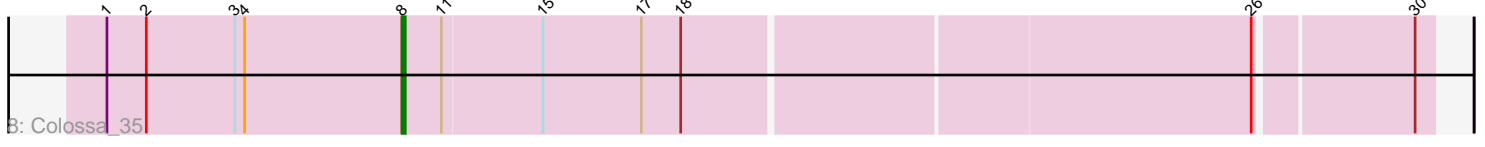
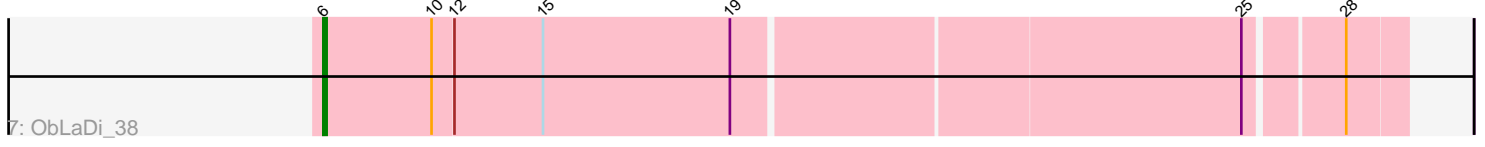
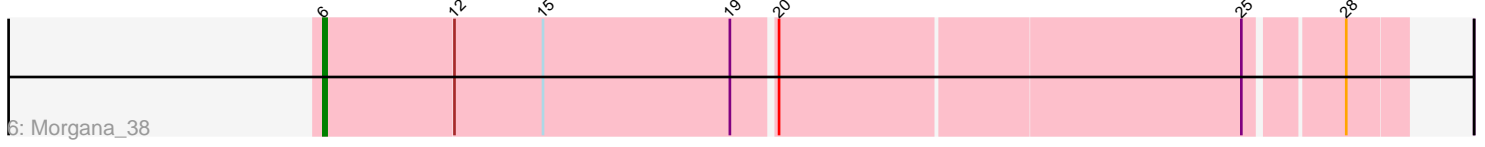
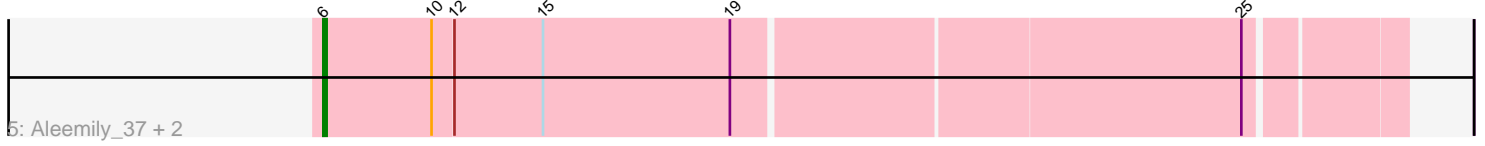
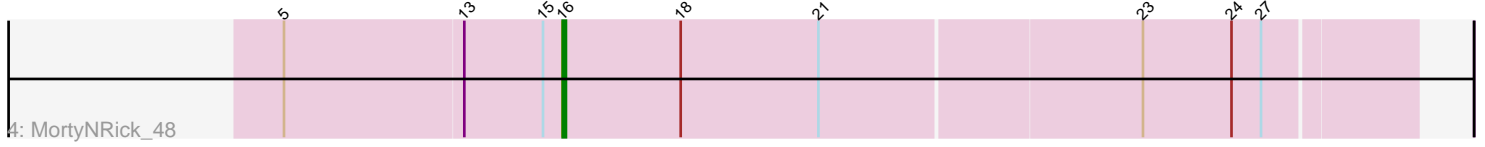
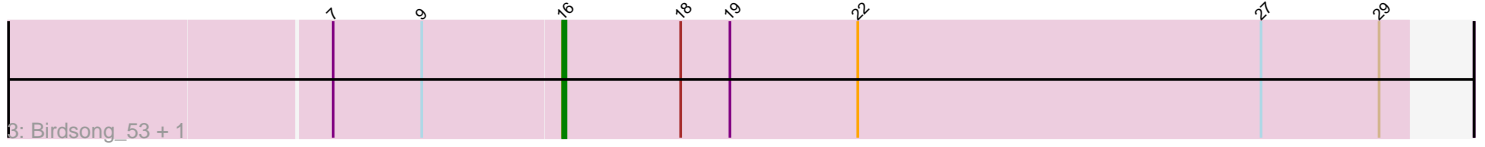
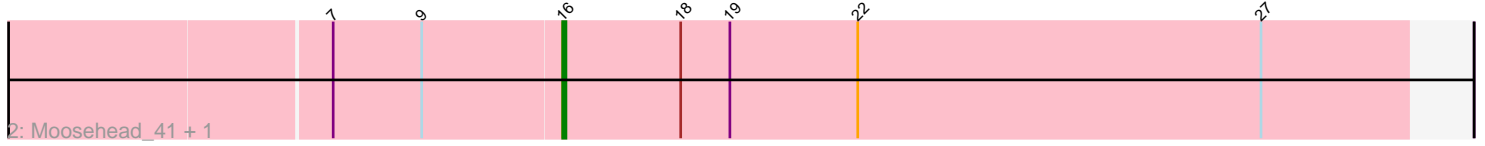


Pham 312016



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 312016 Report

This analysis was run 06/27/26 on database version 652.

Pham number 312016 has 22 members, 0 are drafts.

Phages represented in each track:

- Track 1 : OneDirection_34, BotCity_55
- Track 2 : Moosehead_41, Phabuloso_54
- Track 3 : Birdsong_53, Asapag_53
- Track 4 : MortyNRick_48
- Track 5 : Aleemily_37, Cafasso_38, ModicumRichard_38
- Track 6 : Morgana_38
- Track 7 : ObLaDi_38
- Track 8 : Colossa_35
- Track 9 : VanLee_35
- Track 10 : Cepens_38, Megabear_38, Jeon_38, GodPhather_39, Taptic_38, Argie_39
- Track 11 : PR_38, D12_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 9 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Asapag_53, Birdsong_53, BotCity_55, D12_37, Moosehead_41, MortyNRick_48, OneDirection_34, PR_38, Phabuloso_54,

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

- Argie_39, Cepens_38, GodPhather_39, Jeon_38, Megabear_38, Taptic_38,

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

- Aleemily_37, Cafasso_38, Colossa_35, ModicumRichard_38, Morgana_38, ObLaDi_38, VanLee_35,

Summary by start number:

Start 6:

- Found in 5 of 22 (22.7%) of genes in pham
- Manual Annotations of this start: 5 of 22

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aleemily_37 (DZ), Cafasso_38 (DZ), ModicumRichard_38 (DZ), Morgana_38 (DZ), ObLaDi_38 (DZ),

Start 8:

- Found in 2 of 22 (9.1%) of genes in pham
- Manual Annotations of this start: 2 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Colossa_35 (KA), VanLee_35 (KA),

Start 15:

- Found in 16 of 22 (72.7%) of genes in pham
- Manual Annotations of this start: 6 of 22
- Called 37.5% of time when present
- Phage (with cluster) where this start called: Argie_39 (W), Cepens_38 (W), GodPhather_39 (W), Jeon_38 (W), Megabear_38 (W), Taptic_38 (W),

Start 16:

- Found in 15 of 22 (68.2%) of genes in pham
- Manual Annotations of this start: 9 of 22
- Called 60.0% of time when present
- Phage (with cluster) where this start called: Asapag_53 (DN1), Birdsong_53 (DN), BotCity_55 (DN), D12_37 (W), Moosehead_41 (CZ6), MortyNRick_48 (DN), OneDirection_34 (CZ6), PR_38 (W), Phabuloso_54 (DN1),

Summary by clusters:

There are 6 clusters represented in this pham: DN, KA, CZ6, DZ, W, DN1,

Info for manual annotations of cluster CZ6:

- Start number 16 was manually annotated 2 times for cluster CZ6.

Info for manual annotations of cluster DN:

- Start number 16 was manually annotated 3 times for cluster DN.

Info for manual annotations of cluster DN1:

- Start number 16 was manually annotated 2 times for cluster DN1.

Info for manual annotations of cluster DZ:

- Start number 6 was manually annotated 5 times for cluster DZ.

Info for manual annotations of cluster KA:

- Start number 8 was manually annotated 2 times for cluster KA.

Info for manual annotations of cluster W:

- Start number 15 was manually annotated 6 times for cluster W.
- Start number 16 was manually annotated 2 times for cluster W.

Gene Information:

Gene: Aleemily_37 Start: 31413, Stop: 31730, Start Num: 6

Candidate Starts for Aleemily_37:

(Start: 6 @31413 has 5 MA's), (10, 31446), (12, 31452), (Start: 15 @31479 has 6 MA's), (19, 31536), (25, 31686),

Gene: Argie_39 Start: 38767, Stop: 39039, Start Num: 15

Candidate Starts for Argie_39:

(14, 38758), (Start: 15 @38767 has 6 MA's), (Start: 16 @38773 has 9 MA's), (18, 38809), (19, 38824), (24, 38974),

Gene: Asapag_53 Start: 35734, Stop: 35991, Start Num: 16

Candidate Starts for Asapag_53:

(7, 35665), (9, 35692), (Start: 16 @35734 has 9 MA's), (18, 35770), (19, 35785), (22, 35824), (27, 35947), (29, 35983),

Gene: Birdsong_53 Start: 35955, Stop: 36212, Start Num: 16

Candidate Starts for Birdsong_53:

(7, 35886), (9, 35913), (Start: 16 @35955 has 9 MA's), (18, 35991), (19, 36006), (22, 36045), (27, 36168), (29, 36204),

Gene: BotCity_55 Start: 36501, Stop: 36758, Start Num: 16

Candidate Starts for BotCity_55:

(7, 36432), (9, 36459), (Start: 16 @36501 has 9 MA's), (18, 36537), (19, 36552), (27, 36714),

Gene: Cafasso_38 Start: 31987, Stop: 32304, Start Num: 6

Candidate Starts for Cafasso_38:

(Start: 6 @31987 has 5 MA's), (10, 32020), (12, 32026), (Start: 15 @32053 has 6 MA's), (19, 32110), (25, 32260),

Gene: Cepens_38 Start: 38482, Stop: 38754, Start Num: 15

Candidate Starts for Cepens_38:

(14, 38473), (Start: 15 @38482 has 6 MA's), (Start: 16 @38488 has 9 MA's), (18, 38524), (19, 38539), (24, 38689),

Gene: Colossa_35 Start: 29052, Stop: 29354, Start Num: 8

Candidate Starts for Colossa_35:

(1, 28962), (2, 28974), (3, 29001), (4, 29004), (Start: 8 @29052 has 2 MA's), (11, 29064), (Start: 15 @29094 has 6 MA's), (17, 29124), (18, 29136), (26, 29304), (30, 29349),

Gene: D12_37 Start: 39036, Stop: 39302, Start Num: 16

Candidate Starts for D12_37:

(14, 39021), (Start: 15 @39030 has 6 MA's), (Start: 16 @39036 has 9 MA's), (18, 39072), (19, 39087), (24, 39237),

Gene: GodPhather_39 Start: 39246, Stop: 39518, Start Num: 15

Candidate Starts for GodPhather_39:

(14, 39237), (Start: 15 @39246 has 6 MA's), (Start: 16 @39252 has 9 MA's), (18, 39288), (19, 39303), (24, 39453),

Gene: Jeon_38 Start: 38988, Stop: 39260, Start Num: 15

Candidate Starts for Jeon_38:

(14, 38979), (Start: 15 @38988 has 6 MA's), (Start: 16 @38994 has 9 MA's), (18, 39030), (19, 39045), (24, 39195),

Gene: Megabear_38 Start: 38403, Stop: 38675, Start Num: 15

Candidate Starts for Megabear_38:

(14, 38394), (Start: 15 @38403 has 6 MA's), (Start: 16 @38409 has 9 MA's), (18, 38445), (19, 38460), (24, 38610),

Gene: ModicumRichard_38 Start: 31986, Stop: 32303, Start Num: 6

Candidate Starts for ModicumRichard_38:

(Start: 6 @31986 has 5 MA's), (10, 32019), (12, 32025), (Start: 15 @32052 has 6 MA's), (19, 32109), (25, 32259),

Gene: Moosehead_41 Start: 28984, Stop: 29241, Start Num: 16

Candidate Starts for Moosehead_41:

(7, 28915), (9, 28942), (Start: 16 @28984 has 9 MA's), (18, 29020), (19, 29035), (22, 29074), (27, 29197),

Gene: Morgana_38 Start: 31938, Stop: 32255, Start Num: 6

Candidate Starts for Morgana_38:

(Start: 6 @31938 has 5 MA's), (12, 31977), (Start: 15 @32004 has 6 MA's), (19, 32061), (20, 32073), (25, 32211), (28, 32238),

Gene: MortyNRick_48 Start: 36007, Stop: 36261, Start Num: 16

Candidate Starts for MortyNRick_48:

(5, 35923), (13, 35977), (Start: 15 @36001 has 6 MA's), (Start: 16 @36007 has 9 MA's), (18, 36043), (21, 36085), (23, 36181), (24, 36208), (27, 36217),

Gene: ObLaDi_38 Start: 31970, Stop: 32287, Start Num: 6

Candidate Starts for ObLaDi_38:

(Start: 6 @31970 has 5 MA's), (10, 32003), (12, 32009), (Start: 15 @32036 has 6 MA's), (19, 32093), (25, 32243), (28, 32270),

Gene: OneDirection_34 Start: 27370, Stop: 27627, Start Num: 16

Candidate Starts for OneDirection_34:

(7, 27301), (9, 27328), (Start: 16 @27370 has 9 MA's), (18, 27406), (19, 27421), (27, 27583),

Gene: PR_38 Start: 39013, Stop: 39279, Start Num: 16

Candidate Starts for PR_38:

(14, 38998), (Start: 15 @39007 has 6 MA's), (Start: 16 @39013 has 9 MA's), (18, 39049), (19, 39064), (24, 39214),

Gene: Phabuloso_54 Start: 36332, Stop: 36589, Start Num: 16

Candidate Starts for Phabuloso_54:

(7, 36263), (9, 36290), (Start: 16 @36332 has 9 MA's), (18, 36368), (19, 36383), (22, 36422), (27, 36545),

Gene: Taptic_38 Start: 38403, Stop: 38675, Start Num: 15

Candidate Starts for Taptic_38:

(14, 38394), (Start: 15 @38403 has 6 MA's), (Start: 16 @38409 has 9 MA's), (18, 38445), (19, 38460), (24, 38610),

Gene: VanLee_35 Start: 29075, Stop: 29377, Start Num: 8

Candidate Starts for VanLee_35:

(Start: 8 @29075 has 2 MA's), (11, 29087), (Start: 15 @29117 has 6 MA's), (17, 29147), (30, 29372),