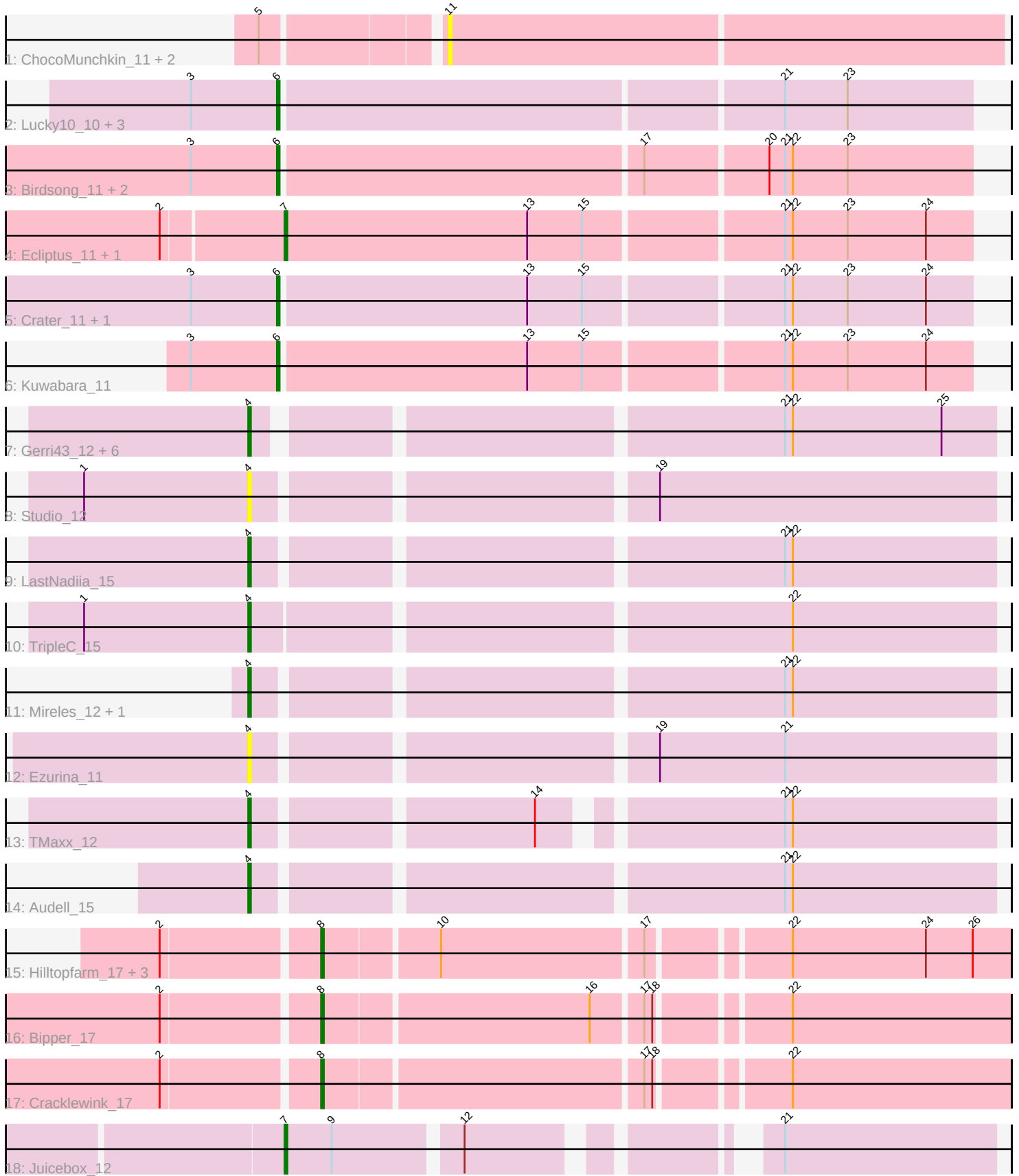


Pham 331040



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 331040 Report

This analysis was run 09/05/26 on database version 662.

Pham number 331040 has 37 members, 9 are drafts.

Phages represented in each track:

- Track 1 : ChocoMunchkin_11, CanesSauce_11, CaramelLatte_11
- Track 2 : Lucky10_10, PhorbesPhlower_10, Morkie_10, InLimbo_11
- Track 3 : Birdsong_11, BearBQ_11, MortyNRick_11
- Track 4 : Ecliptus_11, ODay_11
- Track 5 : Crater_11, Apricot_11
- Track 6 : Kuwabara_11
- Track 7 : Gerri43_12, ChamoyPickle_12, Roberts_12, Neuville_12, AnnabelLee_12, ChipsNGuac_12, CardboardBox_12
- Track 8 : Studio_12
- Track 9 : LastNadiia_15
- Track 10 : TripleC_15
- Track 11 : Mireles_12, Makima_13
- Track 12 : Ezurina_11
- Track 13 : TMaxx_12
- Track 14 : Audell_15
- Track 15 : Hilltopfarm_17, Faiyaz_17, Typha_17, AuntGwenStacy_17
- Track 16 : Bipper_17
- Track 17 : Cracklewink_17
- Track 18 : Juicebox_12

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 10 of the 28 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AnnabelLee_12, Audell_15, CardboardBox_12, ChamoyPickle_12, ChipsNGuac_12, Ezurina_11, Gerri43_12, LastNadiia_15, Makima_13, Mireles_12, Neuville_12, Roberts_12, Studio_12, TMaxx_12, TripleC_15,

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

-

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

- Apricot_11, AuntGwenStacy_17, BearBQ_11, Bipper_17, Birdsong_11, CanesSauce_11, CaramelLatte_11, ChocoMunchkin_11, Cracklewink_17, Crater_11, Ecliptus_11, Faiyaz_17, Hilltopfarm_17, InLimbo_11, Juicebox_12, Kuwabara_11, Lucky10_10, Morkie_10, MortyNRick_11, ODay_11, PhorbesPhlower_10, Typha_17,

Summary by start number:

Start 4:

- Found in 15 of 37 (40.5%) of genes in pham
- Manual Annotations of this start: 10 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AnnabelLee_12 (FR), Audell_15 (FR), CardboardBox_12 (FR), ChamoyPickle_12 (FR), ChipsNGuac_12 (FR), Ezurina_11 (FR), Gerri43_12 (FR), LastNadiia_15 (FR), Makima_13 (FR), Mireles_12 (FR), Neuville_12 (FR), Roberts_12 (FR), Studio_12 (FR), TMaxx_12 (FR), TripleC_15 (FR),

Start 6:

- Found in 10 of 37 (27.0%) of genes in pham
- Manual Annotations of this start: 9 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Apricot_11 (DN3), BearBQ_11 (DN), Birdsong_11 (DN), Crater_11 (DN3), InLimbo_11 (DH), Kuwabara_11 (DN4), Lucky10_10 (DH), Morkie_10 (DH), MortyNRick_11 (DN), PhorbesPhlower_10 (DH),

Start 7:

- Found in 3 of 37 (8.1%) of genes in pham
- Manual Annotations of this start: 3 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ecliptus_11 (DN), Juicebox_12 (singleton), ODay_11 (DN),

Start 8:

- Found in 6 of 37 (16.2%) of genes in pham
- Manual Annotations of this start: 6 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AuntGwenStacy_17 (Y), Bipper_17 (Y), Cracklewink_17 (Y), Faiyaz_17 (Y), Hilltopfarm_17 (Y), Typha_17 (Y),

Start 11:

- Found in 3 of 37 (8.1%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CanesSauce_11 (CT), CaramelLatte_11 (CT), ChocoMunchkin_11 (CT),

Summary by clusters:

There are 8 clusters represented in this pham: DN, FR, DH, singleton, DN4, DN3, Y, CT,

Info for manual annotations of cluster DH:

- Start number 6 was manually annotated 3 times for cluster DH.

Info for manual annotations of cluster DN:

- Start number 6 was manually annotated 3 times for cluster DN.
- Start number 7 was manually annotated 2 times for cluster DN.

Info for manual annotations of cluster DN3:

- Start number 6 was manually annotated 2 times for cluster DN3.

Info for manual annotations of cluster DN4:

- Start number 6 was manually annotated 1 time for cluster DN4.

Info for manual annotations of cluster FR:

- Start number 4 was manually annotated 10 times for cluster FR.

Info for manual annotations of cluster Y:

- Start number 8 was manually annotated 6 times for cluster Y.

Gene Information:

Gene: AnnabelLee_12 Start: 7464, Stop: 7730, Start Num: 4

Candidate Starts for AnnabelLee_12:

(Start: 4 @7464 has 10 MA's), (21, 7650), (22, 7653), (25, 7710),

Gene: Apricot_11 Start: 7129, Stop: 7386, Start Num: 6

Candidate Starts for Apricot_11:

(3, 7096), (Start: 6 @7129 has 9 MA's), (13, 7222), (15, 7243), (21, 7315), (22, 7318), (23, 7339), (24, 7369),

Gene: Audell_15 Start: 10801, Stop: 11070, Start Num: 4

Candidate Starts for Audell_15:

(Start: 4 @10801 has 10 MA's), (21, 10990), (22, 10993),

Gene: AuntGwenStacy_17 Start: 11749, Stop: 11997, Start Num: 8

Candidate Starts for AuntGwenStacy_17:

(2, 11692), (Start: 8 @11749 has 6 MA's), (10, 11791), (17, 11866), (22, 11914), (24, 11965), (26, 11983),

Gene: BearBQ_11 Start: 7129, Stop: 7386, Start Num: 6

Candidate Starts for BearBQ_11:

(3, 7096), (Start: 6 @7129 has 9 MA's), (17, 7264), (20, 7309), (21, 7315), (22, 7318), (23, 7339),

Gene: Bipper_17 Start: 11835, Stop: 12083, Start Num: 8

Candidate Starts for Bipper_17:

(2, 11778), (Start: 8 @11835 has 6 MA's), (16, 11934), (17, 11952), (18, 11955), (22, 12000),

Gene: Birdsong_11 Start: 7129, Stop: 7386, Start Num: 6

Candidate Starts for Birdsong_11:

(3, 7096), (Start: 6 @7129 has 9 MA's), (17, 7264), (20, 7309), (21, 7315), (22, 7318), (23, 7339),

Gene: CanesSauce_11 Start: 7339, Stop: 7548, Start Num: 11

Candidate Starts for CanesSauce_11:

(5, 7276), (11, 7339),

Gene: CaramellLatte_11 Start: 7339, Stop: 7548, Start Num: 11

Candidate Starts for CaramellLatte_11:

(5, 7276), (11, 7339),

Gene: CardboardBox_12 Start: 7464, Stop: 7730, Start Num: 4

Candidate Starts for CardboardBox_12:

(Start: 4 @7464 has 10 MA's), (21, 7650), (22, 7653), (25, 7710),

Gene: ChamoyPickle_12 Start: 7464, Stop: 7730, Start Num: 4

Candidate Starts for ChamoyPickle_12:

(Start: 4 @7464 has 10 MA's), (21, 7650), (22, 7653), (25, 7710),

Gene: ChipsNGuac_12 Start: 7464, Stop: 7730, Start Num: 4

Candidate Starts for ChipsNGuac_12:

(Start: 4 @7464 has 10 MA's), (21, 7650), (22, 7653), (25, 7710),

Gene: ChocoMunchkin_11 Start: 7339, Stop: 7548, Start Num: 11

Candidate Starts for ChocoMunchkin_11:

(5, 7276), (11, 7339),

Gene: Cracklewink_17 Start: 11835, Stop: 12083, Start Num: 8

Candidate Starts for Cracklewink_17:

(2, 11778), (Start: 8 @11835 has 6 MA's), (17, 11952), (18, 11955), (22, 12000),

Gene: Crater_11 Start: 7129, Stop: 7386, Start Num: 6

Candidate Starts for Crater_11:

(3, 7096), (Start: 6 @7129 has 9 MA's), (13, 7222), (15, 7243), (21, 7315), (22, 7318), (23, 7339), (24, 7369),

Gene: Ecliptus_11 Start: 6857, Stop: 7114, Start Num: 7

Candidate Starts for Ecliptus_11:

(2, 6812), (Start: 7 @6857 has 3 MA's), (13, 6950), (15, 6971), (21, 7043), (22, 7046), (23, 7067), (24, 7097),

Gene: Ezurina_11 Start: 7029, Stop: 7298, Start Num: 4

Candidate Starts for Ezurina_11:

(Start: 4 @7029 has 10 MA's), (19, 7170), (21, 7218),

Gene: Faiyaz_17 Start: 11749, Stop: 11997, Start Num: 8

Candidate Starts for Faiyaz_17:

(2, 11692), (Start: 8 @11749 has 6 MA's), (10, 11791), (17, 11866), (22, 11914), (24, 11965), (26, 11983),

Gene: Gerri43_12 Start: 7464, Stop: 7730, Start Num: 4

Candidate Starts for Gerri43_12:

(Start: 4 @7464 has 10 MA's), (21, 7650), (22, 7653), (25, 7710),

Gene: Hilltopfarm_17 Start: 11779, Stop: 12027, Start Num: 8

Candidate Starts for Hilltopfarm_17:

(2, 11722), (Start: 8 @11779 has 6 MA's), (10, 11821), (17, 11896), (22, 11944), (24, 11995), (26, 12013),

Gene: InLimbo_11 Start: 6300, Stop: 6557, Start Num: 6

Candidate Starts for InLimbo_11:

(3, 6267), (Start: 6 @6300 has 9 MA's), (21, 6486), (23, 6510),

Gene: Juicebox_12 Start: 8597, Stop: 8833, Start Num: 7

Candidate Starts for Juicebox_12:

(Start: 7 @8597 has 3 MA's), (9, 8615), (12, 8660), (21, 8753),

Gene: Kuwabara_11 Start: 7129, Stop: 7386, Start Num: 6

Candidate Starts for Kuwabara_11:

(3, 7096), (Start: 6 @7129 has 9 MA's), (13, 7222), (15, 7243), (21, 7315), (22, 7318), (23, 7339), (24, 7369),

Gene: LastNadiia_15 Start: 9753, Stop: 10022, Start Num: 4

Candidate Starts for LastNadiia_15:

(Start: 4 @9753 has 10 MA's), (21, 9942), (22, 9945),

Gene: Lucky10_10 Start: 6338, Stop: 6595, Start Num: 6

Candidate Starts for Lucky10_10:

(3, 6305), (Start: 6 @6338 has 9 MA's), (21, 6524), (23, 6548),

Gene: Makima_13 Start: 8837, Stop: 9106, Start Num: 4

Candidate Starts for Makima_13:

(Start: 4 @8837 has 10 MA's), (21, 9026), (22, 9029),

Gene: Mireles_12 Start: 7233, Stop: 7502, Start Num: 4

Candidate Starts for Mireles_12:

(Start: 4 @7233 has 10 MA's), (21, 7422), (22, 7425),

Gene: Morkie_10 Start: 6300, Stop: 6557, Start Num: 6

Candidate Starts for Morkie_10:

(3, 6267), (Start: 6 @6300 has 9 MA's), (21, 6486), (23, 6510),

Gene: MortyNRick_11 Start: 7129, Stop: 7386, Start Num: 6

Candidate Starts for MortyNRick_11:

(3, 7096), (Start: 6 @7129 has 9 MA's), (17, 7264), (20, 7309), (21, 7315), (22, 7318), (23, 7339),

Gene: Neuville_12 Start: 7464, Stop: 7730, Start Num: 4

Candidate Starts for Neuville_12:

(Start: 4 @7464 has 10 MA's), (21, 7650), (22, 7653), (25, 7710),

Gene: ODay_11 Start: 6855, Stop: 7112, Start Num: 7

Candidate Starts for ODay_11:

(2, 6810), (Start: 7 @6855 has 3 MA's), (13, 6948), (15, 6969), (21, 7041), (22, 7044), (23, 7065), (24, 7095),

Gene: PhorbesPhlower_10 Start: 6300, Stop: 6557, Start Num: 6

Candidate Starts for PhorbesPhlower_10:

(3, 6267), (Start: 6 @6300 has 9 MA's), (21, 6486), (23, 6510),

Gene: Roberts_12 Start: 7464, Stop: 7730, Start Num: 4

Candidate Starts for Roberts_12:

(Start: 4 @7464 has 10 MA's), (21, 7650), (22, 7653), (25, 7710),

Gene: Studio_12 Start: 7220, Stop: 7489, Start Num: 4

Candidate Starts for Studio_12:

(1, 7157), (Start: 4 @7220 has 10 MA's), (19, 7361),

Gene: TMaxx_12 Start: 7340, Stop: 7600, Start Num: 4

Candidate Starts for TMaxx_12:

(Start: 4 @7340 has 10 MA's), (14, 7439), (21, 7520), (22, 7523),

Gene: TripleC_15 Start: 10834, Stop: 11106, Start Num: 4

Candidate Starts for TripleC_15:

(1, 10771), (Start: 4 @10834 has 10 MA's), (22, 11029),

Gene: Typha_17 Start: 11749, Stop: 11997, Start Num: 8

Candidate Starts for Typha_17:

(2, 11692), (Start: 8 @11749 has 6 MA's), (10, 11791), (17, 11866), (22, 11914), (24, 11965), (26, 11983),