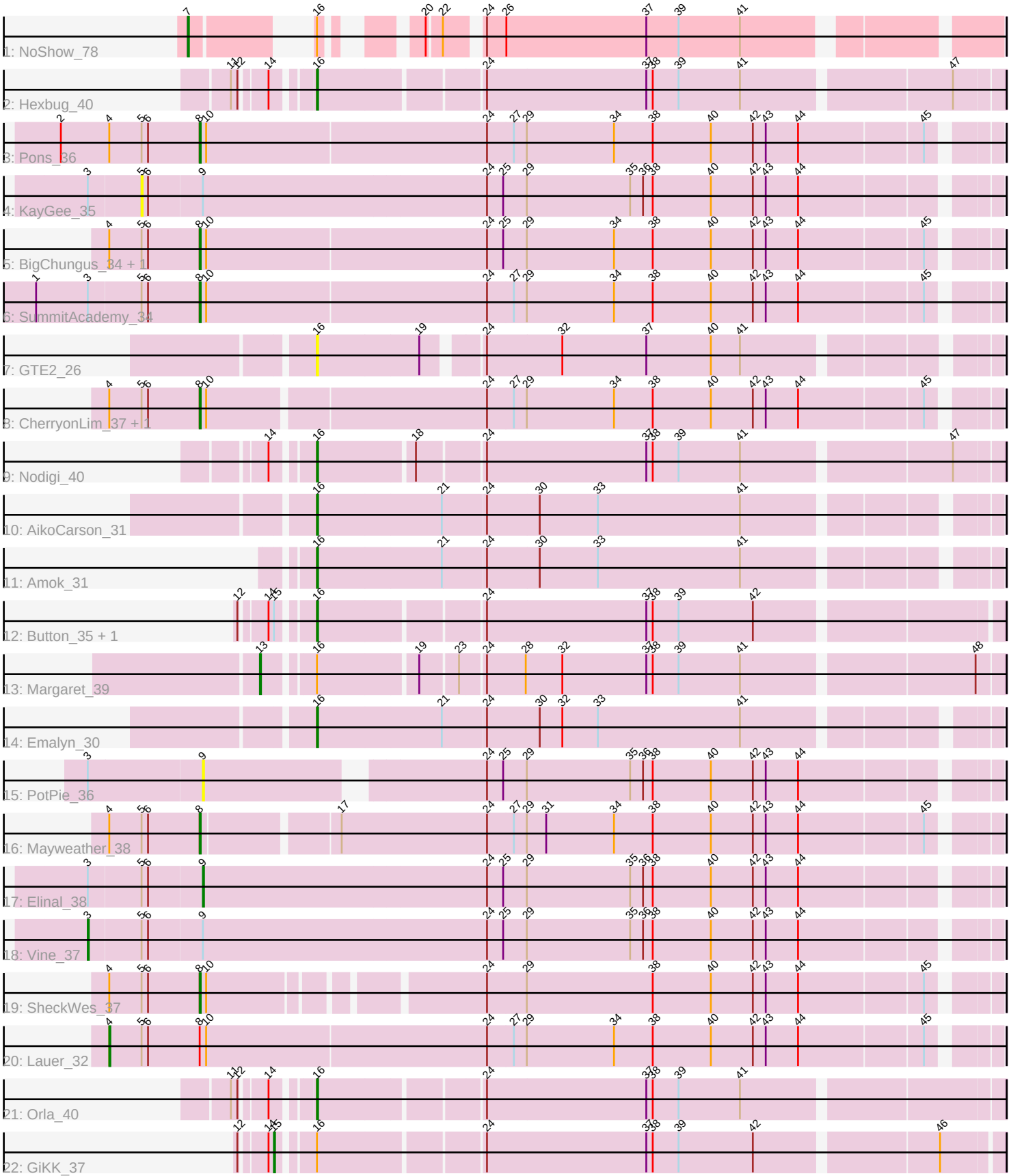
Pham 163886


1: NoShow_78
2: Hexbug_40
3: Pons_36
4: KayGee_35
5: BigChungus_34 + 1
6: SummitAcademy_34
7: GTE2_26
8: CherryonLim_37 + 1
9: Nodigi_40
10: AikoCarson_31
11: Amok_31
12: Button_35 + 1
13: Margaret_39
14: Emalyn_30
15: PotPie_36
16: Mayweather_38
17: Elinal_38
18: Vine_37
19: SheckWes_37
20: Lauer_32
21: Orla_40
22: GiKK_37

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 163886 Report

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

Pham number 163886 has 25 members, 4 are drafts.

Phages represented in each track:
- Track 1 : NoShow_78
- Track 2 : Hexbug_40
- Track 3 : Pons_36
- Track 4 : KayGee_35
- Track 5 : BigChungus_34, Feastonyeet_34
- Track 6 : SummitAcademy_34
- Track 7 : GTE2_26
- Track 8 : CherryonLim_37, MAnor_36
- Track 9 : Nodigi_40
- Track 10 : AikoCarson_31
- Track 11 : Amok_31
- Track 12 : Button_35, Jamzy_37
- Track 13 : Margaret_39
- Track 14 : Emalyn_30
- Track 15 : PotPie_36
- Track 16 : Mayweather_38
- Track 17 : Elinal_38
- Track 18 : Vine_37
- Track 19 : SheckWes_37
- Track 20 : Lauer_32
- Track 21 : Orla_40
- Track 22 : GiKK_37

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

The start number called the most often in the published annotations is 16, it was called in 8 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
- AikoCarson_31, Amok_31, Button_35, Emalyn_30, GTE2_26, Hexbug_40, Jamzy_37, Nodigi_40, Orla_40,

Genes that have the "Most Annotated" start but do not call it:
- GiKK_37, Margaret_39, NoShow_78,

Genes that do not have the "Most Annotated" start:
• BigChungus_34, CherryonLim_37, Elinal_38, Feastonyeet_34, KayGee_35, Lauer_32, MAnor_36, Mayweather_38, Pons_36, PotPie_36, SheckWes_37, SummitAcademy_34, Vine_37,

Summary by start number:

Start 3:
• Found in 5 of 25 (20.0%) of genes in pham
• Manual Annotations of this start: 1 of 21
• Called 20.0% of time when present
• Phage (with cluster) where this start called: Vine_37 (CT),

Start 4:
• Found in 8 of 25 (32.0%) of genes in pham
• Manual Annotations of this start: 1 of 21
• Called 12.5% of time when present
• Phage (with cluster) where this start called: Lauer_32 (CT),

Start 5:
• Found in 12 of 25 (48.0%) of genes in pham
• No Manual Annotations of this start.
• Called 8.3% of time when present
• Phage (with cluster) where this start called: KayGee_35 (CT),

Start 7:
• Found in 1 of 25 (4.0%) of genes in pham
• Manual Annotations of this start: 1 of 21
• Called 100.0% of time when present
• Phage (with cluster) where this start called: NoShow_78 (AB),

Start 8:
• Found in 9 of 25 (36.0%) of genes in pham
• Manual Annotations of this start: 7 of 21
• Called 88.9% of time when present
• Phage (with cluster) where this start called: BigChungus_34 (CT), CherryonLim_37 (CT), Feastonyeet_34 (CT), MAnor_36 (CT), Mayweather_38 (CT), Pons_36 (CT), SheckWes_37 (CT), SummitAcademy_34 (CT),

Start 9:
• Found in 4 of 25 (16.0%) of genes in pham
• Manual Annotations of this start: 1 of 21
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Elinal_38 (CT), PotPie_36 (CT),

Start 13:
• Found in 1 of 25 (4.0%) of genes in pham
• Manual Annotations of this start: 1 of 21
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Margaret_39 (CT),

Start 15:

• Found in 3 of 25 (12.0%) of genes in pham
• Manual Annotations of this start: 1 of 21
• Called 33.3% of time when present
• Phage (with cluster) where this start called: GiKK_37 (CT),

Start 16:
• Found in 12 of 25 (48.0%) of genes in pham
• Manual Annotations of this start: 8 of 21
• Called 75.0% of time when present
• Phage (with cluster) where this start called: AikoCarson_31 (CT), Amok_31 (CT), Button_35 (CT), Emalyn_30 (CT), GTE2_26 (CT), Hexbug_40 (CT), Jamzy_37 (CT), Nodigi_40 (CT), Orla_40 (CT),

Summary by clusters:

There are 2 clusters represented in this pham: AB, CT,

Info for manual annotations of cluster AB:
•Start number 7 was manually annotated 1 time for cluster AB.

Info for manual annotations of cluster CT:
•Start number 3 was manually annotated 1 time for cluster CT.
•Start number 4 was manually annotated 1 time for cluster CT.
•Start number 8 was manually annotated 7 times for cluster CT.
•Start number 9 was manually annotated 1 time for cluster CT.
•Start number 13 was manually annotated 1 time for cluster CT.
•Start number 15 was manually annotated 1 time for cluster CT.
•Start number 16 was manually annotated 8 times for cluster CT.

Gene Information:

Gene: AikoCarson_31 Start: 24720, Stop: 24127, Start Num: 16
Candidate Starts for AikoCarson_31:
(Start: 16 @24720 has 8 MA's), (21, 24606), (24, 24567), (30, 24519), (33, 24465), (41, 24333),

Gene: Amok_31 Start: 24679, Stop: 24086, Start Num: 16
Candidate Starts for Amok_31:
(Start: 16 @24679 has 8 MA's), (21, 24565), (24, 24526), (30, 24478), (33, 24424), (41, 24292),

Gene: BigChungus_34 Start: 27021, Stop: 26305, Start Num: 8
Candidate Starts for BigChungus_34:
(Start: 4 @27105 has 1 MA's), (5, 27075), (6, 27069), (Start: 8 @27021 has 7 MA's), (10, 27015), (24, 26757), (25, 26742), (29, 26721), (34, 26640), (38, 26604), (40, 26550), (42, 26511), (43, 26499), (44, 26469), (45, 26358),

Gene: Button_35 Start: 26057, Stop: 25458, Start Num: 16
Candidate Starts for Button_35:
(12, 26108), (14, 26087), (Start: 15 @26084 has 1 MA's), (Start: 16 @26057 has 8 MA's), (24, 25916), (37, 25769), (38, 25763), (39, 25739), (42, 25670),

Gene: CherryonLim_37 Start: 28152, Stop: 27445, Start Num: 8

Candidate Starts for CherryonLim_37:
(Start: 4 @28236 has 1 MA's), (5, 28206), (6, 28200), (Start: 8 @28152 has 7 MA's), (10, 28146), (24, 27897), (27, 27873), (29, 27861), (34, 27780), (38, 27744), (40, 27690), (42, 27651), (43, 27639), (44, 27609), (45, 27498),

Gene: Elinal_38 Start: 27399, Stop: 26686, Start Num: 9
Candidate Starts for Elinal_38:
(Start: 3 @27501 has 1 MA's), (5, 27453), (6, 27447), (Start: 9 @27399 has 1 MA's), (24, 27138), (25, 27123), (29, 27102), (35, 27006), (36, 26994), (38, 26985), (40, 26931), (42, 26892), (43, 26880), (44, 26850),

Gene: Emalyn_30 Start: 23911, Stop: 23318, Start Num: 16
Candidate Starts for Emalyn_30:
(Start: 16 @23911 has 8 MA's), (21, 23797), (24, 23758), (30, 23710), (32, 23689), (33, 23656), (41, 23524),

Gene: Feastonyeet_34 Start: 27021, Stop: 26305, Start Num: 8
Candidate Starts for Feastonyeet_34:
(Start: 4 @27105 has 1 MA's), (5, 27075), (6, 27069), (Start: 8 @27021 has 7 MA's), (10, 27015), (24, 26757), (25, 26742), (29, 26721), (34, 26640), (38, 26604), (40, 26550), (42, 26511), (43, 26499), (44, 26469), (45, 26358),

Gene: GTE2_26 Start: 24090, Stop: 23512, Start Num: 16
Candidate Starts for GTE2_26:
(Start: 16 @24090 has 8 MA's), (19, 23997), (24, 23952), (32, 23883), (37, 23805), (40, 23745), (41, 23718),

Gene: GiKK_37 Start: 26414, Stop: 25788, Start Num: 15
Candidate Starts for GiKK_37:
(12, 26438), (14, 26417), (Start: 15 @26414 has 1 MA's), (Start: 16 @26387 has 8 MA's), (24, 26246), (37, 26099), (38, 26093), (39, 26069), (42, 26000), (46, 25841),

Gene: Hexbug_40 Start: 28044, Stop: 27442, Start Num: 16
Candidate Starts for Hexbug_40:
(11, 28101), (12, 28095), (14, 28074), (Start: 16 @28044 has 8 MA's), (24, 27903), (37, 27756), (38, 27750), (39, 27726), (41, 27669), (47, 27486),

Gene: Jamzy_37 Start: 26370, Stop: 25771, Start Num: 16
Candidate Starts for Jamzy_37:
(12, 26421), (14, 26400), (Start: 15 @26397 has 1 MA's), (Start: 16 @26370 has 8 MA's), (24, 26229), (37, 26082), (38, 26076), (39, 26052), (42, 25983),

Gene: KayGee_35 Start: 27453, Stop: 26686, Start Num: 5
Candidate Starts for KayGee_35:
(Start: 3 @27501 has 1 MA's), (5, 27453), (6, 27447), (Start: 9 @27399 has 1 MA's), (24, 27138), (25, 27123), (29, 27102), (35, 27006), (36, 26994), (38, 26985), (40, 26931), (42, 26892), (43, 26880), (44, 26850),

Gene: Lauer_32 Start: 28305, Stop: 27505, Start Num: 4
Candidate Starts for Lauer_32:
(Start: 4 @28305 has 1 MA's), (5, 28275), (6, 28269), (Start: 8 @28221 has 7 MA's), (10, 28215), (24, 27957), (27, 27933), (29, 27921), (34, 27840), (38, 27804), (40, 27750), (42, 27711), (43, 27699), (44, 27669), (45, 27558),

Gene: MAnor_36 Start: 27792, Stop: 27085, Start Num: 8
Candidate Starts for MAnor_36:
(Start: 4 @27876 has 1 MA's), (5, 27846), (6, 27840), (Start: 8 @27792 has 7 MA's), (10, 27786), (24, 27537), (27, 27513), (29, 27501), (34, 27420), (38, 27384), (40, 27330), (42, 27291), (43, 27279), (44, 27249), (45, 27138),

Gene: Margaret_39 Start: 27083, Stop: 26442, Start Num: 13
Candidate Starts for Margaret_39:
(Start: 13 @27083 has 1 MA's), (Start: 16 @27044 has 8 MA's), (19, 26957), (23, 26924), (24, 26903), (28, 26867), (32, 26834), (37, 26756), (38, 26750), (39, 26726), (41, 26669), (48, 26465),

Gene: Mayweather_38 Start: 28017, Stop: 27313, Start Num: 8
Candidate Starts for Mayweather_38:
(Start: 4 @28101 has 1 MA's), (5, 28071), (6, 28065), (Start: 8 @28017 has 7 MA's), (17, 27900), (24, 27765), (27, 27741), (29, 27729), (31, 27711), (34, 27648), (38, 27612), (40, 27558), (42, 27519), (43, 27507), (44, 27477), (45, 27366),

Gene: NoShow_78 Start: 51191, Stop: 51799, Start Num: 7
Candidate Starts for NoShow_78:
(Start: 7 @51191 has 1 MA's), (Start: 16 @51266 has 8 MA's), (20, 51320), (22, 51332), (24, 51359), (26, 51377), (37, 51506), (39, 51536), (41, 51593),

Gene: Nodigi_40 Start: 28027, Stop: 27425, Start Num: 16
Candidate Starts for Nodigi_40:
(14, 28057), (Start: 16 @28027 has 8 MA's), (18, 27943), (24, 27886), (37, 27739), (38, 27733), (39, 27709), (41, 27652), (47, 27469),

Gene: Orla_40 Start: 28015, Stop: 27413, Start Num: 16
Candidate Starts for Orla_40:
(11, 28072), (12, 28066), (14, 28045), (Start: 16 @28015 has 8 MA's), (24, 27874), (37, 27727), (38, 27721), (39, 27697), (41, 27640),

Gene: Pons_36 Start: 27367, Stop: 26651, Start Num: 8
Candidate Starts for Pons_36:
(2, 27496), (Start: 4 @27451 has 1 MA's), (5, 27421), (6, 27415), (Start: 8 @27367 has 7 MA's), (10, 27361), (24, 27103), (27, 27079), (29, 27067), (34, 26986), (38, 26950), (40, 26896), (42, 26857), (43, 26845), (44, 26815), (45, 26704),

Gene: PotPie_36 Start: 28313, Stop: 27627, Start Num: 9
Candidate Starts for PotPie_36:
(Start: 3 @28415 has 1 MA's), (Start: 9 @28313 has 1 MA's), (24, 28079), (25, 28064), (29, 28043), (35, 27947), (36, 27935), (38, 27926), (40, 27872), (42, 27833), (43, 27821), (44, 27791),

Gene: SheckWes_37 Start: 26888, Stop: 26202, Start Num: 8
Candidate Starts for SheckWes_37:
(Start: 4 @26972 has 1 MA's), (5, 26942), (6, 26936), (Start: 8 @26888 has 7 MA's), (10, 26882), (24, 26654), (29, 26618), (38, 26501), (40, 26447), (42, 26408), (43, 26396), (44, 26366), (45, 26255),

Gene: SummitAcademy_34 Start: 26942, Stop: 26226, Start Num: 8
Candidate Starts for SummitAcademy_34:
(1, 27092), (Start: 3 @27044 has 1 MA's), (5, 26996), (6, 26990), (Start: 8 @26942 has 7 MA's), (10, 26936), (24, 26678), (27, 26654), (29, 26642), (34, 26561), (38, 26525), (40, 26471), (42, 26432), (43,

26420), (44, 26390), (45, 26279),

Gene: Vine_37 Start: 27784, Stop: 26969, Start Num: 3
Candidate Starts for Vine_37:
(Start: 3 @27784 has 1 MA's), (5, 27736), (6, 27730), (Start: 9 @27682 has 1 MA's), (24, 27421), (25, 27406), (29, 27385), (35, 27289), (36, 27277), (38, 27268), (40, 27214), (42, 27175), (43, 27163), (44, 27133),