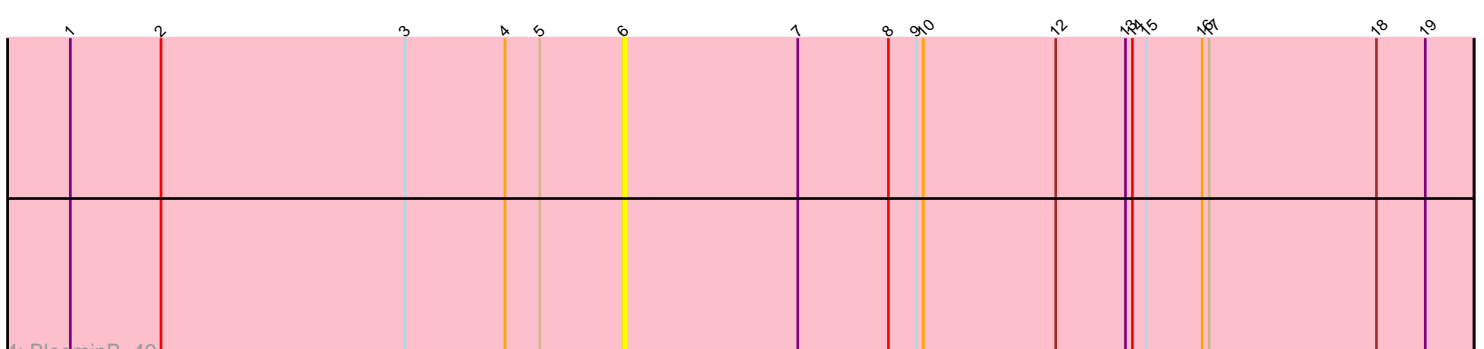
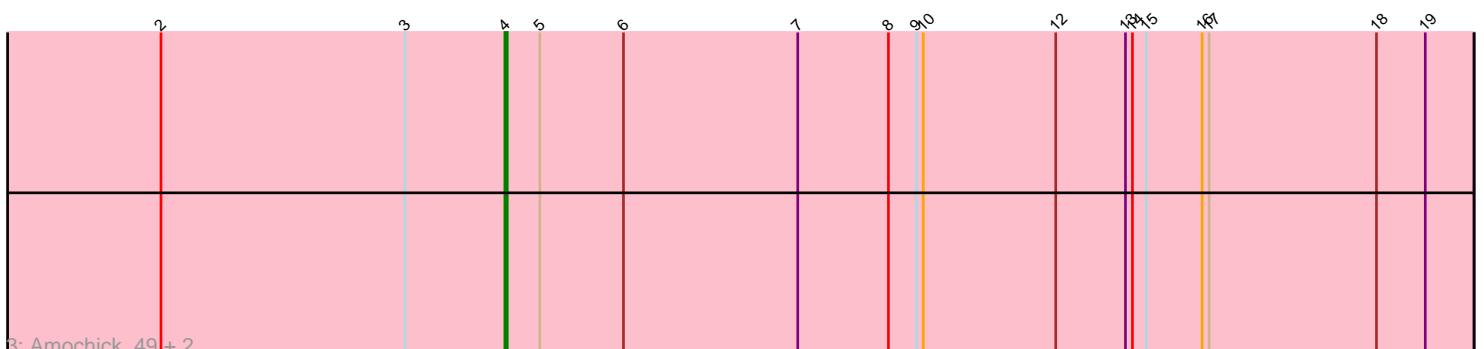
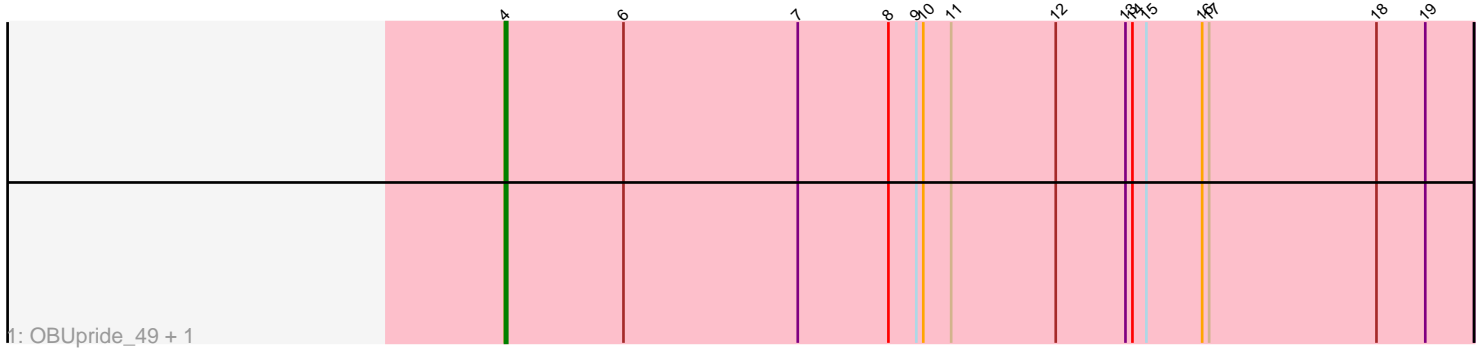


Pham 301738



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 301738 Report

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

Pham number 301738 has 22 members, 1 are drafts.

Phages represented in each track:

- Track 1 : OBUpride_49, Gravaillia_48
- Track 2 : 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 3 : Amochick_49, Gancho_48, Daegal_51
- Track 4 : 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 21 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,

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

-

Summary by start number:

Start 4:

- Found in 22 of 22 (100.0%) of genes in pham
- Manual Annotations of this start: 21 of 21
- Called 95.5% 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 22 of 22 (100.0%) of genes in pham
- No Manual Annotations of this start.
- Called 4.5% of time when present
- Phage (with cluster) where this start called: BloominB_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.

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), (7, 36484), (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), (7, 36478), (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), (7, 36478), (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), (7, 37062), (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), (7, 36478), (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), (7, 36478), (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), (7, 36478), (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), (7, 36478), (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), (7, 36201), (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), (7, 36478), (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), (7, 36472), (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), (7, 36478), (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), (7, 36478), (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), (7, 36478), (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), (7, 36478), (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), (7, 36478), (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), (7, 36433), (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), (7, 36462), (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), (7, 36472), (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), (7, 36478), (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), (7, 36478), (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), (7, 36478), (8, 36439), (9, 36427), (10, 36424), (12, 36367), (13, 36337), (14, 36334), (15, 36328), (16, 36304), (17, 36301), (18, 36229), (19, 36208),