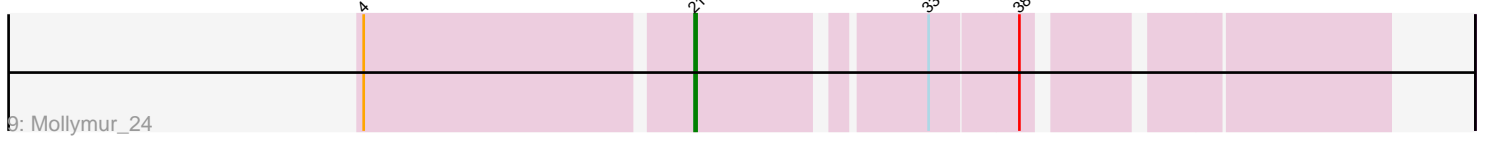
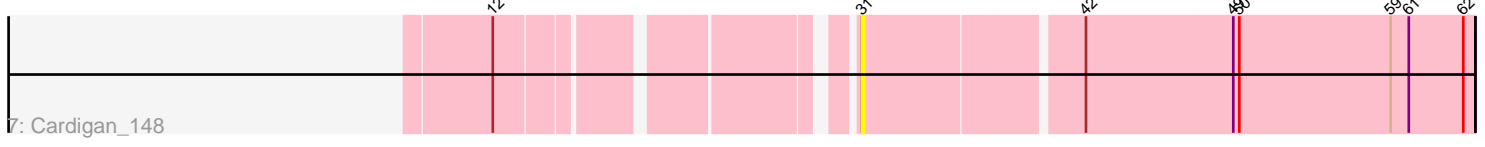
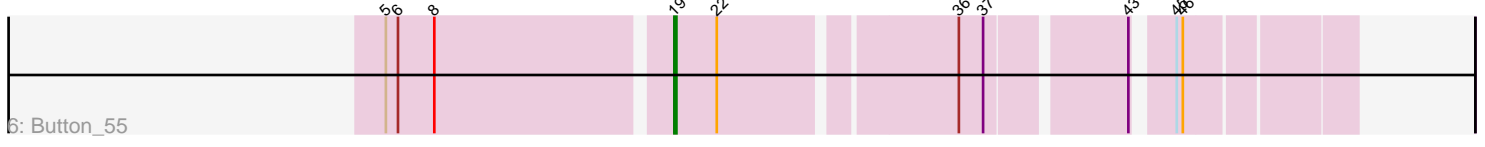
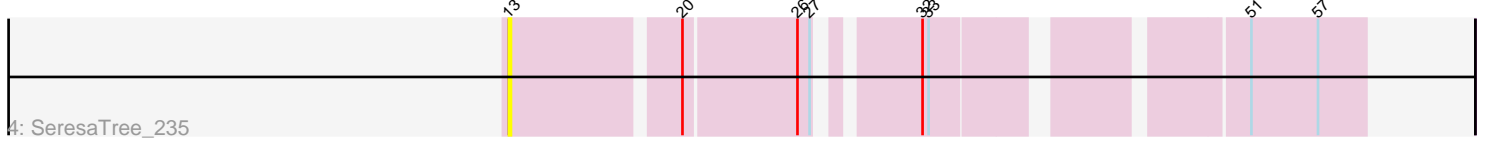
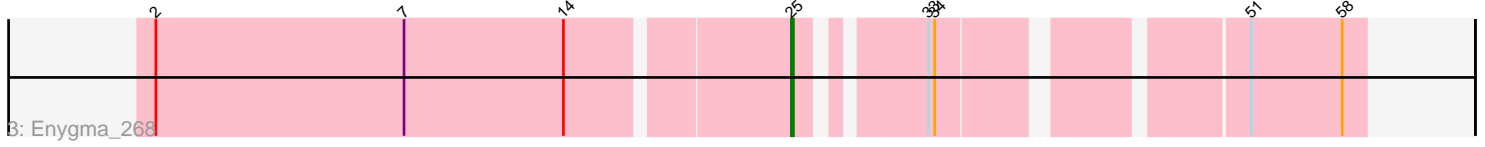
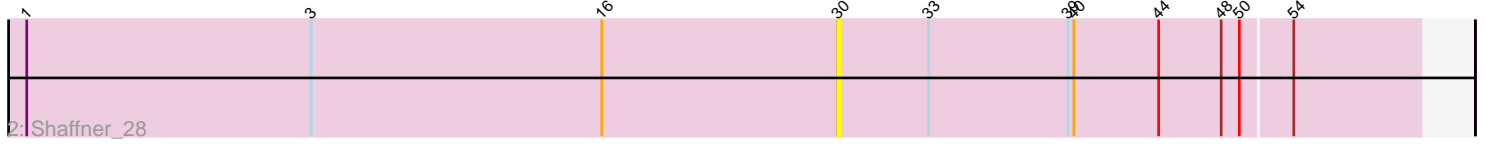
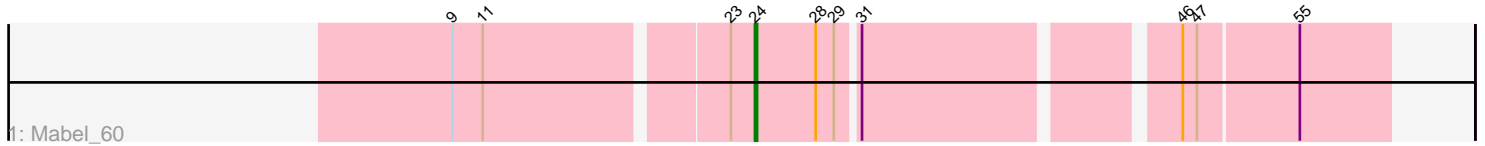


Pham 224980



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 224980 Report

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

Pham number 224980 has 15 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Mabel_60
- Track 2 : Shaffner_28
- Track 3 : Enygma_268
- Track 4 : SeresaTree_235
- Track 5 : OneUp_35
- Track 6 : Button_55
- Track 7 : Cardigan_148
- Track 8 : DatBoi_24
- Track 9 : Mollymur_24
- Track 10 : Ronaldo_109, Fryberger_107, Guey18_112, Volt_111, Ziko_110
- Track 11 : Pavlo_44

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

The start number called the most often in the published annotations is 35, it was called in 5 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Fryberger_107, Guey18_112, Ronaldo_109, Volt_111, Ziko_110,

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

-

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

- Button_55, Cardigan_148, DatBoi_24, Enygma_268, Mabel_60, Mollymur_24, OneUp_35, Pavlo_44, SeresaTree_235, Shaffner_28,

Summary by start number:

Start 13:

- Found in 1 of 15 (6.7%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: SeresaTree_235 (BK1),

Start 17:

- Found in 1 of 15 (6.7%) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DatBoi_24 (DL),

Start 18:

- Found in 1 of 15 (6.7%) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: OneUp_35 (CQ2),

Start 19:

- Found in 1 of 15 (6.7%) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Button_55 (CT),

Start 21:

- Found in 1 of 15 (6.7%) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mollymur_24 (DL),

Start 24:

- Found in 1 of 15 (6.7%) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mabel_60 (A11),

Start 25:

- Found in 1 of 15 (6.7%) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Enygma_268 (BE2),

Start 30:

- Found in 1 of 15 (6.7%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Shaffner_28 (AZ1),

Start 31:

- Found in 2 of 15 (13.3%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Cardigan_148 (DD),

Start 33:

- Found in 5 of 15 (33.3%) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 20.0% of time when present

- Phage (with cluster) where this start called: Pavlo_44 (ED1),

Start 35:

- Found in 5 of 15 (33.3%) of genes in pham
- Manual Annotations of this start: 5 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Fryberger_107 (DP), Guey18_112 (DP), Ronaldo_109 (DP), Volt_111 (DP), Ziko_110 (DP),

Summary by clusters:

There are 10 clusters represented in this pham: DL, A11, DD, ED1, BK1, AZ1, BE2, CQ2, DP, CT,

Info for manual annotations of cluster A11:

- Start number 24 was manually annotated 1 time for cluster A11.

Info for manual annotations of cluster BE2:

- Start number 25 was manually annotated 1 time for cluster BE2.

Info for manual annotations of cluster CQ2:

- Start number 18 was manually annotated 1 time for cluster CQ2.

Info for manual annotations of cluster CT:

- Start number 19 was manually annotated 1 time for cluster CT.

Info for manual annotations of cluster DL:

- Start number 17 was manually annotated 1 time for cluster DL.
- Start number 21 was manually annotated 1 time for cluster DL.

Info for manual annotations of cluster DP:

- Start number 35 was manually annotated 5 times for cluster DP.

Info for manual annotations of cluster ED1:

- Start number 33 was manually annotated 1 time for cluster ED1.

Gene Information:

Gene: Button_55 Start: 37507, Stop: 37208, Start Num: 19

Candidate Starts for Button_55:

(5, 37642), (6, 37636), (8, 37618), (Start: 19 @37507 has 1 MA's), (22, 37486), (36, 37378), (37, 37366), (43, 37303), (45, 37288), (46, 37285),

Gene: Cardigan_148 Start: 81042, Stop: 81335, Start Num: 31

Candidate Starts for Cardigan_148:

(12, 80895), (31, 81042), (42, 81144), (49, 81216), (50, 81219), (59, 81294), (61, 81303), (62, 81330),

Gene: DatBoi_24 Start: 15695, Stop: 16030, Start Num: 17

Candidate Starts for DatBoi_24:

(4, 15569), (Start: 17 @15695 has 1 MA's), (41, 15890), (56, 15989),

Gene: Enygma_268 Start: 121650, Stop: 121411, Start Num: 25

Candidate Starts for Enygma_268:

(2, 121953), (7, 121830), (14, 121752), (Start: 25 @121650 has 1 MA's), (Start: 33 @121599 has 1 MA's), (34, 121596), (51, 121467), (58, 121422),

Gene: Fryberger_107 Start: 52902, Stop: 53111, Start Num: 35

Candidate Starts for Fryberger_107:

(Start: 35 @52902 has 5 MA's), (60, 53103),

Gene: Guey18_112 Start: 54225, Stop: 54434, Start Num: 35

Candidate Starts for Guey18_112:

(Start: 35 @54225 has 5 MA's), (60, 54426),

Gene: Mabel_60 Start: 38750, Stop: 38463, Start Num: 24

Candidate Starts for Mabel_60:

(9, 38888), (11, 38873), (23, 38762), (Start: 24 @38750 has 1 MA's), (28, 38720), (29, 38711), (31, 38702), (46, 38561), (47, 38555), (55, 38507),

Gene: Mollymur_24 Start: 15771, Stop: 16076, Start Num: 21

Candidate Starts for Mollymur_24:

(4, 15615), (Start: 21 @15771 has 1 MA's), (Start: 33 @15873 has 1 MA's), (38, 15915),

Gene: OneUp_35 Start: 15247, Stop: 15564, Start Num: 18

Candidate Starts for OneUp_35:

(4, 15118), (Start: 18 @15247 has 1 MA's), (53, 15517),

Gene: Pavlo_44 Start: 22885, Stop: 22676, Start Num: 33

Candidate Starts for Pavlo_44:

(10, 23098), (15, 23038), (Start: 33 @22885 has 1 MA's), (52, 22741),

Gene: Ronaldo_109 Start: 53807, Stop: 54016, Start Num: 35

Candidate Starts for Ronaldo_109:

(Start: 35 @53807 has 5 MA's), (60, 54008),

Gene: SeresaTree_235 Start: 114238, Stop: 114606, Start Num: 13

Candidate Starts for SeresaTree_235:

(13, 114238), (20, 114316), (26, 114370), (27, 114376), (32, 114415), (Start: 33 @114418 has 1 MA's), (51, 114550), (57, 114583),

Gene: Shaffner_28 Start: 23255, Stop: 23539, Start Num: 30

Candidate Starts for Shaffner_28:

(1, 22853), (3, 22994), (16, 23138), (30, 23255), (Start: 33 @23300 has 1 MA's), (39, 23369), (40, 23372), (44, 23414), (48, 23444), (50, 23453), (54, 23477),

Gene: Volt_111 Start: 53971, Stop: 54180, Start Num: 35

Candidate Starts for Volt_111:

(Start: 35 @53971 has 5 MA's), (60, 54172),

Gene: Ziko_110 Start: 53813, Stop: 54022, Start Num: 35

Candidate Starts for Ziko_110:

(Start: 35 @53813 has 5 MA's), (60, 54014),