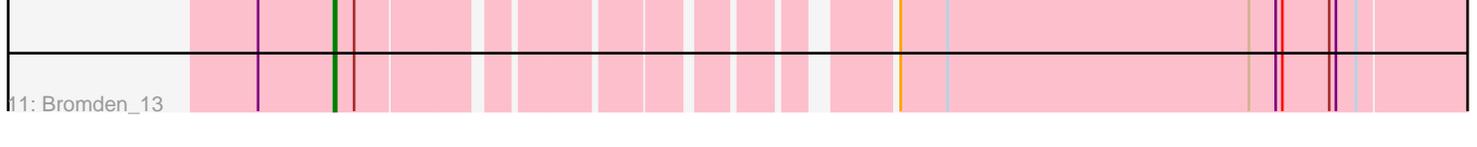
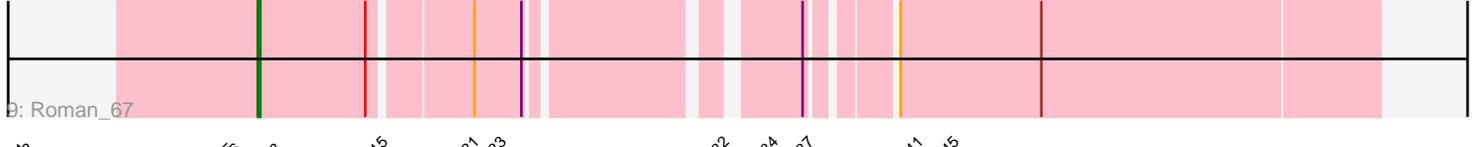
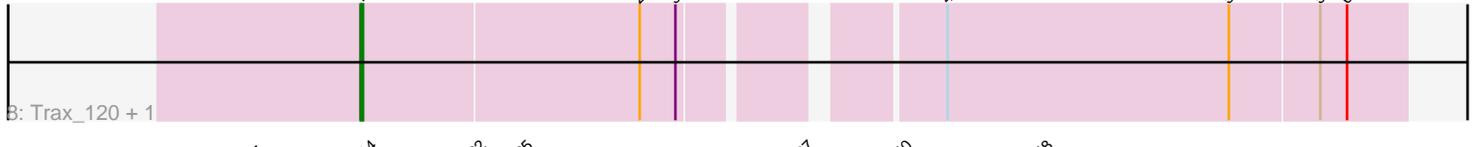
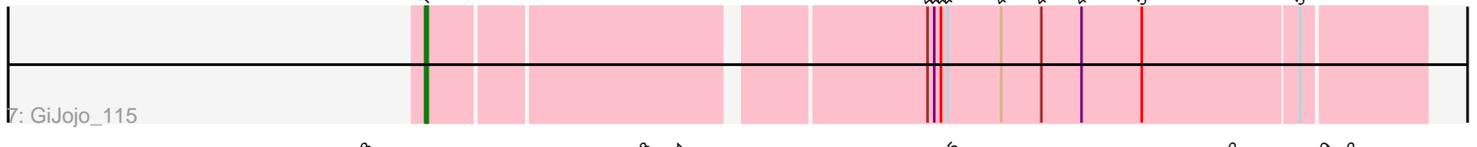
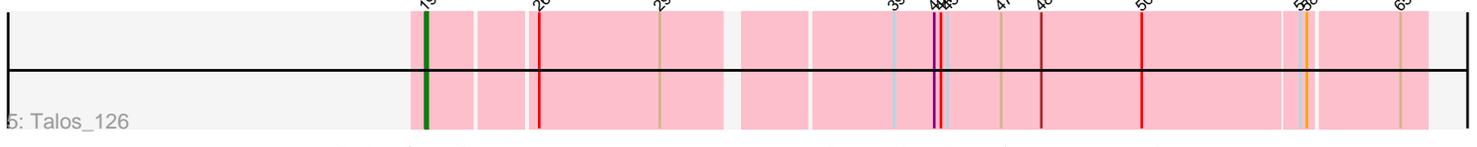
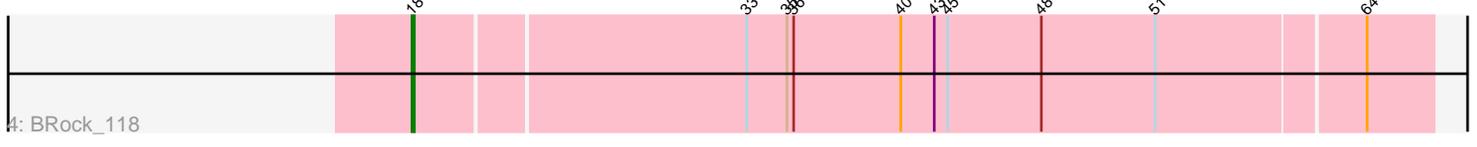
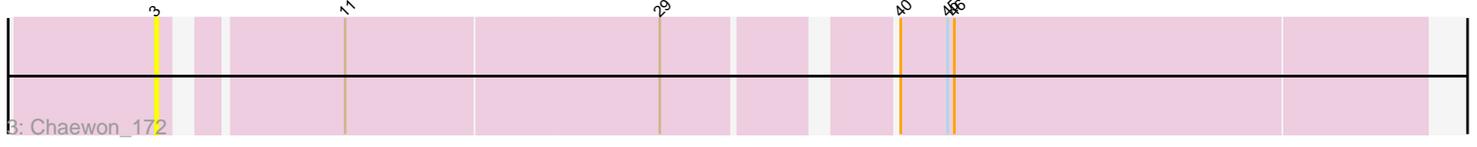
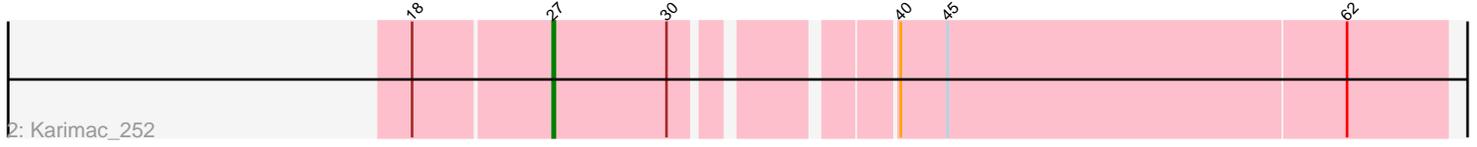
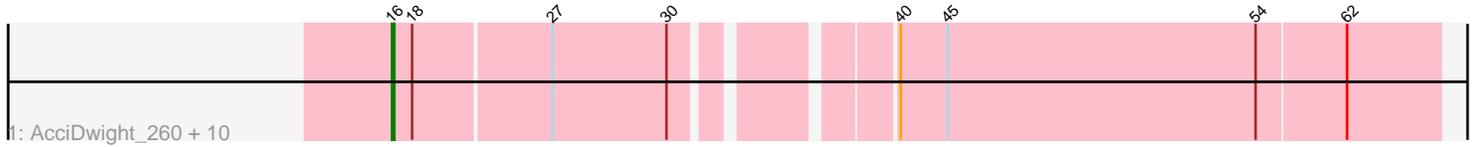


Pham 289753



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 289753 Report

This analysis was run 03/28/26 on database version 641.

Pham number 289753 has 22 members, 3 are drafts.

Phages represented in each track:

- Track 1 : AcciDwight_260, Quaran19_252, Gibbi_260, Wipeout_242, CeilingFan_256, Spilled_259, Rikishi_253, TomSawyer_256, JimJam_259, KentuckyRacer_258, Enygma_258
- Track 2 : Karimac_252
- Track 3 : Chaewon_172
- Track 4 : BRock_118
- Track 5 : Talos_126
- Track 6 : GiJojo_172
- Track 7 : GiJojo_115
- Track 8 : Trax_120, Neville_119
- Track 9 : Roman_67
- Track 10 : Cece_187
- Track 11 : Bromden_13

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

The start number called the most often in the published annotations is 16, it was called in 9 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AcciDwight_260, CeilingFan_256, Enygma_258, Gibbi_260, JimJam_259, KentuckyRacer_258, Quaran19_252, Rikishi_253, Spilled_259, TomSawyer_256, Wipeout_242,

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

-

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

- BRock_118, Bromden_13, Cece_187, Chaewon_172, GiJojo_115, GiJojo_172, Karimac_252, Neville_119, Roman_67, Talos_126, Trax_120,

Summary by start number:

Start 3:

- Found in 1 of 22 (4.5%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Chaewon_172 (BK2),

Start 4:

- Found in 1 of 22 (4.5%) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GiJojo_172 (BS),

Start 7:

- Found in 3 of 22 (13.6%) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Roman_67 (ED1),

Start 8:

- Found in 1 of 22 (4.5%) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cece_187 (GD3),

Start 9:

- Found in 1 of 22 (4.5%) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bromden_13 (L4),

Start 13:

- Found in 2 of 22 (9.1%) of genes in pham
- Manual Annotations of this start: 2 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Neville_119 (DU2), Trax_120 (DU2),

Start 16:

- Found in 11 of 22 (50.0%) of genes in pham
- Manual Annotations of this start: 9 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AcciDwight_260 (BE2), CeilingFan_256 (BE2), Enygma_258 (BE2), Gibbi_260 (BE2), JimJam_259 (BE2), KentuckyRacer_258 (BE2), Quarant19_252 (BE2), Rikishi_253 (BE2), Spilled_259 (BE2), TomSawyer_256 (BE2), Wipeout_242 (BE2),

Start 18:

- Found in 13 of 22 (59.1%) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 7.7% of time when present
- Phage (with cluster) where this start called: BRock_118 (BS),

Start 19:

- Found in 2 of 22 (9.1%) of genes in pham
- Manual Annotations of this start: 2 of 19

- Called 100.0% of time when present
- Phage (with cluster) where this start called: GiJojo_115 (BS), Talos_126 (BS),

Start 27:

- Found in 12 of 22 (54.5%) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 8.3% of time when present
- Phage (with cluster) where this start called: Karimac_252 (BE2),

Summary by clusters:

There are 7 clusters represented in this pham: GD3, L4, ED1, BK2, BS, BE2, DU2,

Info for manual annotations of cluster BE2:

- Start number 16 was manually annotated 9 times for cluster BE2.
- Start number 27 was manually annotated 1 time for cluster BE2.

Info for manual annotations of cluster BS:

- Start number 4 was manually annotated 1 time for cluster BS.
- Start number 18 was manually annotated 1 time for cluster BS.
- Start number 19 was manually annotated 2 times for cluster BS.

Info for manual annotations of cluster DU2:

- Start number 13 was manually annotated 2 times for cluster DU2.

Info for manual annotations of cluster ED1:

- Start number 7 was manually annotated 1 time for cluster ED1.

Info for manual annotations of cluster GD3:

- Start number 8 was manually annotated 1 time for cluster GD3.

Info for manual annotations of cluster L4:

- Start number 9 was manually annotated 1 time for cluster L4.

Gene Information:

Gene: AcciDwight_260 Start: 115946, Stop: 116386, Start Num: 16

Candidate Starts for AcciDwight_260:

(Start: 16 @115946 has 9 MA's), (Start: 18 @115955 has 1 MA's), (Start: 27 @116015 has 1 MA's), (30, 116066), (40, 116147), (45, 116168), (54, 116306), (62, 116345),

Gene: BRock_118 Start: 64876, Stop: 65322, Start Num: 18

Candidate Starts for BRock_118:

(Start: 18 @64876 has 1 MA's), (33, 65020), (35, 65038), (36, 65041), (40, 65089), (43, 65104), (45, 65110), (48, 65152), (51, 65203), (64, 65293),

Gene: Bromden_13 Start: 8696, Stop: 9157, Start Num: 9

Candidate Starts for Bromden_13:

(Start: 7 @8663 has 1 MA's), (Start: 9 @8696 has 1 MA's), (12, 8705), (40, 8900), (45, 8921), (53, 9056), (55, 9068), (56, 9071), (60, 9092), (61, 9095), (63, 9104),

Gene: Cece_187 Start: 114127, Stop: 113666, Start Num: 8

Candidate Starts for Cece_187:

(1, 114241), (2, 114238), (5, 114148), (6, 114145), (Start: 8 @114127 has 1 MA's), (15, 114082), (21, 114043), (23, 114034), (32, 113941), (34, 113923), (37, 113908), (41, 113875), (45, 113860),

Gene: CeilingFan_256 Start: 116457, Stop: 116897, Start Num: 16

Candidate Starts for CeilingFan_256:

(Start: 16 @116457 has 9 MA's), (Start: 18 @116466 has 1 MA's), (Start: 27 @116526 has 1 MA's), (30, 116577), (40, 116658), (45, 116679), (54, 116817), (62, 116856),

Gene: Chaewon_172 Start: 94091, Stop: 94618, Start Num: 3

Candidate Starts for Chaewon_172:

(3, 94091), (11, 94160), (29, 94298), (40, 94385), (45, 94406), (46, 94409),

Gene: Enygma_258 Start: 118257, Stop: 118697, Start Num: 16

Candidate Starts for Enygma_258:

(Start: 16 @118257 has 9 MA's), (Start: 18 @118266 has 1 MA's), (Start: 27 @118326 has 1 MA's), (30, 118377), (40, 118458), (45, 118479), (54, 118617), (62, 118656),

Gene: GiJojo_172 Start: 92929, Stop: 93441, Start Num: 4

Candidate Starts for GiJojo_172:

(Start: 4 @92929 has 1 MA's), (Start: 7 @92962 has 1 MA's), (10, 92998), (14, 93010), (17, 93028), (20, 93052), (24, 93070), (38, 93199), (40, 93232), (44, 93250), (45, 93253), (47, 93277), (51, 93346),

Gene: GiJojo_115 Start: 67939, Stop: 68364, Start Num: 19

Candidate Starts for GiJojo_115:

(Start: 19 @67939 has 2 MA's), (42, 68146), (43, 68149), (44, 68152), (45, 68155), (47, 68179), (48, 68197), (49, 68215), (50, 68242), (57, 68311),

Gene: Gibbi_260 Start: 115950, Stop: 116390, Start Num: 16

Candidate Starts for Gibbi_260:

(Start: 16 @115950 has 9 MA's), (Start: 18 @115959 has 1 MA's), (Start: 27 @116019 has 1 MA's), (30, 116070), (40, 116151), (45, 116172), (54, 116310), (62, 116349),

Gene: JimJam_259 Start: 117386, Stop: 117826, Start Num: 16

Candidate Starts for JimJam_259:

(Start: 16 @117386 has 9 MA's), (Start: 18 @117395 has 1 MA's), (Start: 27 @117455 has 1 MA's), (30, 117506), (40, 117587), (45, 117608), (54, 117746), (62, 117785),

Gene: Karimac_252 Start: 115850, Stop: 116224, Start Num: 27

Candidate Starts for Karimac_252:

(Start: 18 @115790 has 1 MA's), (Start: 27 @115850 has 1 MA's), (30, 115901), (40, 115982), (45, 116003), (62, 116180),

Gene: KentuckyRacer_258 Start: 117301, Stop: 117741, Start Num: 16

Candidate Starts for KentuckyRacer_258:

(Start: 16 @117301 has 9 MA's), (Start: 18 @117310 has 1 MA's), (Start: 27 @117370 has 1 MA's), (30, 117421), (40, 117502), (45, 117523), (54, 117661), (62, 117700),

Gene: Neville_119 Start: 67317, Stop: 67757, Start Num: 13

Candidate Starts for Neville_119:

(Start: 13 @67317 has 2 MA's), (28, 67440), (31, 67455), (45, 67554), (52, 67680), (59, 67719), (62, 67731),

Gene: Quaran19_252 Start: 115643, Stop: 116083, Start Num: 16

Candidate Starts for Quaran19_252:

(Start: 16 @115643 has 9 MA's), (Start: 18 @115652 has 1 MA's), (Start: 27 @115712 has 1 MA's), (30, 115763), (40, 115844), (45, 115865), (54, 116003), (62, 116042),

Gene: Rikishi_253 Start: 115924, Stop: 116364, Start Num: 16

Candidate Starts for Rikishi_253:

(Start: 16 @115924 has 9 MA's), (Start: 18 @115933 has 1 MA's), (Start: 27 @115993 has 1 MA's), (30, 116044), (40, 116125), (45, 116146), (54, 116284), (62, 116323),

Gene: Roman_67 Start: 39014, Stop: 38559, Start Num: 7

Candidate Starts for Roman_67:

(Start: 7 @39014 has 1 MA's), (14, 38966), (22, 38924), (25, 38903), (37, 38801), (40, 38771), (48, 38708),

Gene: Spilled_259 Start: 116318, Stop: 116758, Start Num: 16

Candidate Starts for Spilled_259:

(Start: 16 @116318 has 9 MA's), (Start: 18 @116327 has 1 MA's), (Start: 27 @116387 has 1 MA's), (30, 116438), (40, 116519), (45, 116540), (54, 116678), (62, 116717),

Gene: Talos_126 Start: 67102, Stop: 67527, Start Num: 19

Candidate Starts for Talos_126:

(Start: 19 @67102 has 2 MA's), (26, 67147), (29, 67201), (39, 67294), (43, 67312), (44, 67315), (45, 67318), (47, 67342), (48, 67360), (50, 67405), (57, 67474), (58, 67477), (65, 67516),

Gene: TomSawyer_256 Start: 117629, Stop: 118069, Start Num: 16

Candidate Starts for TomSawyer_256:

(Start: 16 @117629 has 9 MA's), (Start: 18 @117638 has 1 MA's), (Start: 27 @117698 has 1 MA's), (30, 117749), (40, 117830), (45, 117851), (54, 117989), (62, 118028),

Gene: Trax_120 Start: 68137, Stop: 68577, Start Num: 13

Candidate Starts for Trax_120:

(Start: 13 @68137 has 2 MA's), (28, 68260), (31, 68275), (45, 68374), (52, 68500), (59, 68539), (62, 68551),

Gene: Wipeout_242 Start: 116581, Stop: 117021, Start Num: 16

Candidate Starts for Wipeout_242:

(Start: 16 @116581 has 9 MA's), (Start: 18 @116590 has 1 MA's), (Start: 27 @116650 has 1 MA's), (30, 116701), (40, 116782), (45, 116803), (54, 116941), (62, 116980),