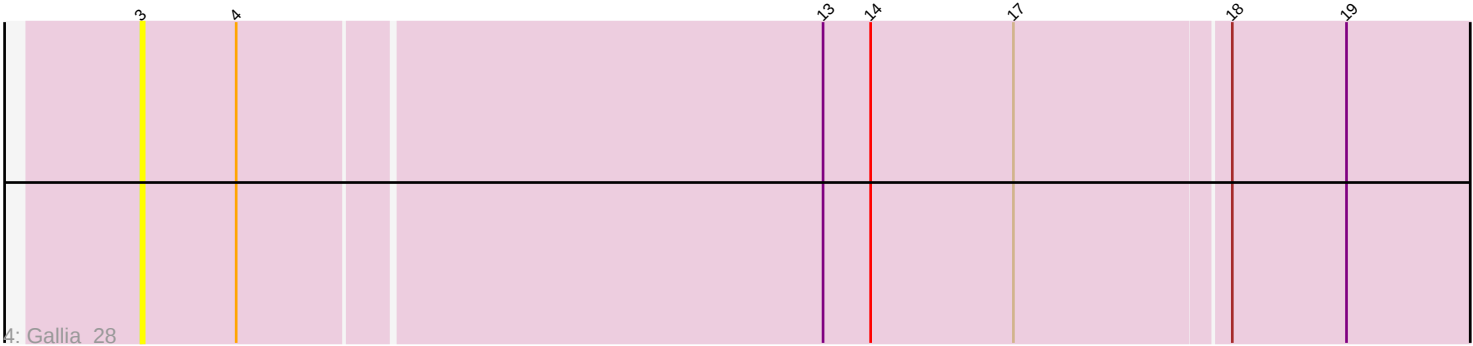
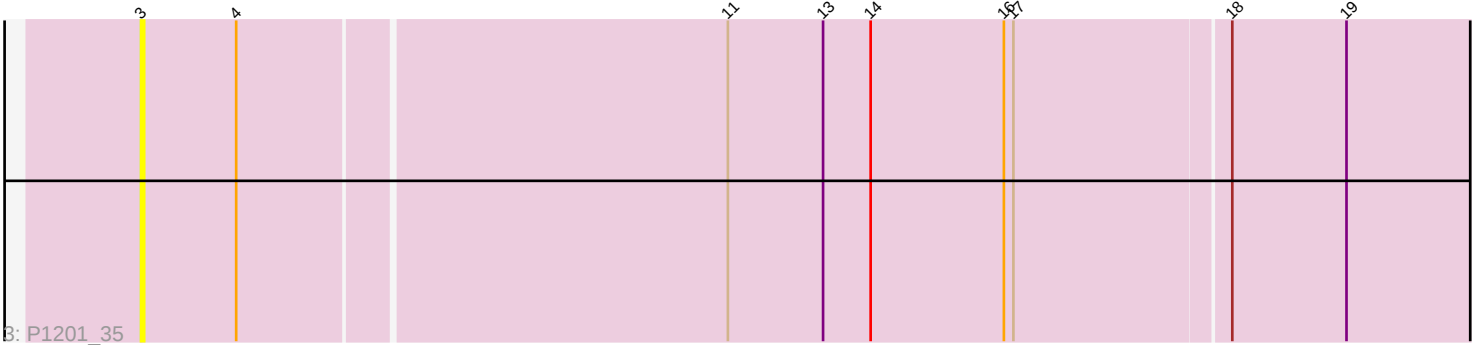
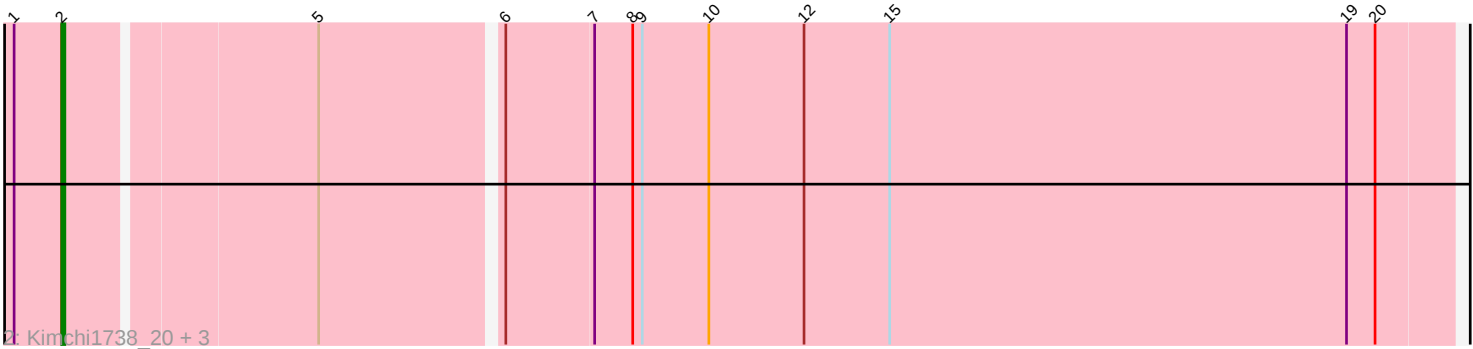
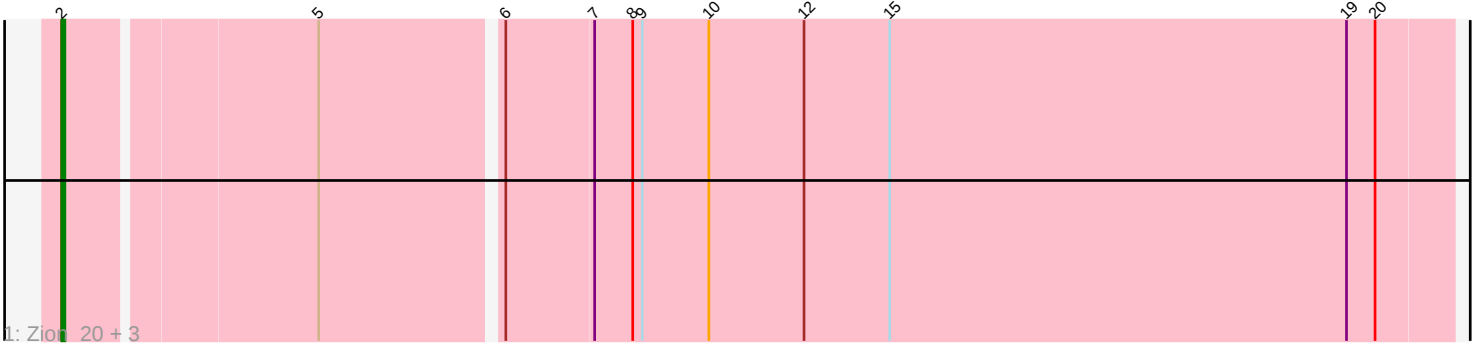




Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly 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 309771 Report

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

Pham number 309771 has 10 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Zion_20, Darwin_23, PeteyPab_19, PotatoChip_20
- Track 2 : Kimchi1738_20, C3PO_20, Cruella_20, Stickynote_22
- Track 3 : P1201_35
- Track 4 : Gallia_28

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

The start number called the most often in the published annotations is 2, it was called in 8 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- C3PO_20, Cruella_20, Darwin_23, Kimchi1738_20, PeteyPab_19, PotatoChip_20, Stickynote_22, Zion_20,

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

-

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

- Gallia_28, P1201_35,

Summary by start number:

Start 2:

- Found in 8 of 10 (80.0%) of genes in pham
- Manual Annotations of this start: 8 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: C3PO_20 (EN), Cruella_20 (EN), Darwin_23 (EN), Kimchi1738_20 (EN), PeteyPab_19 (EN), PotatoChip_20 (EN), Stickynote_22 (EN), Zion_20 (EN),

Start 3:

- Found in 2 of 10 (20.0%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Gallia_28 (singleton), P1201_35 (singleton),

Summary by clusters:

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

Info for manual annotations of cluster EN:

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

Gene Information:

Gene: C3PO_20 Start: 14548, Stop: 14973, Start Num: 2

Candidate Starts for C3PO_20:

(1, 14533), (Start: 2 @14548 has 8 MA's), (5, 14623), (6, 14677), (7, 14704), (8, 14716), (9, 14719), (10, 14740), (12, 14770), (15, 14797), (19, 14941), (20, 14950),

Gene: Cruella_20 Start: 14548, Stop: 14973, Start Num: 2

Candidate Starts for Cruella_20:

(1, 14533), (Start: 2 @14548 has 8 MA's), (5, 14623), (6, 14677), (7, 14704), (8, 14716), (9, 14719), (10, 14740), (12, 14770), (15, 14797), (19, 14941), (20, 14950),

Gene: Darwin_23 Start: 15293, Stop: 15718, Start Num: 2

Candidate Starts for Darwin_23:

(Start: 2 @15293 has 8 MA's), (5, 15368), (6, 15422), (7, 15449), (8, 15461), (9, 15464), (10, 15485), (12, 15515), (15, 15542), (19, 15686), (20, 15695),

Gene: Gallia_28 Start: 18252, Stop: 18668, Start Num: 3

Candidate Starts for Gallia_28:

(3, 18252), (4, 18282), (13, 18462), (14, 18477), (17, 18522), (18, 18588), (19, 18624),

Gene: Kimchi1738_20 Start: 14146, Stop: 14571, Start Num: 2

Candidate Starts for Kimchi1738_20:

(1, 14131), (Start: 2 @14146 has 8 MA's), (5, 14221), (6, 14275), (7, 14302), (8, 14314), (9, 14317), (10, 14338), (12, 14368), (15, 14395), (19, 14539), (20, 14548),

Gene: P1201_35 Start: 21437, Stop: 21853, Start Num: 3

Candidate Starts for P1201_35:

(3, 21437), (4, 21467), (11, 21617), (13, 21647), (14, 21662), (16, 21704), (17, 21707), (18, 21773), (19, 21809),

Gene: PeteyPab_19 Start: 14513, Stop: 14938, Start Num: 2

Candidate Starts for PeteyPab_19:

(Start: 2 @14513 has 8 MA's), (5, 14588), (6, 14642), (7, 14669), (8, 14681), (9, 14684), (10, 14705), (12, 14735), (15, 14762), (19, 14906), (20, 14915),

Gene: PotatoChip_20 Start: 14515, Stop: 14940, Start Num: 2

Candidate Starts for PotatoChip_20:

(Start: 2 @14515 has 8 MA's), (5, 14590), (6, 14644), (7, 14671), (8, 14683), (9, 14686), (10, 14707), (12, 14737), (15, 14764), (19, 14908), (20, 14917),

Gene: Stickynote_22 Start: 15325, Stop: 15750, Start Num: 2

Candidate Starts for Stickynote_22:

(1, 15310), (Start: 2 @15325 has 8 MA's), (5, 15400), (6, 15454), (7, 15481), (8, 15493), (9, 15496),
(10, 15517), (12, 15547), (15, 15574), (19, 15718), (20, 15727),

Gene: Zion_20 Start: 14513, Stop: 14938, Start Num: 2

Candidate Starts for Zion_20:

(Start: 2 @14513 has 8 MA's), (5, 14588), (6, 14642), (7, 14669), (8, 14681), (9, 14684), (10, 14705),
(12, 14735), (15, 14762), (19, 14906), (20, 14915),