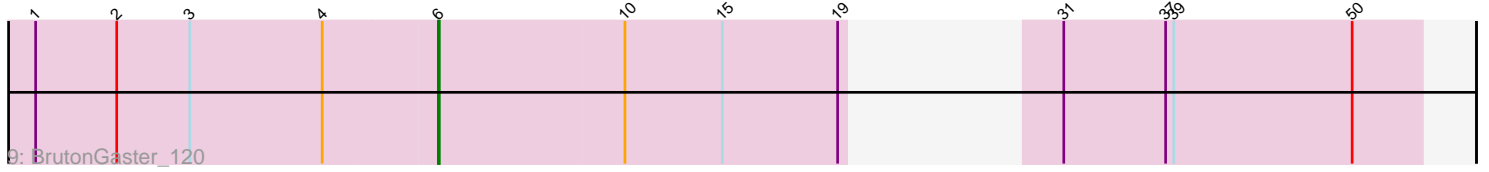
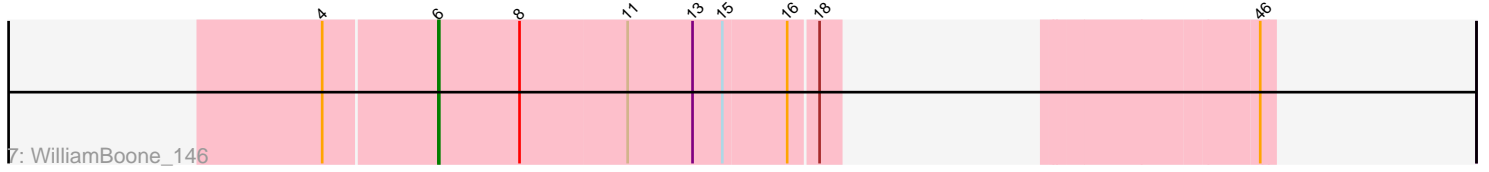
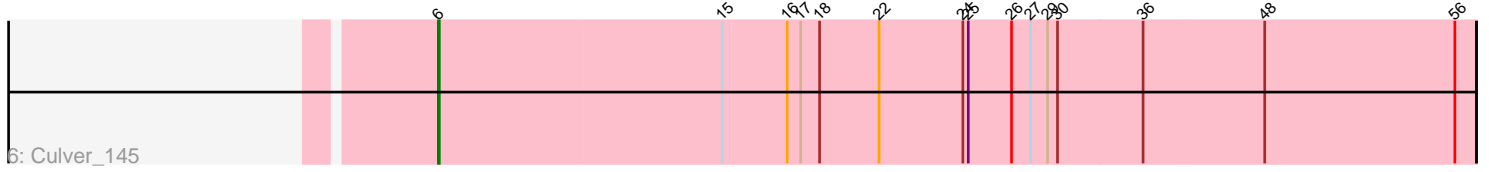
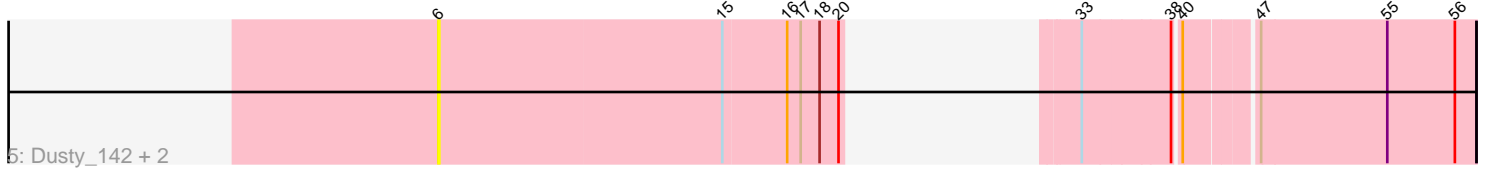
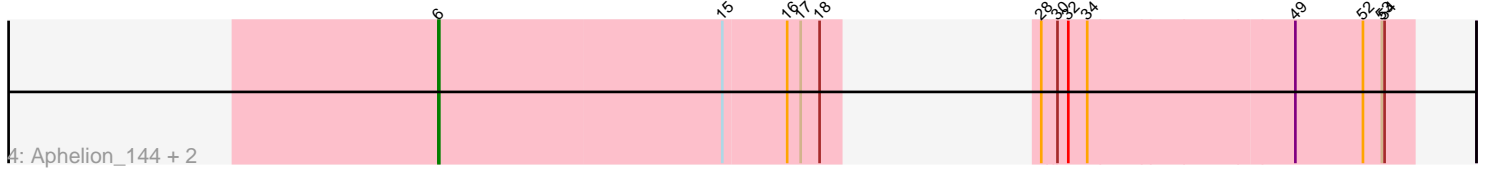
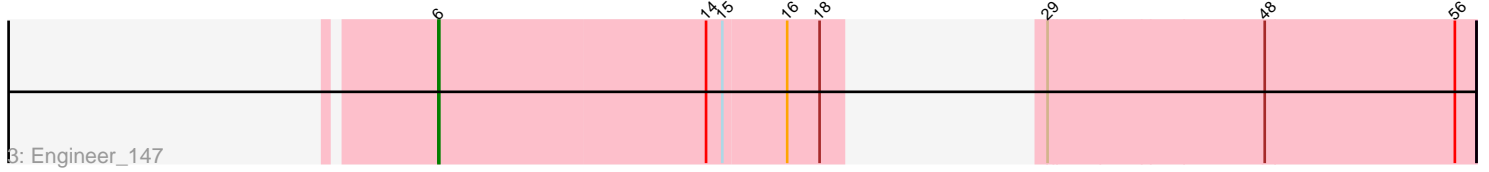
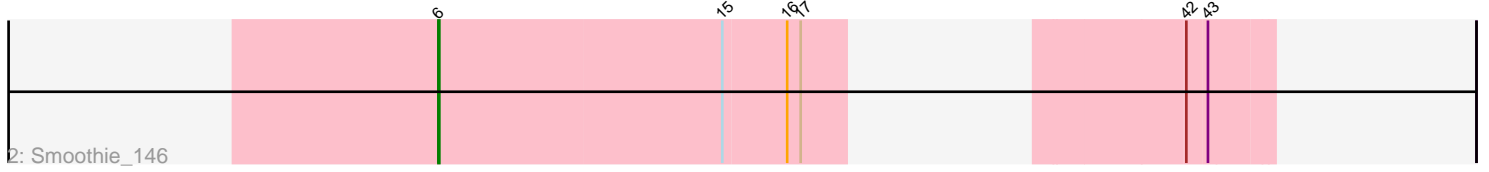
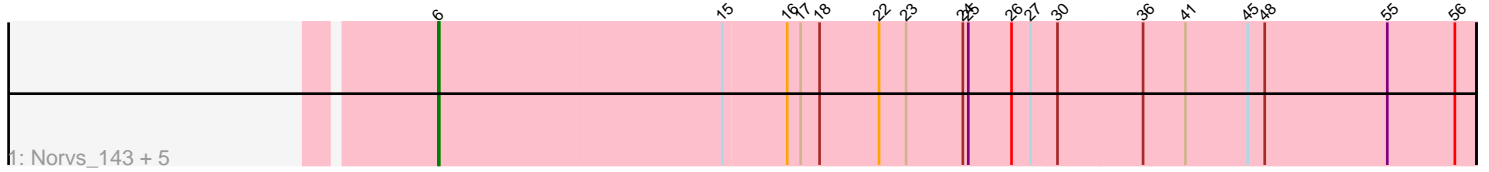


# Pham 216607



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 216607 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216607 has 18 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Norvs\_143, ClubL\_145, Bachita\_148, Cucurbita\_144, Lozinak\_145, Toniann\_145
- Track 2 : Smoothie\_146
- Track 3 : Engineer\_147
- Track 4 : Aphelion\_144, Miskis\_143, PhinkBoden\_143
- Track 5 : Dusty\_142, Geeche\_146, Abscondus\_145
- Track 6 : Culver\_145
- Track 7 : WilliamBoone\_146
- Track 8 : OneUp\_129
- Track 9 : BrutonGaster\_120

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

The start number called the most often in the published annotations is 6, it was called in 13 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abscondus\_145, Aphelion\_144, Bachita\_148, BrutonGaster\_120, ClubL\_145, Cucurbita\_144, Culver\_145, Dusty\_142, Engineer\_147, Geeche\_146, Lozinak\_145, Miskis\_143, Norvs\_143, PhinkBoden\_143, Smoothie\_146, Toniann\_145, WilliamBoone\_146,

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

- 

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

- OneUp\_129,

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

Start 5:

- Found in 1 of 18 ( 5.6% ) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 100.0% of time when present

- Phage (with cluster) where this start called: OneUp\_129 (CQ2),

Start 6:

- Found in 17 of 18 ( 94.4% ) of genes in pham
- Manual Annotations of this start: 13 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abscondus\_145 (CQ1), Aphelion\_144 (CQ1), Bachita\_148 (CQ1), BrutonGaster\_120 (CQ2), ClubL\_145 (CQ1), Cucurbita\_144 (CQ1), Culver\_145 (CQ1), Dusty\_142 (CQ1), Engineer\_147 (CQ1), Geeche\_146 (CQ1), Lozinak\_145 (CQ1), Miskis\_143 (CQ1), Norvs\_143 (CQ1), PhinkBoden\_143 (CQ1), Smoothie\_146 (CQ1), Toniann\_145 (CQ1), WilliamBoone\_146 (CQ1),

### Summary by clusters:

There are 2 clusters represented in this pham: CQ2, CQ1,

Info for manual annotations of cluster CQ1:

- Start number 6 was manually annotated 12 times for cluster CQ1.

Info for manual annotations of cluster CQ2:

- Start number 5 was manually annotated 1 time for cluster CQ2.
- Start number 6 was manually annotated 1 time for cluster CQ2.

### Gene Information:

Gene: Abscondus\_145 Start: 78207, Stop: 79091, Start Num: 6

Candidate Starts for Abscondus\_145:

(Start: 6 @78207 has 13 MA's), (15, 78519), (16, 78585), (17, 78600), (18, 78621), (20, 78642), (33, 78687), (38, 78780), (40, 78786), (47, 78855), (55, 78993), (56, 79068),

Gene: Aphelion\_144 Start: 79132, Stop: 79980, Start Num: 6

Candidate Starts for Aphelion\_144:

(Start: 6 @79132 has 13 MA's), (15, 79444), (16, 79510), (17, 79525), (18, 79546), (28, 79579), (30, 79594), (32, 79606), (34, 79627), (49, 79849), (52, 79924), (53, 79945), (54, 79948),

Gene: Bachita\_148 Start: 78997, Stop: 80130, Start Num: 6

Candidate Starts for Bachita\_148:

(Start: 6 @78997 has 13 MA's), (15, 79309), (16, 79375), (17, 79390), (18, 79411), (22, 79477), (23, 79507), (24, 79570), (25, 79576), (26, 79624), (27, 79645), (30, 79672), (36, 79765), (41, 79810), (45, 79879), (48, 79897), (55, 80032), (56, 80107),

Gene: BrutonGaster\_120 Start: 72413, Stop: 73297, Start Num: 6

Candidate Starts for BrutonGaster\_120:

(1, 71975), (2, 72065), (3, 72146), (4, 72293), (Start: 6 @72413 has 13 MA's), (10, 72617), (15, 72725), (19, 72851), (31, 72905), (37, 73013), (39, 73022), (50, 73220),

Gene: ClubL\_145 Start: 77571, Stop: 78704, Start Num: 6

Candidate Starts for ClubL\_145:

(Start: 6 @77571 has 13 MA's), (15, 77883), (16, 77949), (17, 77964), (18, 77985), (22, 78051), (23, 78081), (24, 78144), (25, 78150), (26, 78198), (27, 78219), (30, 78246), (36, 78339), (41, 78384), (45,

78453), (48, 78471), (55, 78606), (56, 78681),

Gene: Cucurbita\_144 Start: 79310, Stop: 80443, Start Num: 6

Candidate Starts for Cucurbita\_144:

(Start: 6 @79310 has 13 MA's), (15, 79622), (16, 79688), (17, 79703), (18, 79724), (22, 79790), (23, 79820), (24, 79883), (25, 79889), (26, 79937), (27, 79958), (30, 79985), (36, 80078), (41, 80123), (45, 80192), (48, 80210), (55, 80345), (56, 80420),

Gene: Culver\_145 Start: 77574, Stop: 78707, Start Num: 6

Candidate Starts for Culver\_145:

(Start: 6 @77574 has 13 MA's), (15, 77886), (16, 77952), (17, 77967), (18, 77988), (22, 78054), (24, 78147), (25, 78153), (26, 78201), (27, 78222), (29, 78240), (30, 78249), (36, 78342), (48, 78474), (56, 78684),

Gene: Dusty\_142 Start: 78034, Stop: 78918, Start Num: 6

Candidate Starts for Dusty\_142:

(Start: 6 @78034 has 13 MA's), (15, 78346), (16, 78412), (17, 78427), (18, 78448), (20, 78469), (33, 78514), (38, 78607), (40, 78613), (47, 78682), (55, 78820), (56, 78895),

Gene: Engineer\_147 Start: 79046, Stop: 79966, Start Num: 6

Candidate Starts for Engineer\_147:

(Start: 6 @79046 has 13 MA's), (14, 79340), (15, 79358), (16, 79424), (18, 79460), (29, 79499), (48, 79733), (56, 79943),

Gene: Geeche\_146 Start: 78460, Stop: 79344, Start Num: 6

Candidate Starts for Geeche\_146:

(Start: 6 @78460 has 13 MA's), (15, 78772), (16, 78838), (17, 78853), (18, 78874), (20, 78895), (33, 78940), (38, 79033), (40, 79039), (47, 79108), (55, 79246), (56, 79321),

Gene: Lozinak\_145 Start: 78838, Stop: 79971, Start Num: 6

Candidate Starts for Lozinak\_145:

(Start: 6 @78838 has 13 MA's), (15, 79150), (16, 79216), (17, 79231), (18, 79252), (22, 79318), (23, 79348), (24, 79411), (25, 79417), (26, 79465), (27, 79486), (30, 79513), (36, 79606), (41, 79651), (45, 79720), (48, 79738), (55, 79873), (56, 79948),

Gene: Miskis\_143 Start: 77881, Stop: 78729, Start Num: 6

Candidate Starts for Miskis\_143:

(Start: 6 @77881 has 13 MA's), (15, 78193), (16, 78259), (17, 78274), (18, 78295), (28, 78328), (30, 78343), (32, 78355), (34, 78376), (49, 78598), (52, 78673), (53, 78694), (54, 78697),

Gene: Norvs\_143 Start: 78029, Stop: 79162, Start Num: 6

Candidate Starts for Norvs\_143:

(Start: 6 @78029 has 13 MA's), (15, 78341), (16, 78407), (17, 78422), (18, 78443), (22, 78509), (23, 78539), (24, 78602), (25, 78608), (26, 78656), (27, 78677), (30, 78704), (36, 78797), (41, 78842), (45, 78911), (48, 78929), (55, 79064), (56, 79139),

Gene: OneUp\_129 Start: 76870, Stop: 77817, Start Num: 5

Candidate Starts for OneUp\_129:

(Start: 5 @76870 has 1 MA's), (7, 76921), (9, 77029), (12, 77107), (19, 77326), (21, 77356), (35, 77515), (38, 77566), (44, 77635), (51, 77767),

Gene: PhinkBoden\_143 Start: 78709, Stop: 79557, Start Num: 6

Candidate Starts for PhinkBoden\_143:

(Start: 6 @78709 has 13 MA's), (15, 79021), (16, 79087), (17, 79102), (18, 79123), (28, 79156), (30, 79171), (32, 79183), (34, 79204), (49, 79426), (52, 79501), (53, 79522), (54, 79525),

Gene: Smoothie\_146 Start: 78850, Stop: 79545, Start Num: 6

Candidate Starts for Smoothie\_146:

(Start: 6 @78850 has 13 MA's), (15, 79162), (16, 79228), (17, 79243), (42, 79456), (43, 79477),

Gene: Toniann\_145 Start: 78170, Stop: 79303, Start Num: 6

Candidate Starts for Toniann\_145:

(Start: 6 @78170 has 13 MA's), (15, 78482), (16, 78548), (17, 78563), (18, 78584), (22, 78650), (23, 78680), (24, 78743), (25, 78749), (26, 78797), (27, 78818), (30, 78845), (36, 78938), (41, 78983), (45, 79052), (48, 79070), (55, 79205), (56, 79280),

Gene: WilliamBoone\_146 Start: 76888, Stop: 77556, Start Num: 6

Candidate Starts for WilliamBoone\_146:

(4, 76765), (Start: 6 @76888 has 13 MA's), (8, 76978), (11, 77095), (13, 77167), (15, 77200), (16, 77266), (18, 77296), (46, 77542),