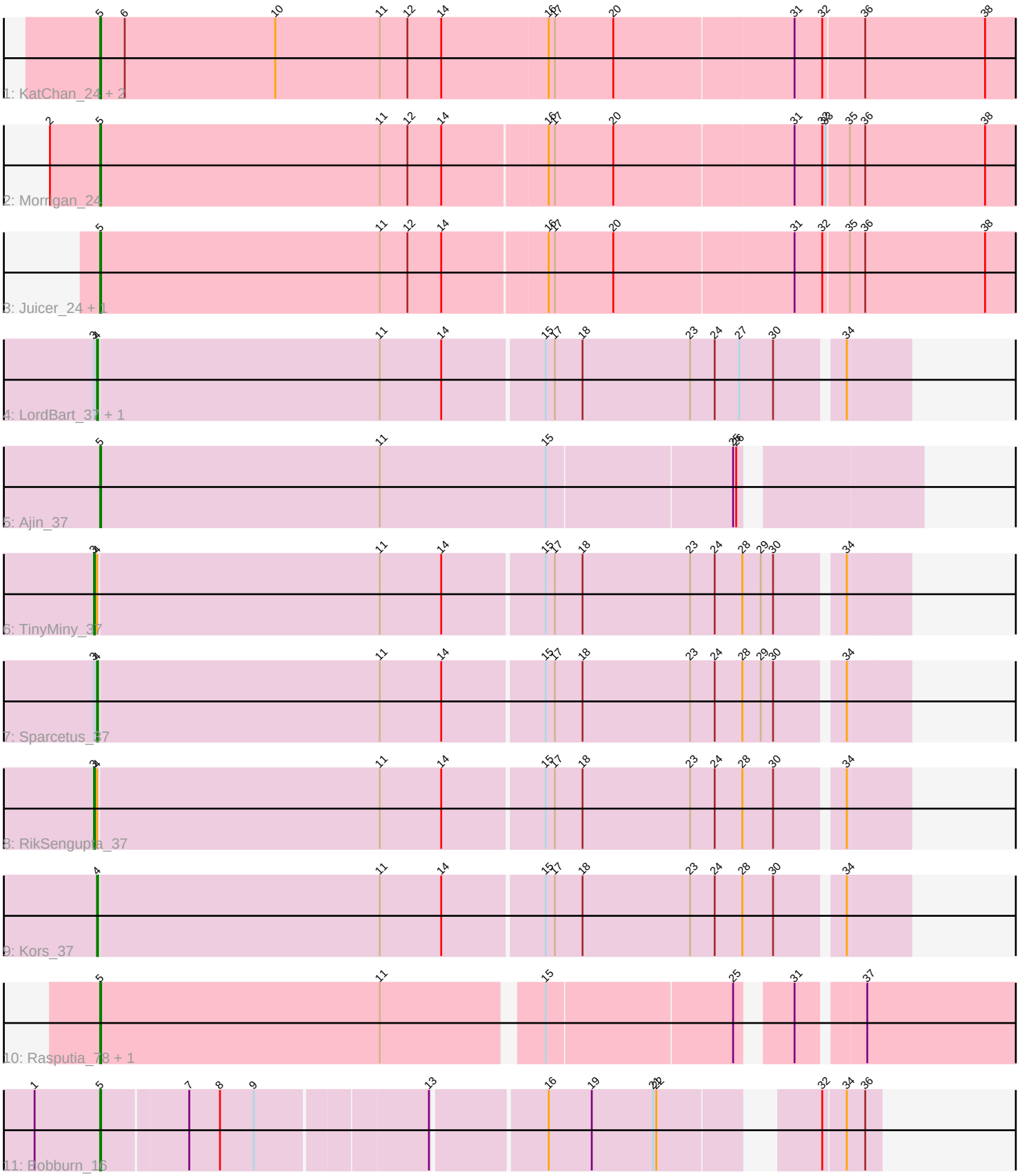
Pham 344509


1: KatChan_24 + 2
2: Morrigan_24
3: Juicer_24 + 1
4: LordBart_37 + 1
5: Ajin_37
6: TinyMiny_37
7: Sparcetus_37
8: RikSengupta_37
9: Kors_37
10: Rasputia_78 + 1
11: Bobburn_16

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 344509 Report

This analysis was run 11/14/26 on database version 672.

Pham number 344509 has 16 members, 0 are drafts.

Phages represented in each track:
• Track 1 : KatChan_24, Luna18_24, Chepli_24
• Track 2 : Morrigan_24
• Track 3 : Juicer_24, Jemerald_24
• Track 4 : LordBart_37, Bramble_37
• Track 5 : Ajin_37
• Track 6 : TinyMiny_37
• Track 7 : Sparcetus_37
• Track 8 : RikSengupta_37
• Track 9 : Kors_37
• Track 10 : Rasputia_78, Hendrix_77
• Track 11 : Bobburn_16

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

The start number called the most often in the published annotations is 5, it was called in 10 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Ajin_37, Bobburn_16, Chepli_24, Hendrix_77, Jemerald_24, Juicer_24, KatChan_24, Luna18_24, Morrigan_24, Rasputia_78,

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

Genes that do not have the "Most Annotated" start:
• Bramble_37, Kors_37, LordBart_37, RikSengupta_37, Sparcetus_37, TinyMiny_37,

Summary by start number:

Start 3:
• Found in 5 of 16 (31.2%) of genes in pham
• Manual Annotations of this start: 2 of 16
• Called 40.0% of time when present

• Phage (with cluster) where this start called: RikSengupta_37 (EF), TinyMiny_37 (EF),

Start 4:
• Found in 6 of 16 (37.5%) of genes in pham
• Manual Annotations of this start: 4 of 16
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Bramble_37 (EF), Kors_37 (EF), LordBart_37 (EF), Sparcetus_37 (EF),

Start 5:
• Found in 10 of 16 (62.5%) of genes in pham
• Manual Annotations of this start: 10 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ajin_37 (EF), Bobburn_16 (singleton), Chepli_24 (EA6), Hendrix_77 (GC), Jemerald_24 (EA6), Juicer_24 (EA6), KatChan_24 (EA6), Luna18_24 (EA6), Morrigan_24 (EA6), Rasputia_78 (GC),

Summary by clusters:

There are 4 clusters represented in this pham: singleton, EF, GC, EA6,

Info for manual annotations of cluster EA6:
•Start number 5 was manually annotated 6 times for cluster EA6.

Info for manual annotations of cluster EF:
•Start number 3 was manually annotated 2 times for cluster EF.
•Start number 4 was manually annotated 4 times for cluster EF.
•Start number 5 was manually annotated 1 time for cluster EF.

Info for manual annotations of cluster GC:
•Start number 5 was manually annotated 2 times for cluster GC.

Gene Information:

Gene: Ajin_37 Start: 23372, Stop: 24145, Start Num: 5
Candidate Starts for Ajin_37:
(Start: 5 @23372 has 10 MA's), (11, 23645), (15, 23807), (25, 23984), (26, 23987),

Gene: Bobburn_16 Start: 12714, Stop: 13403, Start Num: 5
Candidate Starts for Bobburn_16:
(1, 12651), (Start: 5 @12714 has 10 MA's), (7, 12795), (8, 12825), (9, 12858), (13, 13017), (16, 13122), (19, 13164), (21, 13224), (22, 13227), (32, 13350), (34, 13371), (36, 13389),

Gene: Bramble_37 Start: 23335, Stop: 24105, Start Num: 4
Candidate Starts for Bramble_37:
(Start: 3 @23332 has 2 MA's), (Start: 4 @23335 has 4 MA's), (11, 23608), (14, 23668), (15, 23764), (17, 23773), (18, 23800), (23, 23905), (24, 23929), (27, 23953), (30, 23986), (34, 24046),

Gene: Chepli_24 Start: 17414, Stop: 18301, Start Num: 5
Candidate Starts for Chepli_24:

(Start: 5 @17414 has 10 MA's), (6, 17438), (10, 17585), (11, 17687), (12, 17714), (14, 17747), (16, 17849), (17, 17855), (20, 17912), (31, 18083), (32, 18110), (36, 18149), (38, 18266),

Gene: Hendrix_77 Start: 51963, Stop: 52802, Start Num: 5
Candidate Starts for Hendrix_77:
(Start: 5 @51963 has 10 MA's), (11, 52236), (15, 52380), (25, 52557), (31, 52596), (37, 52653),

Gene: Jemerald_24 Start: 18353, Stop: 19237, Start Num: 5
Candidate Starts for Jemerald_24:
(Start: 5 @18353 has 10 MA's), (11, 18626), (12, 18653), (14, 18686), (16, 18785), (17, 18791), (20, 18848), (31, 19019), (32, 19046), (35, 19070), (36, 19085), (38, 19202),

Gene: Juicer_24 Start: 18353, Stop: 19237, Start Num: 5
Candidate Starts for Juicer_24:
(Start: 5 @18353 has 10 MA's), (11, 18626), (12, 18653), (14, 18686), (16, 18785), (17, 18791), (20, 18848), (31, 19019), (32, 19046), (35, 19070), (36, 19085), (38, 19202),

Gene: KatChan_24 Start: 17420, Stop: 18307, Start Num: 5
Candidate Starts for KatChan_24:
(Start: 5 @17420 has 10 MA's), (6, 17444), (10, 17591), (11, 17693), (12, 17720), (14, 17753), (16, 17855), (17, 17861), (20, 17918), (31, 18089), (32, 18116), (36, 18155), (38, 18272),

Gene: Kors_37 Start: 23415, Stop: 24185, Start Num: 4
Candidate Starts for Kors_37:
(Start: 4 @23415 has 4 MA's), (11, 23688), (14, 23748), (15, 23844), (17, 23853), (18, 23880), (23, 23985), (24, 24009), (28, 24036), (30, 24066), (34, 24126),

Gene: LordBart_37 Start: 23331, Stop: 24101, Start Num: 4
Candidate Starts for LordBart_37:
(Start: 3 @23328 has 2 MA's), (Start: 4 @23331 has 4 MA's), (11, 23604), (14, 23664), (15, 23760), (17, 23769), (18, 23796), (23, 23901), (24, 23925), (27, 23949), (30, 23982), (34, 24042),

Gene: Luna18_24 Start: 17420, Stop: 18307, Start Num: 5
Candidate Starts for Luna18_24:
(Start: 5 @17420 has 10 MA's), (6, 17444), (10, 17591), (11, 17693), (12, 17720), (14, 17753), (16, 17855), (17, 17861), (20, 17918), (31, 18089), (32, 18116), (36, 18155), (38, 18272),

Gene: Morrigan_24 Start: 18306, Stop: 19190, Start Num: 5
Candidate Starts for Morrigan_24:
(2, 18258), (Start: 5 @18306 has 10 MA's), (11, 18579), (12, 18606), (14, 18639), (16, 18738), (17, 18744), (20, 18801), (31, 18972), (32, 18999), (33, 19002), (35, 19023), (36, 19038), (38, 19155),

Gene: Rasputia_78 Start: 51931, Stop: 52770, Start Num: 5
Candidate Starts for Rasputia_78:
(Start: 5 @51931 has 10 MA's), (11, 52204), (15, 52348), (25, 52525), (31, 52564), (37, 52621),

Gene: RikSengupta_37 Start: 23449, Stop: 24222, Start Num: 3
Candidate Starts for RikSengupta_37:
(Start: 3 @23449 has 2 MA's), (Start: 4 @23452 has 4 MA's), (11, 23725), (14, 23785), (15, 23881), (17, 23890), (18, 23917), (23, 24022), (24, 24046), (28, 24073), (30, 24103), (34, 24163),

Gene: Sparcetus_37 Start: 23331, Stop: 24101, Start Num: 4
Candidate Starts for Sparcetus_37:

(Start: 3 @23328 has 2 MA's), (Start: 4 @23331 has 4 MA's), (11, 23604), (14, 23664), (15, 23760), (17, 23769), (18, 23796), (23, 23901), (24, 23925), (28, 23952), (29, 23970), (30, 23982), (34, 24042),

Gene: TinyMiny_37 Start: 23347, Stop: 24120, Start Num: 3
Candidate Starts for TinyMiny_37:
(Start: 3 @23347 has 2 MA's), (Start: 4 @23350 has 4 MA's), (11, 23623), (14, 23683), (15, 23779), (17, 23788), (18, 23815), (23, 23920), (24, 23944), (28, 23971), (29, 23989), (30, 24001), (34, 24061),