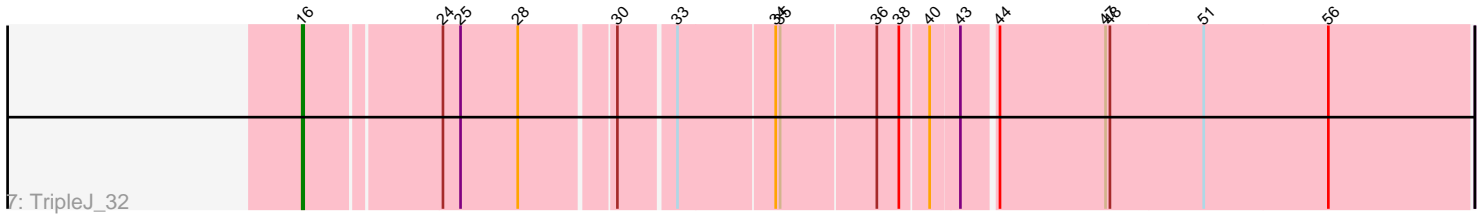
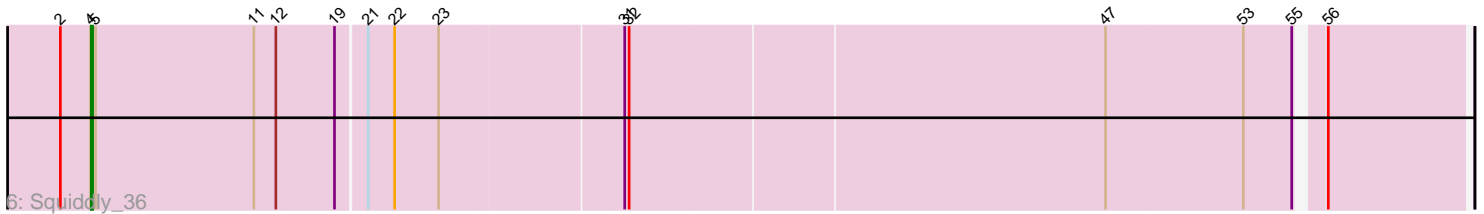
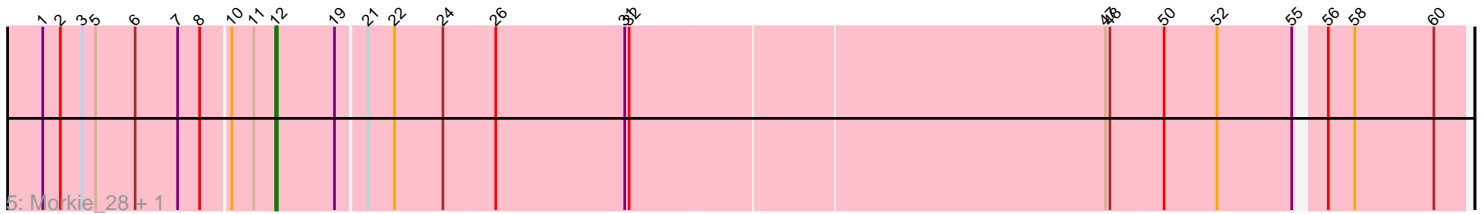
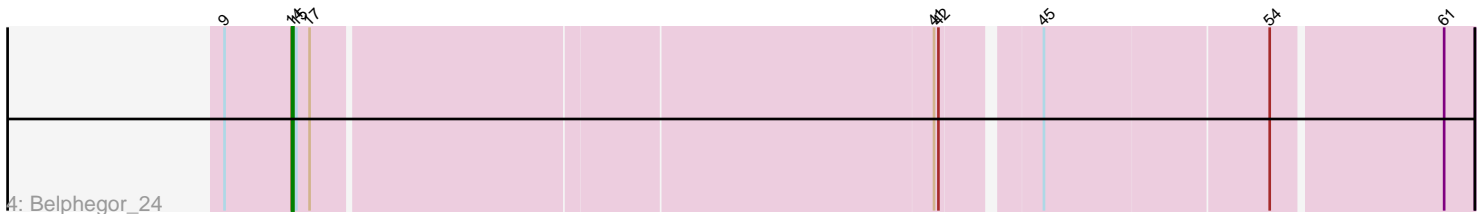
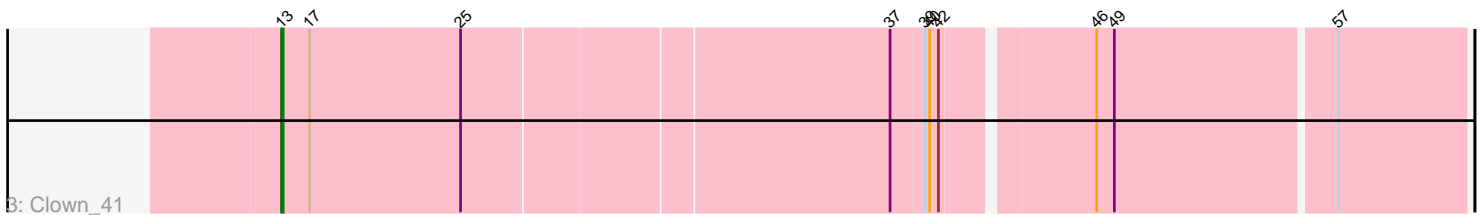
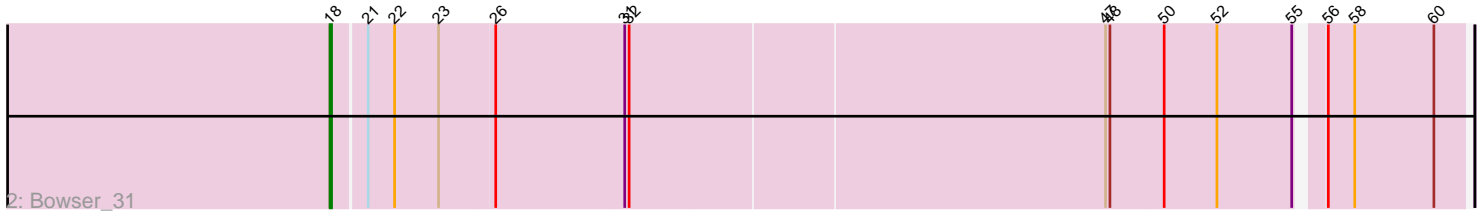
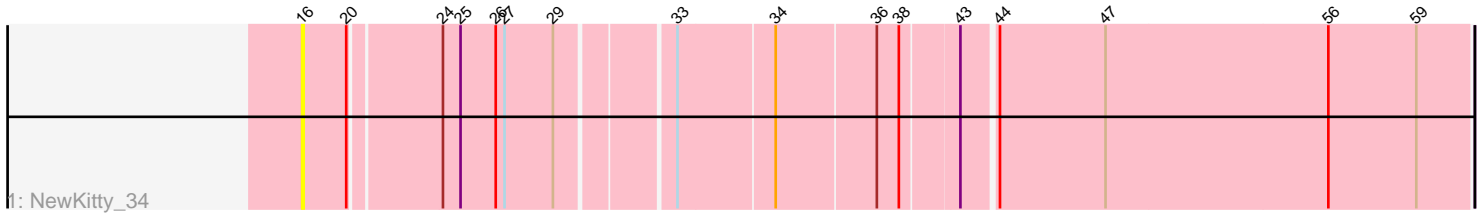


Pham 299127



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 299127 Report

This analysis was run 06/08/26 on database version 649.

Pham number 299127 has 8 members, 2 are drafts.

Phages represented in each track:

- Track 1 : NewKitty_34
- Track 2 : Bowser_31
- Track 3 : Clown_41
- Track 4 : Belphegor_24
- Track 5 : Morkie_28, PhaoMing_27
- Track 6 : Squiddly_36
- Track 7 : TripleJ_32

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

The start number called the most often in the published annotations is 14, it was called in 1 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Belphegor_24,

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

•

Genes that do not have the "Most Annotated" start:

- Bowser_31, Clown_41, Morkie_28, NewKitty_34, PhaoMing_27, Squiddly_36, TripleJ_32,

Summary by start number:

Start 4:

- Found in 1 of 8 (12.5%) of genes in pham
- Manual Annotations of this start: 1 of 6
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Squiddly_36 (DN2),

Start 12:

- Found in 3 of 8 (37.5%) of genes in pham
- Manual Annotations of this start: 1 of 6

- Called 66.7% of time when present
- Phage (with cluster) where this start called: Morkie_28 (DH), PhaoMing_27 (UNK),

Start 13:

- Found in 1 of 8 (12.5%) of genes in pham
- Manual Annotations of this start: 1 of 6
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Clown_41 (DC2),

Start 14:

- Found in 1 of 8 (12.5%) of genes in pham
- Manual Annotations of this start: 1 of 6
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Belphegor_24 (DE2),

Start 16:

- Found in 2 of 8 (25.0%) of genes in pham
- Manual Annotations of this start: 1 of 6
- Called 100.0% of time when present
- Phage (with cluster) where this start called: NewKitty_34 (AY), TripleJ_32 (FJ),

Start 18:

- Found in 1 of 8 (12.5%) of genes in pham
- Manual Annotations of this start: 1 of 6
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bowser_31 (DB),

Summary by clusters:

There are 8 clusters represented in this pham: DH, DE2, DB, DN2, AY, FJ, UNK, DC2,

Info for manual annotations of cluster DB:

- Start number 18 was manually annotated 1 time for cluster DB.

Info for manual annotations of cluster DC2:

- Start number 13 was manually annotated 1 time for cluster DC2.

Info for manual annotations of cluster DE2:

- Start number 14 was manually annotated 1 time for cluster DE2.

Info for manual annotations of cluster DH:

- Start number 12 was manually annotated 1 time for cluster DH.

Info for manual annotations of cluster DN2:

- Start number 4 was manually annotated 1 time for cluster DN2.

Info for manual annotations of cluster FJ:

- Start number 16 was manually annotated 1 time for cluster FJ.

Gene Information:

Gene: Belphegor_24 Start: 20323, Stop: 19565, Start Num: 14

Candidate Starts for Belphegor_24:

(9, 20368), (Start: 14 @20323 has 1 MA's), (15, 20320), (17, 20311), (41, 19903), (42, 19900), (45, 19843), (54, 19696), (61, 19585),

Gene: Bowser_31 Start: 26713, Stop: 25970, Start Num: 18

Candidate Starts for Bowser_31:

(Start: 18 @26713 has 1 MA's), (21, 26692), (22, 26674), (23, 26644), (26, 26608), (31, 26521), (32, 26518), (47, 26200), (48, 26197), (50, 26161), (52, 26125), (55, 26074), (56, 26062), (58, 26044), (60, 25990),

Gene: Clown_41 Start: 34888, Stop: 34121, Start Num: 13

Candidate Starts for Clown_41:

(Start: 13 @34888 has 1 MA's), (17, 34870), (25, 34768), (37, 34486), (39, 34465), (40, 34462), (42, 34456), (46, 34363), (49, 34351), (57, 34207),

Gene: Morkie_28 Start: 24558, Stop: 23779, Start Num: 12

Candidate Starts for Morkie_28:

(1, 24708), (2, 24696), (3, 24681), (5, 24672), (6, 24645), (7, 24618), (8, 24603), (10, 24585), (11, 24570), (Start: 12 @24558 has 1 MA's), (19, 24519), (21, 24501), (22, 24483), (24, 24450), (26, 24417), (31, 24330), (32, 24327), (47, 24009), (48, 24006), (50, 23970), (52, 23934), (55, 23883), (56, 23871), (58, 23853), (60, 23799),

Gene: NewKitty_34 Start: 23949, Stop: 23197, Start Num: 16

Candidate Starts for NewKitty_34:

(Start: 16 @23949 has 1 MA's), (20, 23919), (24, 23862), (25, 23850), (26, 23826), (27, 23820), (29, 23787), (33, 23715), (34, 23652), (36, 23586), (38, 23571), (43, 23535), (44, 23514), (47, 23442), (56, 23292), (59, 23232),

Gene: PhaoMing_27 Start: 25812, Stop: 25033, Start Num: 12

Candidate Starts for PhaoMing_27:

(1, 25962), (2, 25950), (3, 25935), (5, 25926), (6, 25899), (7, 25872), (8, 25857), (10, 25839), (11, 25824), (Start: 12 @25812 has 1 MA's), (19, 25773), (21, 25755), (22, 25737), (24, 25704), (26, 25671), (31, 25584), (32, 25581), (47, 25263), (48, 25260), (50, 25224), (52, 25188), (55, 25137), (56, 25125), (58, 25107), (60, 25053),

Gene: Squiddly_36 Start: 28950, Stop: 28048, Start Num: 4

Candidate Starts for Squiddly_36:

(2, 28971), (Start: 4 @28950 has 1 MA's), (5, 28947), (11, 28839), (Start: 12 @28824 has 1 MA's), (19, 28785), (21, 28767), (22, 28749), (23, 28719), (31, 28599), (32, 28596), (47, 28278), (53, 28185), (55, 28152), (56, 28140),

Gene: TripleJ_32 Start: 25103, Stop: 24351, Start Num: 16

Candidate Starts for TripleJ_32:

(Start: 16 @25103 has 1 MA's), (24, 25016), (25, 25004), (28, 24965), (30, 24905), (33, 24869), (34, 24806), (35, 24803), (36, 24740), (38, 24725), (40, 24707), (43, 24689), (44, 24668), (47, 24596), (48, 24593), (51, 24530), (56, 24446),