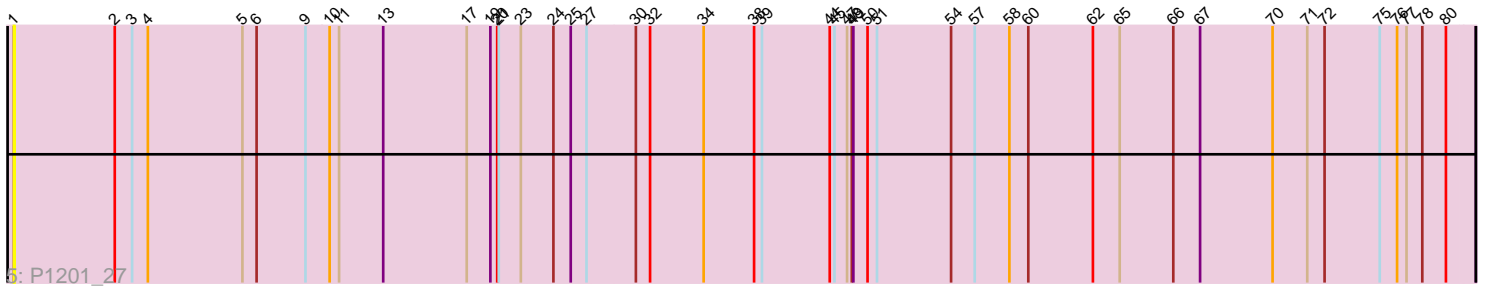
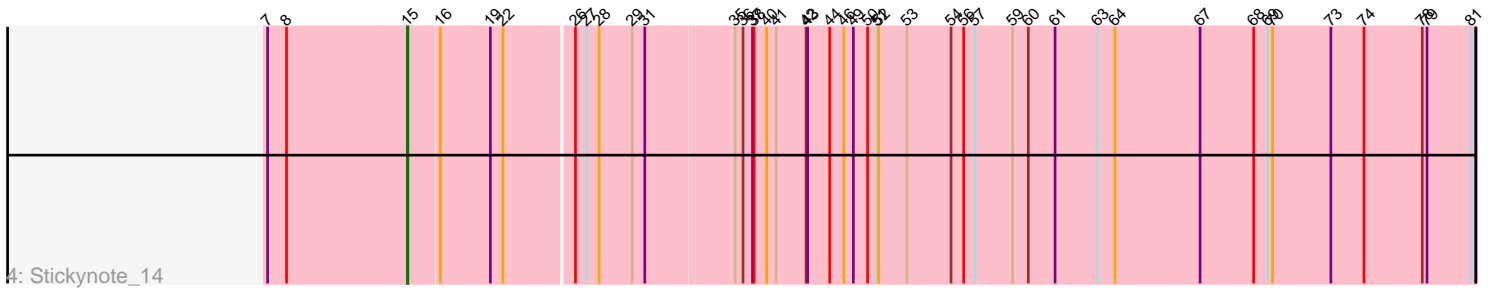
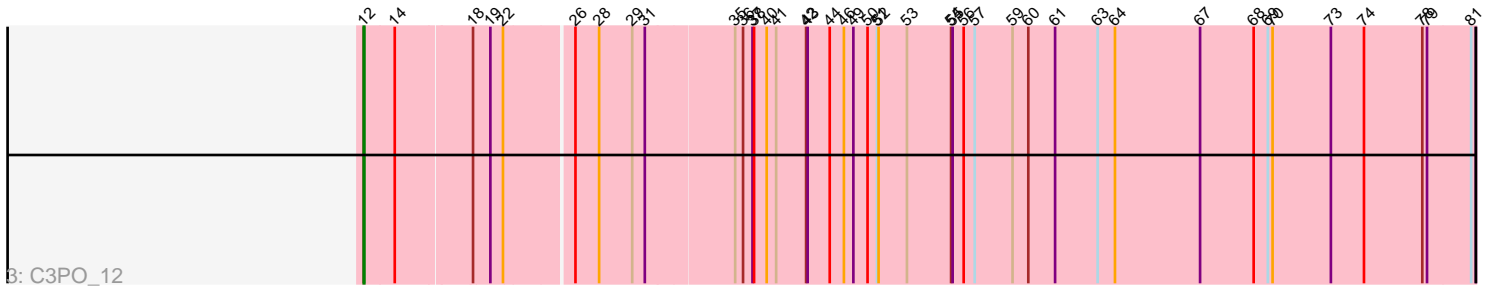
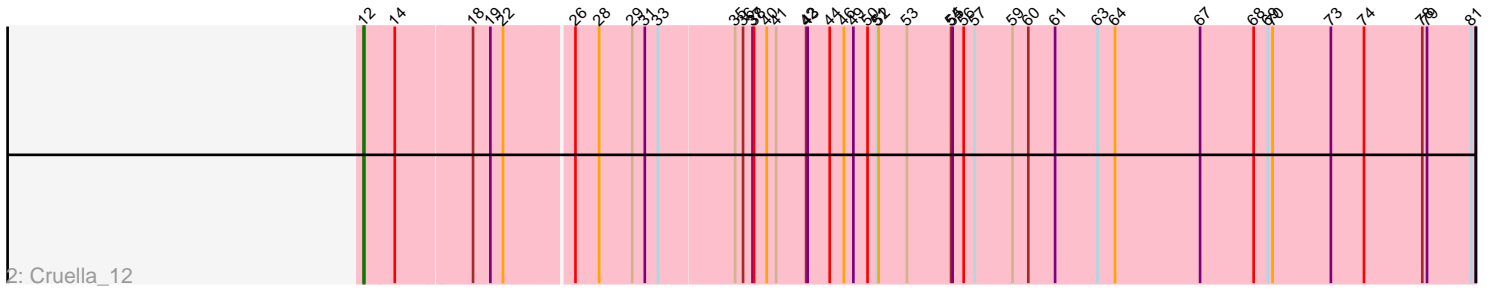
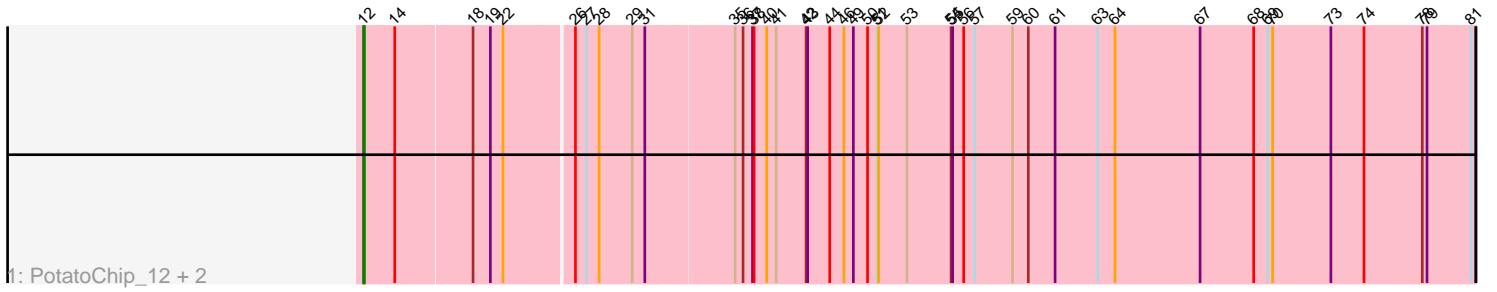


# Pham 225222



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 225222 Report

This analysis was run 03/28/25 on database version 593.

Pham number 225222 has 7 members, 1 are drafts.

Phages represented in each track:

- Track 1 : PotatoChip\_12, Zion\_12, PeteyPab\_12
- Track 2 : Cruella\_12
- Track 3 : C3PO\_12
- Track 4 : Stickynote\_14
- Track 5 : P1201\_27

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

The start number called the most often in the published annotations is 12, it was called in 5 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- C3PO\_12, Cruella\_12, PeteyPab\_12, PotatoChip\_12, Zion\_12,

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

- 

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

- P1201\_27, Stickynote\_14,

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

Start 1:

- Found in 1 of 7 ( 14.3% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: P1201\_27 (singleton),

Start 12:

- Found in 5 of 7 ( 71.4% ) of genes in pham
- Manual Annotations of this start: 5 of 6
- Called 100.0% of time when present
- Phage (with cluster) where this start called: C3PO\_12 (EN), Cruella\_12 (EN), PeteyPab\_12 (EN), PotatoChip\_12 (EN), Zion\_12 (EN),

Start 15:

- Found in 1 of 7 ( 14.3% ) of genes in pham
- Manual Annotations of this start: 1 of 6
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Stickynote\_14 (EN),

### Summary by clusters:

There are 2 clusters represented in this pham: singleton, EN,

Info for manual annotations of cluster EN:

- Start number 12 was manually annotated 5 times for cluster EN.
- Start number 15 was manually annotated 1 time for cluster EN.

### Gene Information:

Gene: C3PO\_12 Start: 6699, Stop: 8765, Start Num: 12

Candidate Starts for C3PO\_12:

(Start: 12 @6699 has 5 MA's), (14, 6756), (18, 6894), (19, 6924), (22, 6948), (26, 7065), (28, 7110), (29, 7173), (31, 7197), (35, 7359), (36, 7374), (37, 7392), (38, 7395), (40, 7419), (41, 7437), (42, 7494), (43, 7497), (44, 7539), (46, 7566), (49, 7584), (50, 7611), (51, 7629), (52, 7632), (53, 7686), (54, 7770), (55, 7773), (56, 7794), (57, 7815), (59, 7887), (60, 7917), (61, 7968), (63, 8049), (64, 8082), (67, 8244), (68, 8346), (69, 8373), (70, 8382), (73, 8493), (74, 8556), (78, 8667), (79, 8676), (81, 8757),

Gene: Cruella\_12 Start: 6699, Stop: 8765, Start Num: 12

Candidate Starts for Cruella\_12:

(Start: 12 @6699 has 5 MA's), (14, 6756), (18, 6894), (19, 6924), (22, 6948), (26, 7065), (28, 7110), (29, 7173), (31, 7197), (33, 7221), (35, 7359), (36, 7374), (37, 7392), (38, 7395), (40, 7419), (41, 7437), (42, 7494), (43, 7497), (44, 7539), (46, 7566), (49, 7584), (50, 7611), (51, 7629), (52, 7632), (53, 7686), (54, 7770), (55, 7773), (56, 7794), (57, 7815), (59, 7887), (60, 7917), (61, 7968), (63, 8049), (64, 8082), (67, 8244), (68, 8346), (69, 8373), (70, 8382), (73, 8493), (74, 8556), (78, 8667), (79, 8676), (81, 8757),

Gene: P1201\_27 Start: 12800, Stop: 15562, Start Num: 1

Candidate Starts for P1201\_27:

(1, 12800), (2, 12992), (3, 13025), (4, 13055), (5, 13235), (6, 13262), (9, 13355), (10, 13400), (11, 13418), (13, 13502), (17, 13661), (19, 13706), (20, 13718), (21, 13721), (23, 13763), (24, 13823), (25, 13856), (27, 13886), (30, 13973), (32, 14000), (34, 14102), (38, 14198), (39, 14213), (44, 14342), (45, 14351), (47, 14375), (48, 14384), (49, 14387), (50, 14411), (51, 14429), (54, 14570), (57, 14615), (58, 14681), (60, 14717), (62, 14840), (65, 14891), (66, 14993), (67, 15044), (70, 15182), (71, 15248), (72, 15281), (75, 15386), (76, 15419), (77, 15437), (78, 15467), (80, 15512),

Gene: PeteyPab\_12 Start: 6676, Stop: 8742, Start Num: 12

Candidate Starts for PeteyPab\_12:

(Start: 12 @6676 has 5 MA's), (14, 6733), (18, 6871), (19, 6901), (22, 6925), (26, 7042), (27, 7063), (28, 7087), (29, 7150), (31, 7174), (35, 7336), (36, 7351), (37, 7369), (38, 7372), (40, 7396), (41, 7414), (42, 7471), (43, 7474), (44, 7516), (46, 7543), (49, 7561), (50, 7588), (51, 7606), (52, 7609), (53, 7663), (54, 7747), (55, 7750), (56, 7771), (57, 7792), (59, 7864), (60, 7894), (61, 7945), (63, 8026), (64, 8059), (67, 8221), (68, 8323), (69, 8350), (70, 8359), (73, 8470), (74, 8533), (78, 8644), (79, 8653), (81, 8734),

Gene: PotatoChip\_12 Start: 6678, Stop: 8744, Start Num: 12

Candidate Starts for PotatoChip\_12:

(Start: 12 @6678 has 5 MA's), (14, 6735), (18, 6873), (19, 6903), (22, 6927), (26, 7044), (27, 7065), (28, 7089), (29, 7152), (31, 7176), (35, 7338), (36, 7353), (37, 7371), (38, 7374), (40, 7398), (41, 7416), (42, 7473), (43, 7476), (44, 7518), (46, 7545), (49, 7563), (50, 7590), (51, 7608), (52, 7611), (53, 7665), (54, 7749), (55, 7752), (56, 7773), (57, 7794), (59, 7866), (60, 7896), (61, 7947), (63, 8028), (64, 8061), (67, 8223), (68, 8325), (69, 8352), (70, 8361), (73, 8472), (74, 8535), (78, 8646), (79, 8655), (81, 8736),

Gene: Stickynote\_14 Start: 7569, Stop: 9554, Start Num: 15

Candidate Starts for Stickynote\_14:

(7, 7305), (8, 7341), (Start: 15 @7569 has 1 MA's), (16, 7623), (19, 7713), (22, 7737), (26, 7854), (27, 7875), (28, 7899), (29, 7962), (31, 7986), (35, 8148), (36, 8163), (37, 8181), (38, 8184), (40, 8208), (41, 8226), (42, 8283), (43, 8286), (44, 8328), (46, 8355), (49, 8373), (50, 8400), (51, 8418), (52, 8421), (53, 8475), (54, 8559), (56, 8583), (57, 8604), (59, 8676), (60, 8706), (61, 8757), (63, 8838), (64, 8871), (67, 9033), (68, 9135), (69, 9162), (70, 9171), (73, 9282), (74, 9345), (78, 9456), (79, 9465), (81, 9546),

Gene: Zion\_12 Start: 6676, Stop: 8742, Start Num: 12

Candidate Starts for Zion\_12:

(Start: 12 @6676 has 5 MA's), (14, 6733), (18, 6871), (19, 6901), (22, 6925), (26, 7042), (27, 7063), (28, 7087), (29, 7150), (31, 7174), (35, 7336), (36, 7351), (37, 7369), (38, 7372), (40, 7396), (41, 7414), (42, 7471), (43, 7474), (44, 7516), (46, 7543), (49, 7561), (50, 7588), (51, 7606), (52, 7609), (53, 7663), (54, 7747), (55, 7750), (56, 7771), (57, 7792), (59, 7864), (60, 7894), (61, 7945), (63, 8026), (64, 8059), (67, 8221), (68, 8323), (69, 8350), (70, 8359), (73, 8470), (74, 8533), (78, 8644), (79, 8653), (81, 8734),