

Thursday, January 20, 2011 2:41 PM

BpTdp-v5

Sequence alignment showing multiple homologous DNA strands aligned by a central vertical line. Each strand consists of a sequence of letters (A, T, G, C) above the line and a corresponding sequence of amino acids below it. Green horizontal bars indicate regions where a stop codon has been removed.

The alignment shows the following features:

- Strand 1:** ATGAACCATCCAAGTGTCTTCATCCTGGTCCCTGCCGCATTCGCCACAGCAGCGGTTACTGTTGATGC
- Strand 2:** BpTdp (STOP codon removed)
- Strand 3:** M N H P S V F H P G P A A I S P Q Q R L L L M
- Strand 4:** ACGAGGGCGAGTGGGAAGACTTATCGAGGAATGCGTCCGTCAACTCAGAAGGAGGGAACTATGTTGA
- Strand 5:** BpTdp (STOP codon removed)
- Strand 6:** H E G E W E D F I E E C V R Q L Q K E G N Y V E
- Strand 7:** AGTGGTGGCTCTCGGGGGAGTGGAGACAAAGGTCGTGACGTATGTGGGTACTCGAAGGAATATCCGGCA
- Strand 8:** BpTdp (STOP codon removed)
- Strand 9:** V V A L G G S G D K G R D V C G Y S K E Y P A
- Strand 10:** CGGGGCACCTGGGACCTCTATCAGGCAAAACATTACGATAGTCCGTTGACGCCAGCGAGTTTCCAG
- Strand 11:** BpTdp (STOP codon removed)
- Strand 12:** A G T W D L Y Q A K H Y D S P L T P S E F F P
- Strand 13:** AGCTTGCAAAGTTCGTGACGTGCGTCTGGCGTGAAGACTATA CGGCCCTGCGAAGTATTCATATGTGC
- Strand 14:** BpTdp (STOP codon removed)
- Strand 15:** E L A K F V T C V W R E D Y T R P A K Y F I C A
- Strand 16:** AAGCAGGGACGTTGGCACACGCTTCGACCTGCTCAAGAATCCGGTACGACTGAAGGAACGACTTCTC
- Strand 17:** BpTdp (STOP codon removed)
- Strand 18:** S R D V G T T L F D L L K N P V R L K E R L L
- Strand 19:** GACGACTGGCGAAAGAAAGGGGGCAAGTTGGGAAGTTCAAACAACCCCTTGACGCCGACCTGAAAAGT
- Strand 20:** BpTdp (STOP codon removed)
- Strand 21:** D D W R K K G G K F G K F K Q P L D A D L E K
- Strand 22:** TCATTGAGGTATTCCCGTTGACGTTGTGAAGCGTCTGCCACCCATGGAACTGCTGTCAATCCACGAGAG
- Strand 23:** BpTdp (STOP codon removed)
- Strand 24:** F I E V F P F D V V K R L P P M E L L S I H E R
- Strand 25:** AGATACAGCTTCGTATTGGCGCGATTCGGAGTCCTCGCTCCGCGAGAAAATGACCCAGAAGTGCCTCCA
- Strand 26:** BpTdp (STOP codon removed)
- Strand 27:** D T A S Y W A R F G V L A P R E N D P E V P P
- Strand 28:** AAGCCGGTTCTAGCGAGTCGACGTATGTGACCGCATTGCTGCCGGTATATGCCGAGCATGCACAGGTGA
- Strand 29:** BpTdp (STOP codon removed)
- Strand 30:** K P V S S E S T Y V T A L L R V Y A E H A Q V

BpTdp-V5

5' AGATTGATGACGTGCCCGATATTCCGCCCGCAGGGGCGCACTTCAAGGCGCAGAGGCAGGGCTTTTA
0 +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
o **BpTdp (STOP codon removed)**
1 K I D D V P D I P P A H G A H F K A Q R R L F Y
o
5' TTCAGCGGAGGGATTGCACCGCTTAGCCGTACAAGCTGCCTGGGCATTGAAGCGCTCCTGGACGAG
0 +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
o **BpTdp (STOP codon removed)**
1 S A E G L H R F S R D K L P G A F E A L L D E
o
5' GTGGAAAACGGGATTGGGGCAGAGTTGACCTTCGCACGAAAGTGGATTCGTGCCTGCACTCCGTT
0 +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
o **BpTdp (STOP codon removed)**
1 V E N G I G A E L T F P H E S G F V R L H S V
o
5' TTAAAAACAGCAAACGTGTTGCAGATAATGAATAACCCGTTACGGCGCGCCTCAGGTCCGGCACCTGCA
0 +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
o **BpTdp (STOP codon removed)**
1 L K T A N V L Q I M N N P L R A R L R S G D L Q
o
5' GGGCAGTTGTCATCATCTCGCAAATCAAGGTGGGCCAATGGGTCGAAAGCGATGAAGCAGACGGCGAA
0 +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
o **BpTdp (STOP codon removed)**
1 G S C H H L A N Q G R A Q W V E S D E A D G E
o
5' AGTGTAAAGGGTGGCGCGCCGACCCAGCTTCTTGATCAAAGTGGTTGATCTAGAGGGCCCGGGTCG
0 +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
o **Bp...d** 
1 S V K G G R A D P A F L Y K V V D L E G P R F
o
5' AAGGTAAGCCTATCCCTAACCTCTCCTCGGTCTCGATTCTACGGGTACCGGTTAG
0 +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
o **V5 epitope tag** 
1 E G K P I P N P L L G L D S T R T G .