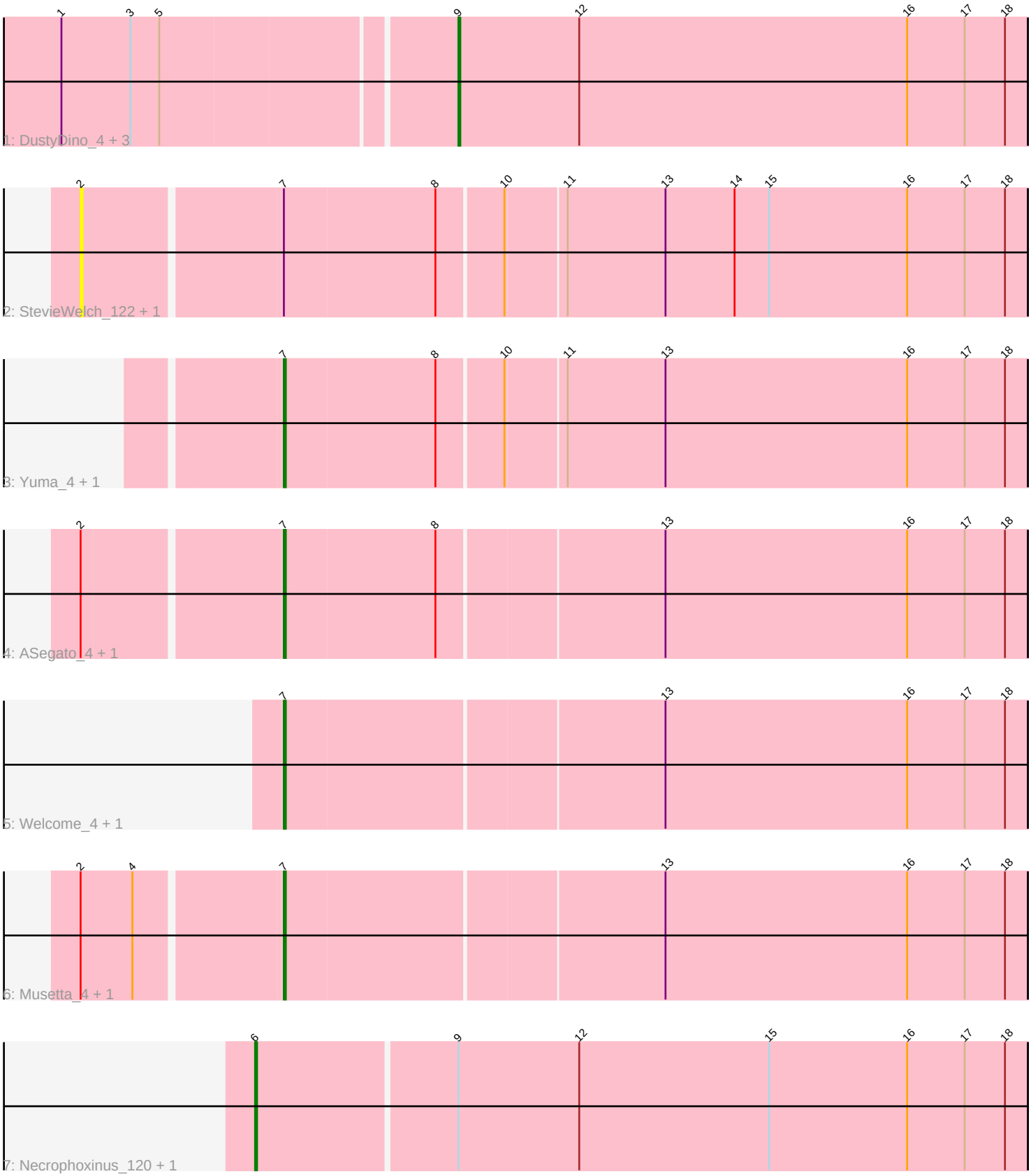
Pham 86946


1
3
5
9
12
16
17
18
1: DustyDino_4 + 3
2
7
8
10
11
13
14
15
16
17
18
2: StevieWelch_122 + 1
7
8
10
11
13
16
17
18
3: Yuma_4 + 1
2
7
8
13
16
17
18
4: ASegato_4 + 1
7
13
16
17
18
5: Welcome_4 + 1
2
4
7
13
16
17
18
6: Musetta_4 + 1
6
9
12
15
16
17
18
7: Necrophoxinus_120 + 1

Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 86946 Report

This analysis was run 04/28/24 on database version 559.

Pham number 86946 has 16 members, 4 are drafts.

Phages represented in each track:
• Track 1 : DustyDino_4, RunningBrook_122, RunningBrook_4, DustyDino_122
• Track 2 : StevieWelch_122, StevieWelch_4
• Track 3 : Yuma_4, Yuma_117
• Track 4 : ASegato_4, ASegato_118
• Track 5 : Welcome_4, Welcome_121
• Track 6 : Musetta_4, Musetta_117
• Track 7 : Necrophoxinus_120, Necrophoxinus_4

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 7, it was called in 8 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ASegato_118, ASegato_4, Musetta_117, Musetta_4, Welcome_121, Welcome_4, Yuma_117, Yuma_4,

Genes that have the "Most Annotated" start but do not call it:
• StevieWelch_122, StevieWelch_4,

Genes that do not have the "Most Annotated" start:
• DustyDino_122, DustyDino_4, Necrophoxinus_120, Necrophoxinus_4, RunningBrook_122, RunningBrook_4,

Summary by start number:

Start 2:
• Found in 6 of 16 (37.5%) of genes in pham
• No Manual Annotations of this start.
• Called 33.3% of time when present
• Phage (with cluster) where this start called: StevieWelch_122 (ED2), StevieWelch_4 (ED2),

Start 6:

• Found in 2 of 16 (12.5%) of genes in pham
• Manual Annotations of this start: 2 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Necrophoxinus_120 (ED2), Necrophoxinus_4 (ED2),

Start 7:
• Found in 10 of 16 (62.5%) of genes in pham
• Manual Annotations of this start: 8 of 12
• Called 80.0% of time when present
• Phage (with cluster) where this start called: ASegato_118 (ED2), ASegato_4 (ED2), Musetta_117 (ED2), Musetta_4 (ED2), Welcome_121 (ED2), Welcome_4 (ED2), Yuma_117 (ED2), Yuma_4 (ED2),

Start 9:
• Found in 6 of 16 (37.5%) of genes in pham
• Manual Annotations of this start: 2 of 12
• Called 66.7% of time when present
• Phage (with cluster) where this start called: DustyDino_122 (ED2), DustyDino_4 (ED2), RunningBrook_122 (ED2), RunningBrook_4 (ED2),

Summary by clusters:

There is one cluster represented in this pham: ED2

Info for manual annotations of cluster ED2:
•Start number 6 was manually annotated 2 times for cluster ED2.
•Start number 7 was manually annotated 8 times for cluster ED2.
•Start number 9 was manually annotated 2 times for cluster ED2.

Gene Information:

Gene: ASegato_4 Start: 1195, Stop: 815, Start Num: 7
Candidate Starts for ASegato_4:
(2, 1294), (Start: 7 @1195 has 8 MA's), (8, 1117), (13, 1003), (16, 877), (17, 847), (18, 826),

Gene: ASegato_118 Start: 60644, Stop: 60264, Start Num: 7
Candidate Starts for ASegato_118:
(2, 60743), (Start: 7 @60644 has 8 MA's), (8, 60566), (13, 60452), (16, 60326), (17, 60296), (18, 60275),

Gene: DustyDino_4 Start: 1114, Stop: 818, Start Num: 9
Candidate Starts for DustyDino_4:
(1, 1312), (3, 1276), (5, 1261), (Start: 9 @1114 has 2 MA's), (12, 1051), (16, 880), (17, 850), (18, 829),

Gene: DustyDino_122 Start: 61204, Stop: 60908, Start Num: 9
Candidate Starts for DustyDino_122:
(1, 61402), (3, 61366), (5, 61351), (Start: 9 @61204 has 2 MA's), (12, 61141), (16, 60970), (17, 60940), (18, 60919),

Gene: Musetta_4 Start: 1196, Stop: 816, Start Num: 7

Candidate Starts for Musetta_4:
(2, 1295), (4, 1268), (Start: 7 @1196 has 8 MA's), (13, 1004), (16, 878), (17, 848), (18, 827),

Gene: Musetta_117 Start: 60991, Stop: 60611, Start Num: 7
Candidate Starts for Musetta_117:
(2, 61090), (4, 61063), (Start: 7 @60991 has 8 MA's), (13, 60799), (16, 60673), (17, 60643), (18, 60622),

Gene: Necrophoxinus_120 Start: 61362, Stop: 60964, Start Num: 6
Candidate Starts for Necrophoxinus_120:
(Start: 6 @61362 has 2 MA's), (Start: 9 @61260 has 2 MA's), (12, 61197), (15, 61098), (16, 61026), (17, 60996), (18, 60975),

Gene: Necrophoxinus_4 Start: 1119, Stop: 721, Start Num: 6
Candidate Starts for Necrophoxinus_4:
(Start: 6 @1119 has 2 MA's), (Start: 9 @1017 has 2 MA's), (12, 954), (15, 855), (16, 783), (17, 753), (18, 732),

Gene: RunningBrook_122 Start: 61204, Stop: 60908, Start Num: 9
Candidate Starts for RunningBrook_122:
(1, 61402), (3, 61366), (5, 61351), (Start: 9 @61204 has 2 MA's), (12, 61141), (16, 60970), (17, 60940), (18, 60919),

Gene: RunningBrook_4 Start: 1114, Stop: 818, Start Num: 9
Candidate Starts for RunningBrook_4:
(1, 1312), (3, 1276), (5, 1261), (Start: 9 @1114 has 2 MA's), (12, 1051), (16, 880), (17, 850), (18, 829),

Gene: StevieWelch_122 Start: 61438, Stop: 60959, Start Num: 2
Candidate Starts for StevieWelch_122:
(2, 61438), (Start: 7 @61339 has 8 MA's), (8, 61261), (10, 61228), (11, 61198), (13, 61147), (14, 61111), (15, 61093), (16, 61021), (17, 60991), (18, 60970),

Gene: StevieWelch_4 Start: 1192, Stop: 713, Start Num: 2
Candidate Starts for StevieWelch_4:
(2, 1192), (Start: 7 @1093 has 8 MA's), (8, 1015), (10, 982), (11, 952), (13, 901), (14, 865), (15, 847), (16, 775), (17, 745), (18, 724),

Gene: Welcome_4 Start: 1196, Stop: 816, Start Num: 7
Candidate Starts for Welcome_4:
(Start: 7 @1196 has 8 MA's), (13, 1004), (16, 878), (17, 848), (18, 827),

Gene: Welcome_121 Start: 61340, Stop: 60960, Start Num: 7
Candidate Starts for Welcome_121:
(Start: 7 @61340 has 8 MA's), (13, 61148), (16, 61022), (17, 60992), (18, 60971),

Gene: Yuma_4 Start: 1104, Stop: 724, Start Num: 7
Candidate Starts for Yuma_4:
(Start: 7 @1104 has 8 MA's), (8, 1026), (10, 993), (11, 963), (13, 912), (16, 786), (17, 756), (18, 735),

Gene: Yuma_117 Start: 60155, Stop: 59775, Start Num: 7
Candidate Starts for Yuma_117:
(Start: 7 @60155 has 8 MA's), (8, 60077), (10, 60044), (11, 60014), (13, 59963), (16, 59837), (17, 59807), (18, 59786),