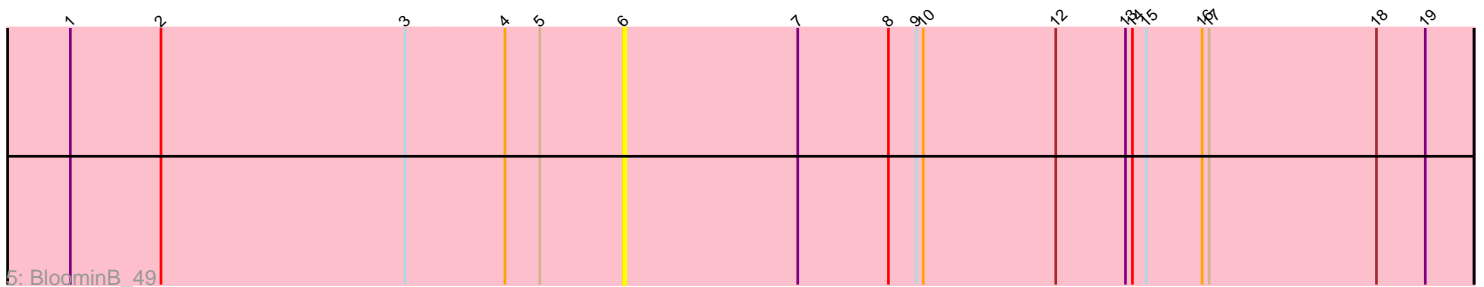
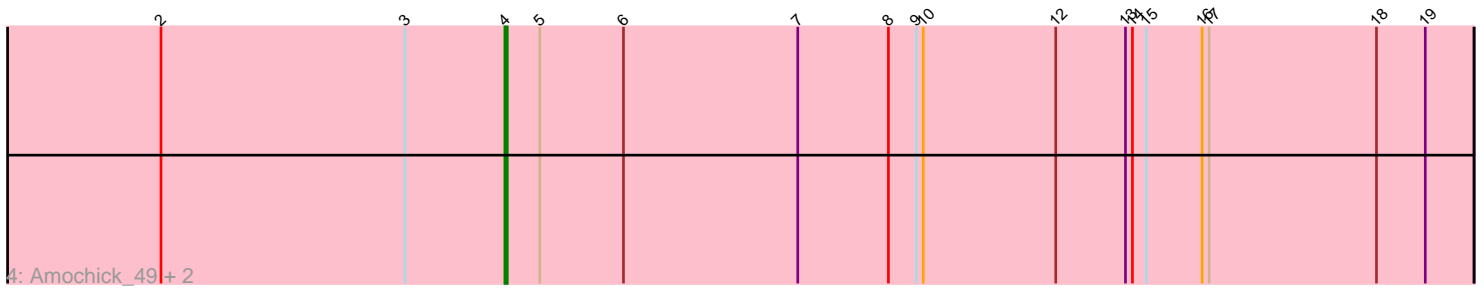
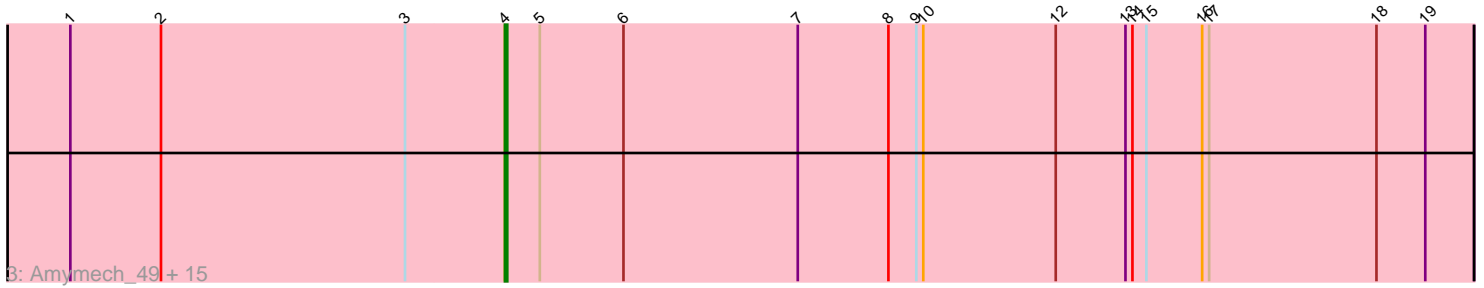
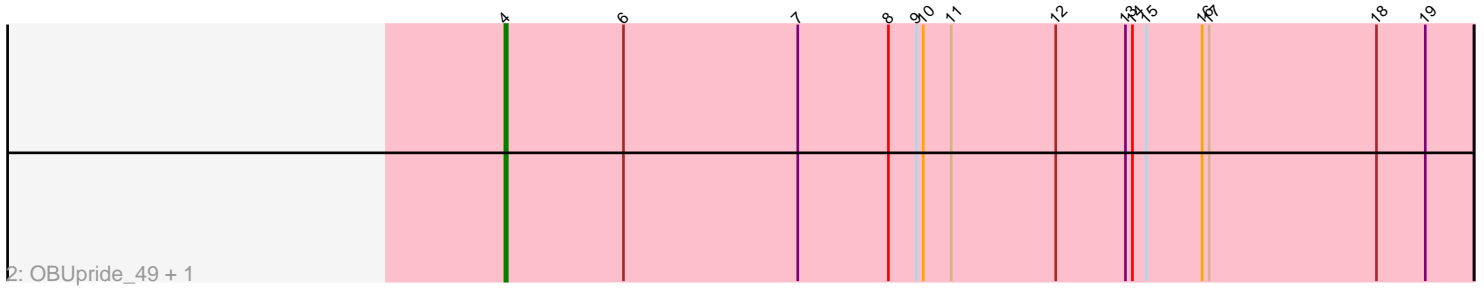
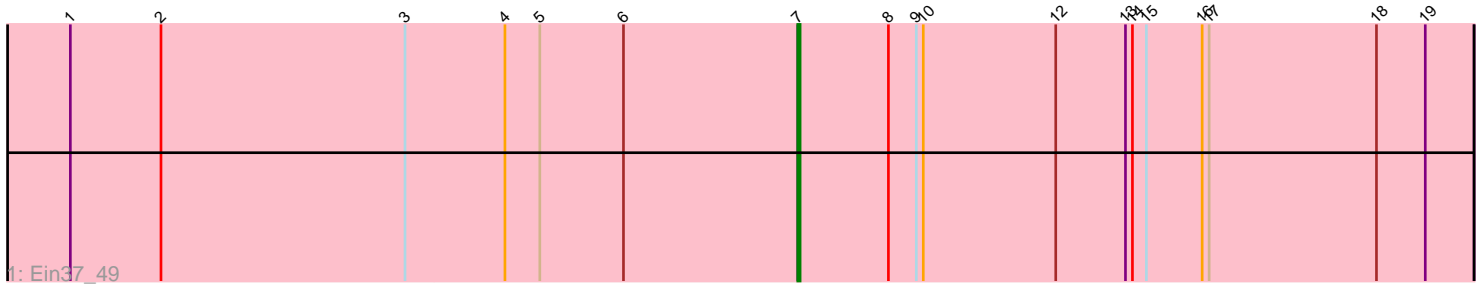


Pham 311987



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 311987 Report

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

Pham number 311987 has 23 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Ein37\_49
- Track 2 : OBUpride\_49, Gravaillia\_48
- Track 3 : Amymech\_49, HH92\_48, Forge\_47, Dewey\_47, Luke\_49, Kinbote\_49, Luna22\_47, Hail\_47, Ubuntu\_49, Hadrien\_49, LilHazelNut\_49, Wishmaker\_47, Evanesce\_48, DeepSoil15\_49, Webster2\_49, Giles\_47
- Track 4 : Amochick\_49, Gancho\_48, Daegal\_51
- Track 5 : BloominB\_49

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

The start number called the most often in the published annotations is 4, it was called in 21 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amochick\_49, Amymech\_49, Daegal\_51, DeepSoil15\_49, Dewey\_47, Evanesce\_48, Forge\_47, Gancho\_48, Giles\_47, Gravaillia\_48, HH92\_48, Hadrien\_49, Hail\_47, Kinbote\_49, LilHazelNut\_49, Luke\_49, Luna22\_47, OBUpride\_49, Ubuntu\_49, Webster2\_49, Wishmaker\_47,

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

- BloominB\_49, Ein37\_49,

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

- 

### **Summary by start number:**

Start 4:

- Found in 23 of 23 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 21 of 22
- Called 91.3% of time when present
- Phage (with cluster) where this start called: Amochick\_49 (Q), Amymech\_49 (Q), Daegal\_51 (Q), DeepSoil15\_49 (Q), Dewey\_47 (Q), Evanesce\_48 (Q), Forge\_47 (Q), Gancho\_48 (Q), Giles\_47 (Q), Gravaillia\_48 (Q), HH92\_48 (Q), Hadrien\_49 (Q),

Hail\_47 (Q), Kinbote\_49 (Q), LilHazelnut\_49 (Q), Luke\_49 (Q), Luna22\_47 (Q), OBUpride\_49 (Q), Ubuntu\_49 (Q), Webster2\_49 (Q), Wishmaker\_47 (Q),

Start 6:

- Found in 23 of 23 ( 100.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 4.3% of time when present
- Phage (with cluster) where this start called: BloominB\_49 (Q),

Start 7:

- Found in 23 of 23 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 4.3% of time when present
- Phage (with cluster) where this start called: Ein37\_49 (Q),

### Summary by clusters:

There is one cluster represented in this pham: Q

Info for manual annotations of cluster Q:

- Start number 4 was manually annotated 21 times for cluster Q.
- Start number 7 was manually annotated 1 time for cluster Q.

### Gene Information:

Gene: Amochick\_49 Start: 36610, Stop: 36194, Start Num: 4

Candidate Starts for Amochick\_49:

(2, 36757), (3, 36652), (Start: 4 @36610 has 21 MA's), (5, 36595), (6, 36559), (Start: 7 @36484 has 1 MA's), (8, 36445), (9, 36433), (10, 36430), (12, 36373), (13, 36343), (14, 36340), (15, 36334), (16, 36310), (17, 36307), (18, 36235), (19, 36214),

Gene: Amymech\_49 Start: 36604, Stop: 36188, Start Num: 4

Candidate Starts for Amymech\_49:

(1, 36790), (2, 36751), (3, 36646), (Start: 4 @36604 has 21 MA's), (5, 36589), (6, 36553), (Start: 7 @36478 has 1 MA's), (8, 36439), (9, 36427), (10, 36424), (12, 36367), (13, 36337), (14, 36334), (15, 36328), (16, 36304), (17, 36301), (18, 36229), (19, 36208),

Gene: BloominB\_49 Start: 36553, Stop: 36188, Start Num: 6

Candidate Starts for BloominB\_49:

(1, 36790), (2, 36751), (3, 36646), (Start: 4 @36604 has 21 MA's), (5, 36589), (6, 36553), (Start: 7 @36478 has 1 MA's), (8, 36439), (9, 36427), (10, 36424), (12, 36367), (13, 36337), (14, 36334), (15, 36328), (16, 36304), (17, 36301), (18, 36229), (19, 36208),

Gene: Daegal\_51 Start: 37188, Stop: 36772, Start Num: 4

Candidate Starts for Daegal\_51:

(2, 37335), (3, 37230), (Start: 4 @37188 has 21 MA's), (5, 37173), (6, 37137), (Start: 7 @37062 has 1 MA's), (8, 37023), (9, 37011), (10, 37008), (12, 36951), (13, 36921), (14, 36918), (15, 36912), (16, 36888), (17, 36885), (18, 36813), (19, 36792),

Gene: DeepSoil15\_49 Start: 36604, Stop: 36188, Start Num: 4

Candidate Starts for DeepSoil15\_49:

(1, 36790), (2, 36751), (3, 36646), (Start: 4 @36604 has 21 MA's), (5, 36589), (6, 36553), (Start: 7 @36478 has 1 MA's), (8, 36439), (9, 36427), (10, 36424), (12, 36367), (13, 36337), (14, 36334), (15, 36328), (16, 36304), (17, 36301), (18, 36229), (19, 36208),

Gene: Dewey\_47 Start: 36604, Stop: 36188, Start Num: 4

Candidate Starts for Dewey\_47:

(1, 36790), (2, 36751), (3, 36646), (Start: 4 @36604 has 21 MA's), (5, 36589), (6, 36553), (Start: 7 @36478 has 1 MA's), (8, 36439), (9, 36427), (10, 36424), (12, 36367), (13, 36337), (14, 36334), (15, 36328), (16, 36304), (17, 36301), (18, 36229), (19, 36208),

Gene: Ein37\_49 Start: 36478, Stop: 36188, Start Num: 7

Candidate Starts for Ein37\_49:

(1, 36790), (2, 36751), (3, 36646), (Start: 4 @36604 has 21 MA's), (5, 36589), (6, 36553), (Start: 7 @36478 has 1 MA's), (8, 36439), (9, 36427), (10, 36424), (12, 36367), (13, 36337), (14, 36334), (15, 36328), (16, 36304), (17, 36301), (18, 36229), (19, 36208),

Gene: Evanesce\_48 Start: 36604, Stop: 36188, Start Num: 4

Candidate Starts for Evanesce\_48:

(1, 36790), (2, 36751), (3, 36646), (Start: 4 @36604 has 21 MA's), (5, 36589), (6, 36553), (Start: 7 @36478 has 1 MA's), (8, 36439), (9, 36427), (10, 36424), (12, 36367), (13, 36337), (14, 36334), (15, 36328), (16, 36304), (17, 36301), (18, 36229), (19, 36208),

Gene: Forge\_47 Start: 36604, Stop: 36188, Start Num: 4

Candidate Starts for Forge\_47:

(1, 36790), (2, 36751), (3, 36646), (Start: 4 @36604 has 21 MA's), (5, 36589), (6, 36553), (Start: 7 @36478 has 1 MA's), (8, 36439), (9, 36427), (10, 36424), (12, 36367), (13, 36337), (14, 36334), (15, 36328), (16, 36304), (17, 36301), (18, 36229), (19, 36208),

Gene: Gancho\_48 Start: 36327, Stop: 35911, Start Num: 4

Candidate Starts for Gancho\_48:

(2, 36474), (3, 36369), (Start: 4 @36327 has 21 MA's), (5, 36312), (6, 36276), (Start: 7 @36201 has 1 MA's), (8, 36162), (9, 36150), (10, 36147), (12, 36090), (13, 36060), (14, 36057), (15, 36051), (16, 36027), (17, 36024), (18, 35952), (19, 35931),

Gene: Giles\_47 Start: 36604, Stop: 36188, Start Num: 4

Candidate Starts for Giles\_47:

(1, 36790), (2, 36751), (3, 36646), (Start: 4 @36604 has 21 MA's), (5, 36589), (6, 36553), (Start: 7 @36478 has 1 MA's), (8, 36439), (9, 36427), (10, 36424), (12, 36367), (13, 36337), (14, 36334), (15, 36328), (16, 36304), (17, 36301), (18, 36229), (19, 36208),

Gene: Gravaillia\_48 Start: 36598, Stop: 36182, Start Num: 4

Candidate Starts for Gravaillia\_48:

(Start: 4 @36598 has 21 MA's), (6, 36547), (Start: 7 @36472 has 1 MA's), (8, 36433), (9, 36421), (10, 36418), (11, 36406), (12, 36361), (13, 36331), (14, 36328), (15, 36322), (16, 36298), (17, 36295), (18, 36223), (19, 36202),

Gene: HH92\_48 Start: 36604, Stop: 36188, Start Num: 4

Candidate Starts for HH92\_48:

(1, 36790), (2, 36751), (3, 36646), (Start: 4 @36604 has 21 MA's), (5, 36589), (6, 36553), (Start: 7 @36478 has 1 MA's), (8, 36439), (9, 36427), (10, 36424), (12, 36367), (13, 36337), (14, 36334), (15, 36328), (16, 36304), (17, 36301), (18, 36229), (19, 36208),

Gene: Hadrien\_49 Start: 36604, Stop: 36188, Start Num: 4

Candidate Starts for Hadrien\_49:

(1, 36790), (2, 36751), (3, 36646), (Start: 4 @36604 has 21 MA's), (5, 36589), (6, 36553), (Start: 7 @36478 has 1 MA's), (8, 36439), (9, 36427), (10, 36424), (12, 36367), (13, 36337), (14, 36334), (15, 36328), (16, 36304), (17, 36301), (18, 36229), (19, 36208),

Gene: Hail\_47 Start: 36604, Stop: 36188, Start Num: 4

Candidate Starts for Hail\_47:

(1, 36790), (2, 36751), (3, 36646), (Start: 4 @36604 has 21 MA's), (5, 36589), (6, 36553), (Start: 7 @36478 has 1 MA's), (8, 36439), (9, 36427), (10, 36424), (12, 36367), (13, 36337), (14, 36334), (15, 36328), (16, 36304), (17, 36301), (18, 36229), (19, 36208),

Gene: Kinbote\_49 Start: 36604, Stop: 36188, Start Num: 4

Candidate Starts for Kinbote\_49:

(1, 36790), (2, 36751), (3, 36646), (Start: 4 @36604 has 21 MA's), (5, 36589), (6, 36553), (Start: 7 @36478 has 1 MA's), (8, 36439), (9, 36427), (10, 36424), (12, 36367), (13, 36337), (14, 36334), (15, 36328), (16, 36304), (17, 36301), (18, 36229), (19, 36208),

Gene: LilHazelnut\_49 Start: 36604, Stop: 36188, Start Num: 4

Candidate Starts for LilHazelnut\_49:

(1, 36790), (2, 36751), (3, 36646), (Start: 4 @36604 has 21 MA's), (5, 36589), (6, 36553), (Start: 7 @36478 has 1 MA's), (8, 36439), (9, 36427), (10, 36424), (12, 36367), (13, 36337), (14, 36334), (15, 36328), (16, 36304), (17, 36301), (18, 36229), (19, 36208),

Gene: Luke\_49 Start: 36559, Stop: 36143, Start Num: 4

Candidate Starts for Luke\_49:

(1, 36745), (2, 36706), (3, 36601), (Start: 4 @36559 has 21 MA's), (5, 36544), (6, 36508), (Start: 7 @36433 has 1 MA's), (8, 36394), (9, 36382), (10, 36379), (12, 36322), (13, 36292), (14, 36289), (15, 36283), (16, 36259), (17, 36256), (18, 36184), (19, 36163),

Gene: Luna22\_47 Start: 36588, Stop: 36172, Start Num: 4

Candidate Starts for Luna22\_47:

(1, 36774), (2, 36735), (3, 36630), (Start: 4 @36588 has 21 MA's), (5, 36573), (6, 36537), (Start: 7 @36462 has 1 MA's), (8, 36423), (9, 36411), (10, 36408), (12, 36351), (13, 36321), (14, 36318), (15, 36312), (16, 36288), (17, 36285), (18, 36213), (19, 36192),

Gene: OBUpride\_49 Start: 36598, Stop: 36182, Start Num: 4

Candidate Starts for OBUpride\_49:

(Start: 4 @36598 has 21 MA's), (6, 36547), (Start: 7 @36472 has 1 MA's), (8, 36433), (9, 36421), (10, 36418), (11, 36406), (12, 36361), (13, 36331), (14, 36328), (15, 36322), (16, 36298), (17, 36295), (18, 36223), (19, 36202),

Gene: Ubuntu\_49 Start: 36604, Stop: 36188, Start Num: 4

Candidate Starts for Ubuntu\_49:

(1, 36790), (2, 36751), (3, 36646), (Start: 4 @36604 has 21 MA's), (5, 36589), (6, 36553), (Start: 7 @36478 has 1 MA's), (8, 36439), (9, 36427), (10, 36424), (12, 36367), (13, 36337), (14, 36334), (15, 36328), (16, 36304), (17, 36301), (18, 36229), (19, 36208),

Gene: Webster2\_49 Start: 36604, Stop: 36188, Start Num: 4

Candidate Starts for Webster2\_49:

(1, 36790), (2, 36751), (3, 36646), (Start: 4 @36604 has 21 MA's), (5, 36589), (6, 36553), (Start: 7 @36478 has 1 MA's), (8, 36439), (9, 36427), (10, 36424), (12, 36367), (13, 36337), (14, 36334), (15, 36328), (16, 36304), (17, 36301), (18, 36229), (19, 36208),

Gene: Wishmaker\_47 Start: 36604, Stop: 36188, Start Num: 4

Candidate Starts for Wishmaker\_47:

(1, 36790), (2, 36751), (3, 36646), (Start: 4 @36604 has 21 MA's), (5, 36589), (6, 36553), (Start: 7 @36478 has 1 MA's), (8, 36439), (9, 36427), (10, 36424), (12, 36367), (13, 36337), (14, 36334), (15, 36328), (16, 36304), (17, 36301), (18, 36229), (19, 36208),