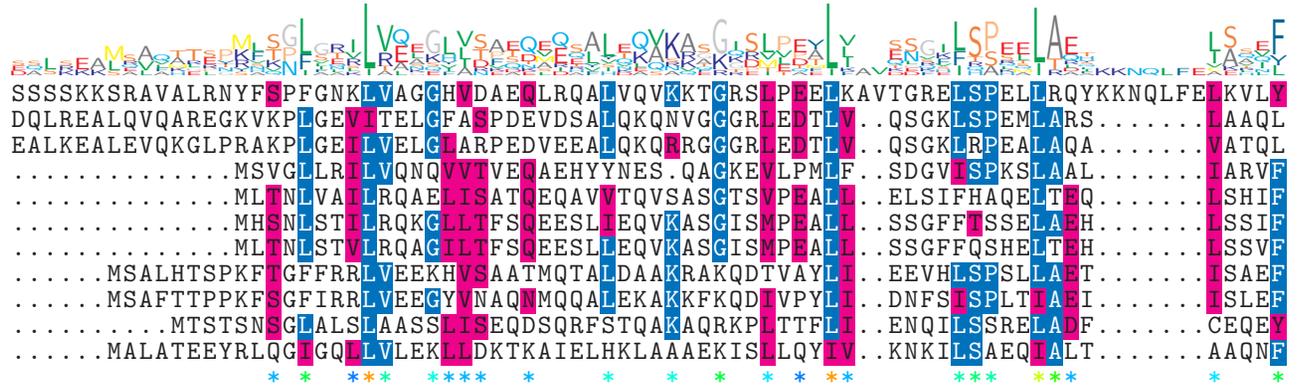


3  
317  
317  
0  
0  
0  
0  
0  
0  
0  
0  
0

consensus

logo

NTDB id 1410 SGL RS13950 WP 010873519.1  
 NTDB id 1306 DR RS10060 WP 027479822.1  
 NTDB id 1028 TT RS08215 WP 011173991.1  
 NTDB id 1110 NGFG RS09235 WP 003689817.1  
 NTDB id 1168 A1552VC RS11070 WP 000957200.1  
 NTDB id 1293 VP RS12240 WP 005479695.1  
 NTDB id 1401 DSB67 RS12665 WP 010643259.1  
 NTDB id 1058 ABD1 RS01615 WP 001274986.1  
 NTDB id 1018 ACIAD RS01685 WP 004920473.1  
 NTDB id 364563 FE240 RS14145 WP 193001826.1  
 NTDB id 1251 GC085 RS07725 WP 011946523.1

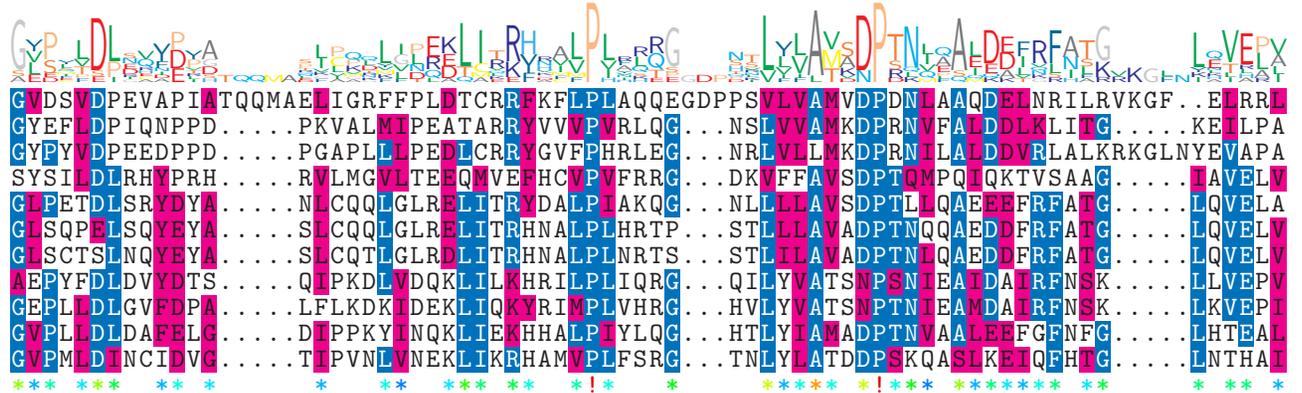


83  
388  
388  
56  
57  
57  
57  
65  
65  
61  
65

consensus

logo

NTDB id 1410 SGL RS13950 WP 010873519.1  
 NTDB id 1306 DR RS10060 WP 027479822.1  
 NTDB id 1028 TT RS08215 WP 011173991.1  
 NTDB id 1110 NGFG RS09235 WP 003689817.1  
 NTDB id 1168 A1552VC RS11070 WP 000957200.1  
 NTDB id 1293 VP RS12240 WP 005479695.1  
 NTDB id 1401 DSB67 RS12665 WP 010643259.1  
 NTDB id 1058 ABD1 RS01615 WP 001274986.1  
 NTDB id 1018 ACIAD RS01685 WP 004920473.1  
 NTDB id 364563 FE240 RS14145 WP 193001826.1  
 NTDB id 1251 GC085 RS07725 WP 011946523.1

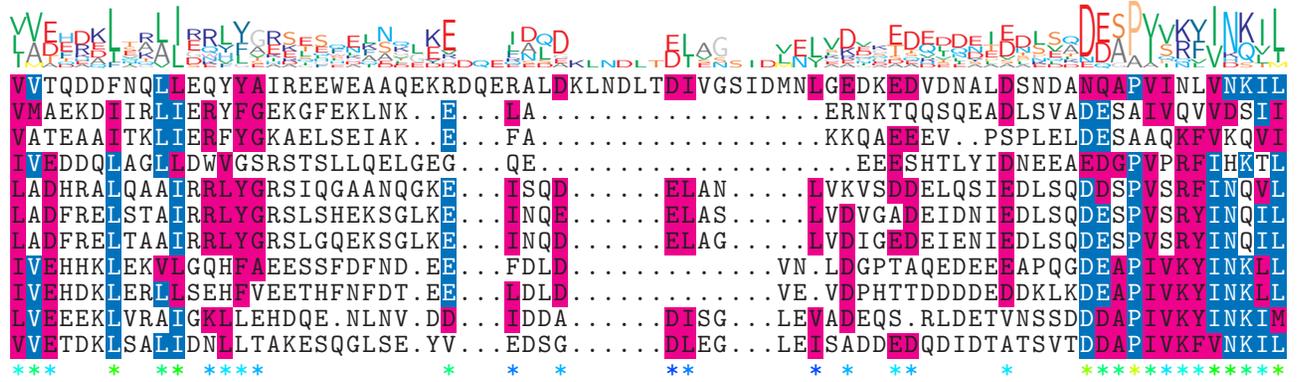


161  
455  
460  
123  
124  
124  
124  
132  
132  
128  
132

consensus

logo

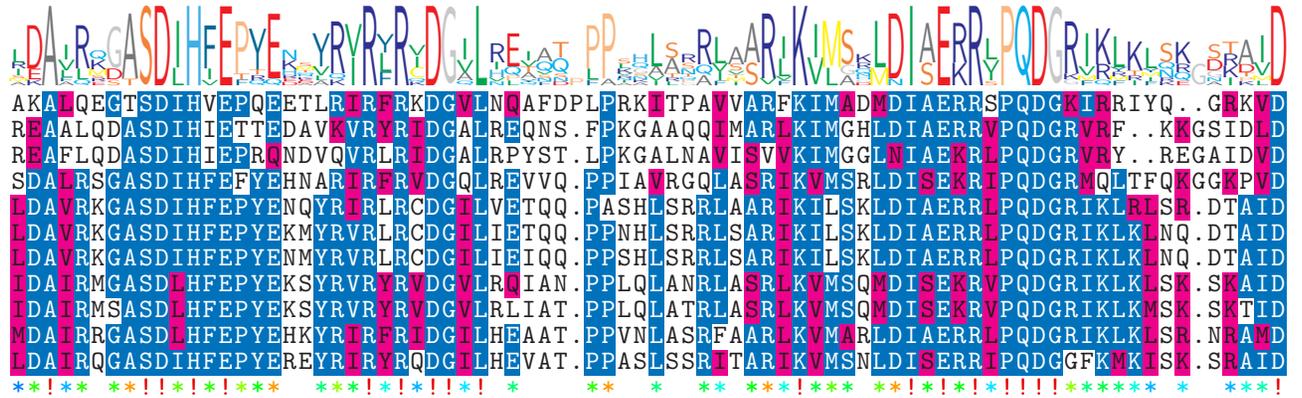
NTDB id 1410 SGL RS13950 WP 010873519.1  
 NTDB id 1306 DR RS10060 WP 027479822.1  
 NTDB id 1028 TT RS08215 WP 011173991.1  
 NTDB id 1110 NGFG RS09235 WP 003689817.1  
 NTDB id 1168 A1552VC RS11070 WP 000957200.1  
 NTDB id 1293 VP RS12240 WP 005479695.1  
 NTDB id 1401 DSB67 RS12665 WP 010643259.1  
 NTDB id 1058 ABD1 RS01615 WP 001274986.1  
 NTDB id 1018 ACIAD RS01685 WP 004920473.1  
 NTDB id 364563 FE240 RS14145 WP 193001826.1  
 NTDB id 1251 GC085 RS07725 WP 011946523.1  
 consensus



241  
512  
515  
180  
190  
190  
190  
194  
194  
193  
199

logo

NTDB id 1410 SGL RS13950 WP 010873519.1  
 NTDB id 1306 DR RS10060 WP 027479822.1  
 NTDB id 1028 TT RS08215 WP 011173991.1  
 NTDB id 1110 NGFG RS09235 WP 003689817.1  
 NTDB id 1168 A1552VC RS11070 WP 000957200.1  
 NTDB id 1293 VP RS12240 WP 005479695.1  
 NTDB id 1401 DSB67 RS12665 WP 010643259.1  
 NTDB id 1058 ABD1 RS01615 WP 001274986.1  
 NTDB id 1018 ACIAD RS01685 WP 004920473.1  
 NTDB id 364563 FE240 RS14145 WP 193001826.1  
 NTDB id 1251 GC085 RS07725 WP 011946523.1  
 consensus



319  
589  
592  
259  
268  
268  
268  
272  
272  
271  
277

logo

NTDB id 1410 SGL RS13950 WP 010873519.1  
 NTDB id 1306 DR RS10060 WP 027479822.1  
 NTDB id 1028 TT RS08215 WP 011173991.1  
 NTDB id 1110 NGFG RS09235 WP 003689817.1  
 NTDB id 1168 A1552VC RS11070 WP 000957200.1  
 NTDB id 1293 VP RS12240 WP 005479695.1  
 NTDB id 1401 DSB67 RS12665 WP 010643259.1  
 NTDB id 1058 ABD1 RS01615 WP 001274986.1  
 NTDB id 1018 ACIAD RS01685 WP 004920473.1  
 NTDB id 364563 FE240 RS14145 WP 193001826.1  
 NTDB id 1251 GC085 RS07725 WP 011946523.1  
 consensus



399  
669  
672  
339  
348  
348  
348  
352  
352  
351  
357



logo

|   |                                     |     |
|---|-------------------------------------|-----|
| NTDB id 1410 SGL RS13950 WP 010873519.1     | EMRAKRKSALTCRTCAAELQQEWLDCPYCMTSRFS | 672 |
| NTDB id 1306 DR RS10060 WP 027479822.1      | .....                               | 887 |
| NTDB id 1028 TT RS08215 WP 011173991.1      | .....                               | 889 |
| NTDB id 1110 NGFG RS09235 WP 003689817.1    | .....                               | 558 |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1 | .....                               | 562 |
| NTDB id 1293 VP RS12240 WP 005479695.1      | .....                               | 561 |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1   | .....                               | 561 |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1    | .....                               | 570 |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1   | .....                               | 570 |
| NTDB id 364563 FE240 RS14145 WP 193001826.1 | .....                               | 568 |
| NTDB id 1251 GC085 RS07725 WP 011946523.1   | .....                               | 574 |
| consensus                                   |                                     |     |

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