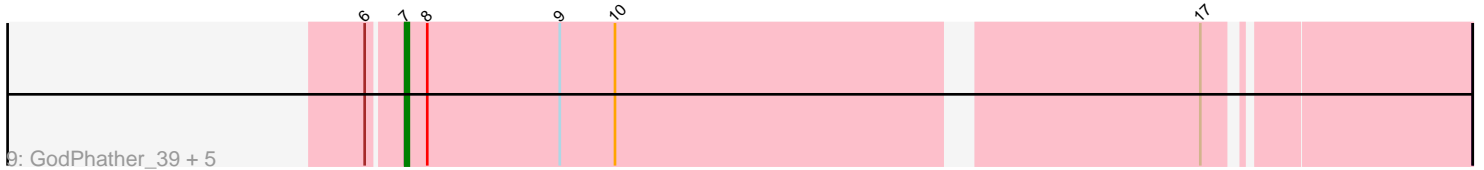
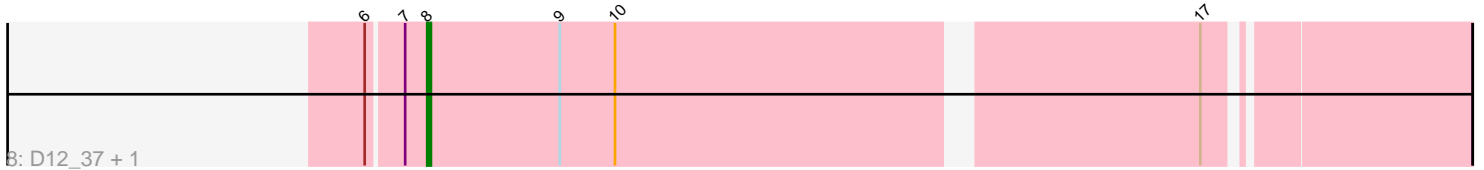
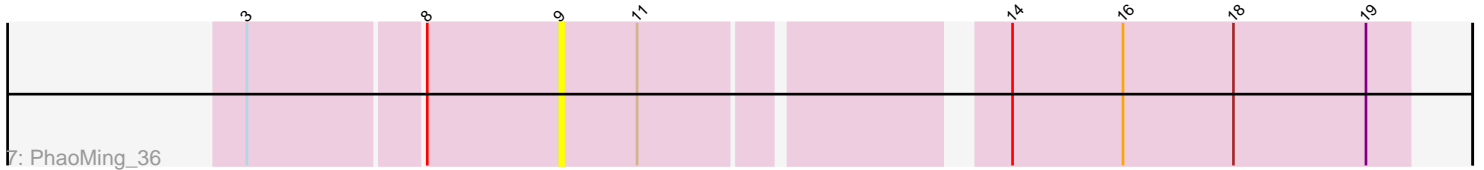
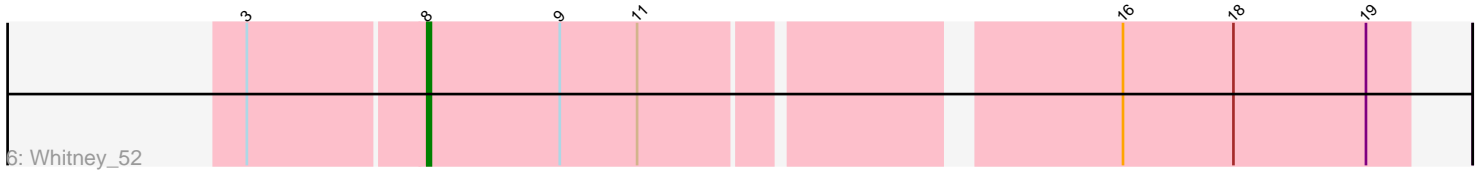
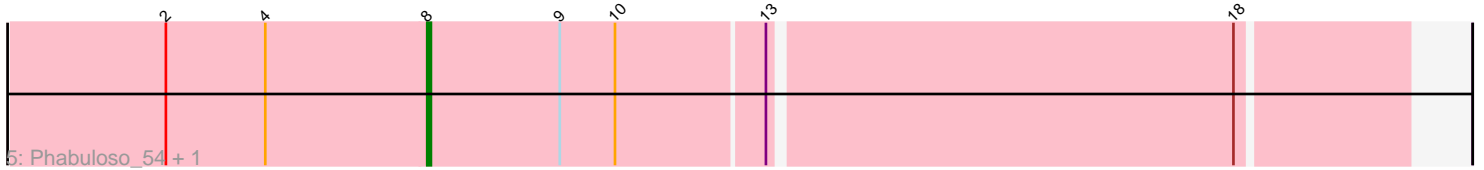
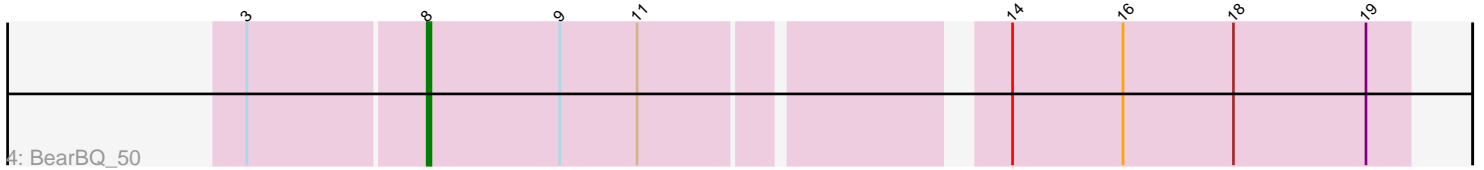
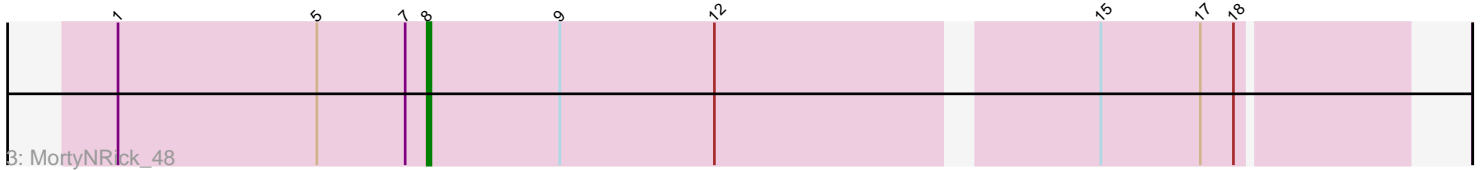
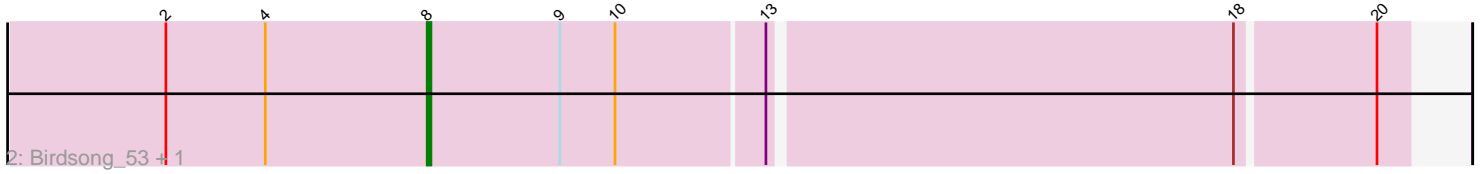
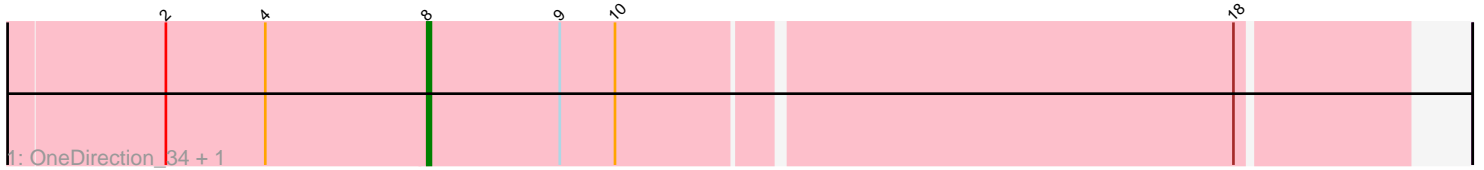


Pham 296991



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 296991 Report

This analysis was run 04/25/26 on database version 644.

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 296991 has 18 members, 1 are drafts.

Phages represented in each track:

- Track 1 : OneDirection_34, BotCity_55
- Track 2 : Birdsong_53, Asapag_53
- Track 3 : MortyNRick_48
- Track 4 : BearBQ_50
- Track 5 : Phabuloso_54, Moosehead_41
- Track 6 : Whitney_52
- Track 7 : PhaoMing_36
- Track 8 : D12_37, PR_38
- Track 9 : GodPhather_39, Cepens_38, Megabear_38, Jeon_38, Taptic_38, Argie_39

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

The start number called the most often in the published annotations is 8, it was called in 11 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Asapag_53, BearBQ_50, Birdsong_53, BotCity_55, D12_37, Moosehead_41, MortyNRick_48, OneDirection_34, PR_38, Phabuloso_54, Whitney_52,

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

- Argie_39, Cepens_38, GodPhather_39, Jeon_38, Megabear_38, PhaoMing_36, Taptic_38,

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

-

Summary by start number:

Start 7:

- Found in 9 of 18 (50.0%) of genes in pham
- Manual Annotations of this start: 6 of 17
- Called 66.7% 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 8:

- Found in 18 of 18 (100.0%) of genes in pham
- Manual Annotations of this start: 11 of 17
- Called 61.1% of time when present
- Phage (with cluster) where this start called: Asapag_53 (DN1), BearBQ_50 (DN), Birdsong_53 (DN), BotCity_55 (DN), D12_37 (W), Moosehead_41 (CZ6), MortyNRick_48 (DN), OneDirection_34 (CZ6), PR_38 (W), Phabuloso_54 (DN1), Whitney_52 (DN1),

Start 9:

- Found in 18 of 18 (100.0%) of genes in pham
- No Manual Annotations of this start.
- Called 5.6% of time when present
- Phage (with cluster) where this start called: PhaoMing_36 (UNK),

Summary by clusters:

There are 5 clusters represented in this pham: DN, CZ6, UNK, DN1, W,

Info for manual annotations of cluster CZ6:

- Start number 8 was manually annotated 2 times for cluster CZ6.

Info for manual annotations of cluster DN:

- Start number 8 was manually annotated 4 times for cluster DN.

Info for manual annotations of cluster DN1:

- Start number 8 was manually annotated 3 times for cluster DN1.

Info for manual annotations of cluster W:

- Start number 7 was manually annotated 6 times for cluster W.
- Start number 8 was manually annotated 2 times for cluster W.

Gene Information:

Gene: Argie_39 Start: 38767, Stop: 39039, Start Num: 7

Candidate Starts for Argie_39:

(6, 38758), (Start: 7 @38767 has 6 MA's), (Start: 8 @38773 has 11 MA's), (9, 38809), (10, 38824), (17, 38974),

Gene: Asapag_53 Start: 35734, Stop: 35991, Start Num: 8

Candidate Starts for Asapag_53:

(2, 35665), (4, 35692), (Start: 8 @35734 has 11 MA's), (9, 35770), (10, 35785), (13, 35824), (18, 35947), (20, 35983),

Gene: BearBQ_50 Start: 36850, Stop: 37101, Start Num: 8
Candidate Starts for BearBQ_50:
(3, 36805), (Start: 8 @36850 has 11 MA's), (9, 36886), (11, 36907), (14, 36994), (16, 37024), (18, 37054), (19, 37090),

Gene: Birdsong_53 Start: 35955, Stop: 36212, Start Num: 8
Candidate Starts for Birdsong_53:
(2, 35886), (4, 35913), (Start: 8 @35955 has 11 MA's), (9, 35991), (10, 36006), (13, 36045), (18, 36168), (20, 36204),

Gene: BotCity_55 Start: 36501, Stop: 36758, Start Num: 8
Candidate Starts for BotCity_55:
(2, 36432), (4, 36459), (Start: 8 @36501 has 11 MA's), (9, 36537), (10, 36552), (18, 36714),

Gene: Cepens_38 Start: 38482, Stop: 38754, Start Num: 7
Candidate Starts for Cepens_38:
(6, 38473), (Start: 7 @38482 has 6 MA's), (Start: 8 @38488 has 11 MA's), (9, 38524), (10, 38539), (17, 38689),

Gene: D12_37 Start: 39036, Stop: 39302, Start Num: 8
Candidate Starts for D12_37:
(6, 39021), (Start: 7 @39030 has 6 MA's), (Start: 8 @39036 has 11 MA's), (9, 39072), (10, 39087), (17, 39237),

Gene: GodPhather_39 Start: 39246, Stop: 39518, Start Num: 7
Candidate Starts for GodPhather_39:
(6, 39237), (Start: 7 @39246 has 6 MA's), (Start: 8 @39252 has 11 MA's), (9, 39288), (10, 39303), (17, 39453),

Gene: Jeon_38 Start: 38988, Stop: 39260, Start Num: 7
Candidate Starts for Jeon_38:
(6, 38979), (Start: 7 @38988 has 6 MA's), (Start: 8 @38994 has 11 MA's), (9, 39030), (10, 39045), (17, 39195),

Gene: Megabear_38 Start: 38403, Stop: 38675, Start Num: 7
Candidate Starts for Megabear_38:
(6, 38394), (Start: 7 @38403 has 6 MA's), (Start: 8 @38409 has 11 MA's), (9, 38445), (10, 38460), (17, 38610),

Gene: Moosehead_41 Start: 28984, Stop: 29241, Start Num: 8
Candidate Starts for Moosehead_41:
(2, 28915), (4, 28942), (Start: 8 @28984 has 11 MA's), (9, 29020), (10, 29035), (13, 29074), (18, 29197),

Gene: MortyNRick_48 Start: 36007, Stop: 36261, Start Num: 8
Candidate Starts for MortyNRick_48:
(1, 35923), (5, 35977), (Start: 7 @36001 has 6 MA's), (Start: 8 @36007 has 11 MA's), (9, 36043), (12, 36085), (15, 36181), (17, 36208), (18, 36217),

Gene: OneDirection_34 Start: 27370, Stop: 27627, Start Num: 8
Candidate Starts for OneDirection_34:
(2, 27301), (4, 27328), (Start: 8 @27370 has 11 MA's), (9, 27406), (10, 27421), (18, 27583),

Gene: PR_38 Start: 39013, Stop: 39279, Start Num: 8

Candidate Starts for PR_38:

(6, 38998), (Start: 7 @39007 has 6 MA's), (Start: 8 @39013 has 11 MA's), (9, 39049), (10, 39064), (17, 39214),

Gene: Phabuloso_54 Start: 36332, Stop: 36589, Start Num: 8

Candidate Starts for Phabuloso_54:

(2, 36263), (4, 36290), (Start: 8 @36332 has 11 MA's), (9, 36368), (10, 36383), (13, 36422), (18, 36545),

Gene: PhaoMing_36 Start: 32372, Stop: 32587, Start Num: 9

Candidate Starts for PhaoMing_36:

(3, 32291), (Start: 8 @32336 has 11 MA's), (9, 32372), (11, 32393), (14, 32480), (16, 32510), (18, 32540), (19, 32576),

Gene: Taptic_38 Start: 38403, Stop: 38675, Start Num: 7

Candidate Starts for Taptic_38:

(6, 38394), (Start: 7 @38403 has 6 MA's), (Start: 8 @38409 has 11 MA's), (9, 38445), (10, 38460), (17, 38610),

Gene: Whitney_52 Start: 37087, Stop: 37338, Start Num: 8

Candidate Starts for Whitney_52:

(3, 37042), (Start: 8 @37087 has 11 MA's), (9, 37123), (11, 37144), (16, 37261), (18, 37291), (19, 37327),