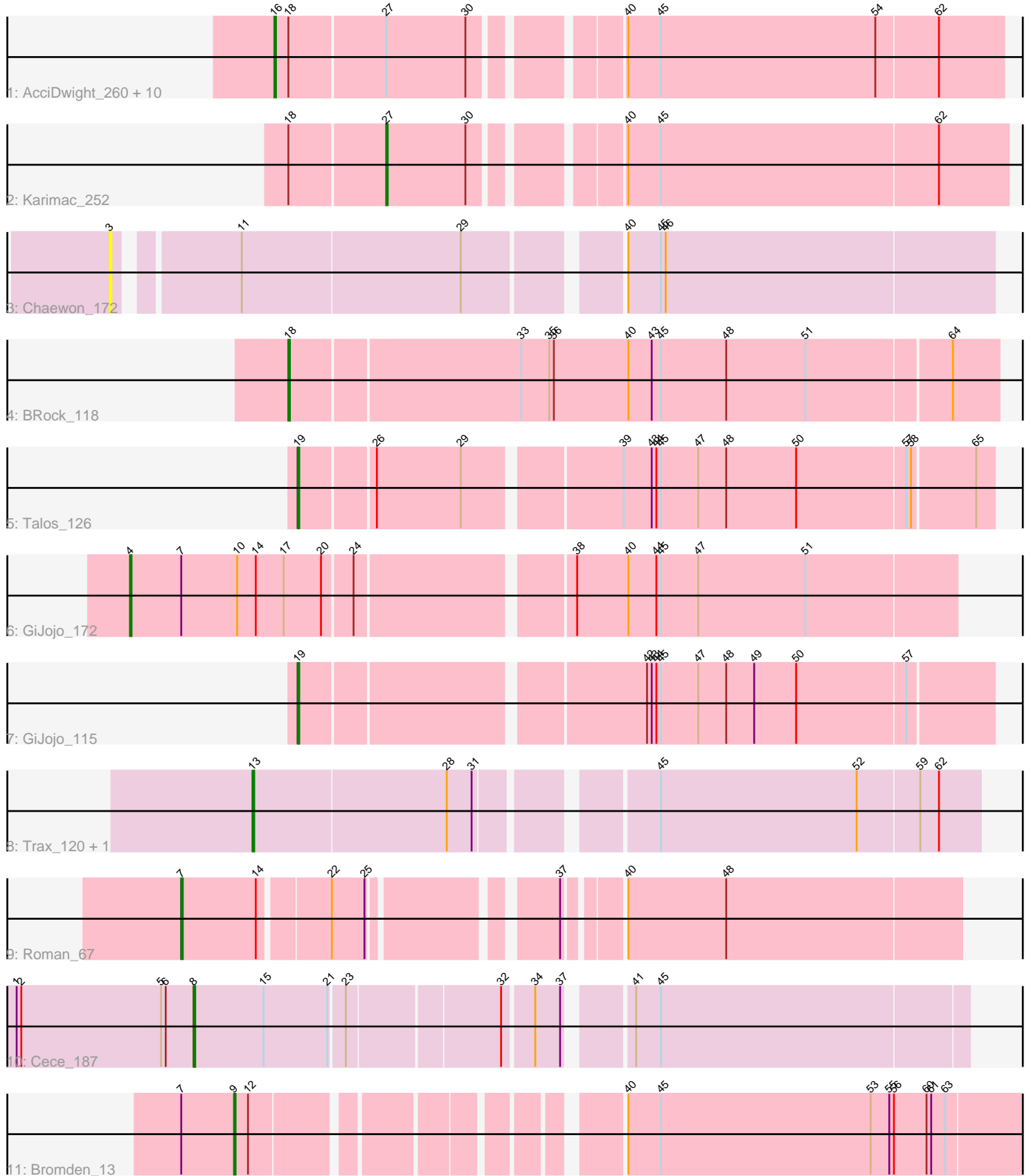


# Pham 278582



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 278582 Report

This analysis was run 02/07/26 on database version 634.

Pham number 278582 has 22 members, 3 are drafts.

Phages represented in each track:

- Track 1 : AcciDwight\_260, Quarant19\_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, Quarant19\_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: Quarant19\_252 Start: 115643, Stop: 116083, Start Num: 16

Candidate Starts for Quarant19\_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),