

Pham 158121



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 158121 Report

This analysis was run 04/13/24 on database version 558.

Pham number 158121 has 27 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Niklas\_65, Shaobing\_65, Peanam\_65
- Track 2 : LaterM\_63
- Track 3 : Stinson\_64
- Track 4 : Validus\_67
- Track 5 : Megsy\_65
- Track 6 : LastHope\_67
- Track 7 : Pixie\_62, ShedlockHolmes\_64
- Track 8 : TribbleTrouble\_63
- Track 9 : Keshu\_65
- Track 10 : MacnCheese\_65
- Track 11 : Hurricane\_63
- Track 12 : Pharb\_62
- Track 13 : Unicorn\_64, PhelpsODU\_64
- Track 14 : Hammy\_62, Amohnition\_62, DarthP\_62
- Track 15 : Yuna\_68
- Track 16 : Phrank\_66, Tierra\_66, Cain\_66, Bryler\_66
- Track 17 : Krueger\_67
- Track 18 : TClif\_64

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

The start number called the most often in the published annotations is 5, it was called in 7 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- LastHope\_67, LaterM\_63, Megsy\_65, Niklas\_65, Peanam\_65, Shaobing\_65, Stinson\_64, Validus\_67,

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

- 

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

- Amohnition\_62, Bryler\_66, Cain\_66, DarthP\_62, Hammy\_62, Hurricane\_63, Keshu\_65, Krueger\_67, MacnCheese\_65, Pharb\_62, PhelpsODU\_64, Phrank\_66,

Pixie\_62, ShedlockHolmes\_64, TClif\_64, Tierra\_66, TribbleTrouble\_63, Unicorn\_64, Yuna\_68,

### Summary by start number:

Start 4:

- Found in 3 of 27 ( 11.1% ) of genes in pham
- Manual Annotations of this start: 3 of 24
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amohnition\_62 (K6), DarthP\_62 (K6), Hammy\_62 (K6),

Start 5:

- Found in 8 of 27 ( 29.6% ) of genes in pham
- Manual Annotations of this start: 7 of 24
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LastHope\_67 (K1), LaterM\_63 (K1), Megsy\_65 (K1), Niklas\_65 (K1), Peanam\_65 (K1), Shaobing\_65 (K1), Stinson\_64 (K1), Validus\_67 (K1),

Start 6:

- Found in 9 of 27 ( 33.3% ) of genes in pham
- Manual Annotations of this start: 7 of 24
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hurricane\_63 (K3), Keshu\_65 (K3), MacnCheese\_65 (K3), Pharb\_62 (K3), Pixie\_62 (K3), ShedlockHolmes\_64 (K3), TClif\_64 (K6), TribbleTrouble\_63 (K3), Yuna\_68 (K6),

Start 14:

- Found in 7 of 27 ( 25.9% ) of genes in pham
- Manual Annotations of this start: 6 of 24
- Called 85.7% of time when present
- Phage (with cluster) where this start called: Bryler\_66 (K6), Cain\_66 (K6), PhelpsODU\_64 (K6), Phrank\_66 (K6), Tierra\_66 (K6), Unicorn\_64 (K6),

Start 15:

- Found in 1 of 27 ( 3.7% ) of genes in pham
- Manual Annotations of this start: 1 of 24
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Krueger\_67 (K6),

### Summary by clusters:

There are 3 clusters represented in this pham: K3, K1, K6,

Info for manual annotations of cluster K1:

- Start number 5 was manually annotated 7 times for cluster K1.

Info for manual annotations of cluster K3:

- Start number 6 was manually annotated 6 times for cluster K3.

Info for manual annotations of cluster K6:

- Start number 4 was manually annotated 3 times for cluster K6.

- Start number 6 was manually annotated 1 time for cluster K6.
- Start number 14 was manually annotated 6 times for cluster K6.
- Start number 15 was manually annotated 1 time for cluster K6.

### **Gene Information:**

Gene: Amohnition\_62 Start: 42807, Stop: 43085, Start Num: 4

Candidate Starts for Amohnition\_62:

(Start: 4 @42807 has 3 MA's), (8, 42834), (12, 42855), (18, 42891), (19, 42903), (24, 42987), (26, 43044), (27, 43047),

Gene: Bryler\_66 Start: 42196, Stop: 42426, Start Num: 14

Candidate Starts for Bryler\_66:

(3, 42049), (Start: 14 @42196 has 6 MA's), (17, 42211), (18, 42226), (20, 42280), (24, 42322), (30, 42409),

Gene: Cain\_66 Start: 42184, Stop: 42414, Start Num: 14

Candidate Starts for Cain\_66:

(3, 42037), (Start: 14 @42184 has 6 MA's), (17, 42199), (18, 42214), (20, 42268), (24, 42310), (30, 42397),

Gene: DARTH\_P\_62 Start: 42661, Stop: 42939, Start Num: 4

Candidate Starts for DARTH\_P\_62:

(Start: 4 @42661 has 3 MA's), (8, 42688), (12, 42709), (18, 42745), (19, 42757), (24, 42841), (26, 42898), (27, 42901),

Gene: Hammy\_62 Start: 42649, Stop: 42927, Start Num: 4

Candidate Starts for Hammy\_62:

(Start: 4 @42649 has 3 MA's), (8, 42676), (12, 42697), (18, 42733), (19, 42745), (24, 42829), (26, 42886), (27, 42889),

Gene: Hurricane\_63 Start: 42638, Stop: 42913, Start Num: 6

Candidate Starts for Hurricane\_63:

(Start: 6 @42638 has 7 MA's), (21, 42782), (23, 42797), (28, 42884), (29, 42887),

Gene: Keshu\_65 Start: 42736, Stop: 43011, Start Num: 6

Candidate Starts for Keshu\_65:

(2, 42610), (Start: 6 @42736 has 7 MA's), (21, 42880), (23, 42895), (28, 42982),

Gene: Krueger\_67 Start: 42484, Stop: 42702, Start Num: 15

Candidate Starts for Krueger\_67:

(1, 42295), (Start: 15 @42484 has 1 MA's), (20, 42556), (24, 42598), (30, 42685),

Gene: LastHope\_67 Start: 41744, Stop: 42028, Start Num: 5

Candidate Starts for LastHope\_67:

(Start: 5 @41744 has 7 MA's), (10, 41783), (13, 41795), (19, 41837), (20, 41879), (21, 41894), (24, 41921), (26, 41978), (31, 42017),

Gene: LaterM\_63 Start: 43006, Stop: 43290, Start Num: 5

Candidate Starts for LaterM\_63:

(Start: 5 @43006 has 7 MA's), (10, 43045), (16, 43072), (19, 43099), (20, 43141), (21, 43156), (24, 43183), (25, 43207), (26, 43240),

Gene: MacnCheese\_65 Start: 43252, Stop: 43530, Start Num: 6

Candidate Starts for MacnCheese\_65:

(Start: 6 @43252 has 7 MA's), (8, 43270), (21, 43399), (23, 43414), (28, 43501),

Gene: Megsy\_65 Start: 42722, Stop: 43006, Start Num: 5

Candidate Starts for Megsy\_65:

(Start: 5 @42722 has 7 MA's), (10, 42761), (19, 42815), (20, 42857), (21, 42872), (24, 42899), (25, 42923), (26, 42956),

Gene: Niklas\_65 Start: 42870, Stop: 43148, Start Num: 5

Candidate Starts for Niklas\_65:

(Start: 5 @42870 has 7 MA's), (20, 43005), (24, 43047),

Gene: Peanam\_65 Start: 42828, Stop: 43106, Start Num: 5

Candidate Starts for Peanam\_65:

(Start: 5 @42828 has 7 MA's), (20, 42963), (24, 43005),

Gene: Pharb\_62 Start: 41985, Stop: 42260, Start Num: 6

Candidate Starts for Pharb\_62:

(Start: 6 @41985 has 7 MA's), (Start: 14 @42033 has 6 MA's), (21, 42129), (23, 42144), (28, 42231),

Gene: PhelpsODU\_64 Start: 42110, Stop: 42340, Start Num: 14

Candidate Starts for PhelpsODU\_64:

(Start: 14 @42110 has 6 MA's), (17, 42125), (18, 42140), (20, 42194), (24, 42236), (30, 42323),

Gene: Phrank\_66 Start: 42174, Stop: 42404, Start Num: 14

Candidate Starts for Phrank\_66:

(3, 42027), (Start: 14 @42174 has 6 MA's), (17, 42189), (18, 42204), (20, 42258), (24, 42300), (30, 42387),

Gene: Pixie\_62 Start: 42158, Stop: 42433, Start Num: 6

Candidate Starts for Pixie\_62:

(2, 42032), (Start: 6 @42158 has 7 MA's), (21, 42302), (23, 42317), (28, 42404), (29, 42407),

Gene: Shaobing\_65 Start: 42846, Stop: 43124, Start Num: 5

Candidate Starts for Shaobing\_65:

(Start: 5 @42846 has 7 MA's), (20, 42981), (24, 43023),

Gene: ShedlockHolmes\_64 Start: 42677, Stop: 42952, Start Num: 6

Candidate Starts for ShedlockHolmes\_64:

(2, 42551), (Start: 6 @42677 has 7 MA's), (21, 42821), (23, 42836), (28, 42923), (29, 42926),

Gene: Stinson\_64 Start: 42939, Stop: 43223, Start Num: 5

Candidate Starts for Stinson\_64:

(Start: 5 @42939 has 7 MA's), (9, 42972), (10, 42978), (24, 43116), (26, 43173),

Gene: TClif\_64 Start: 42277, Stop: 42549, Start Num: 6

Candidate Starts for TClif\_64:

(Start: 6 @42277 has 7 MA's), (7, 42292), (12, 42319), (19, 42367), (20, 42409), (22, 42433), (24, 42451), (26, 42508), (27, 42511),

Gene: Tierra\_66 Start: 42985, Stop: 43215, Start Num: 14

Candidate Starts for Tierra\_66:

(3, 42838), (Start: 14 @42985 has 6 MA's), (17, 43000), (18, 43015), (20, 43069), (24, 43111), (30, 43198),

Gene: TribelTrouble\_63 Start: 43151, Stop: 43432, Start Num: 6

Candidate Starts for TribelTrouble\_63:

(Start: 6 @43151 has 7 MA's), (8, 43169), (20, 43286), (26, 43385), (28, 43403),

Gene: Unicorn\_64 Start: 42110, Stop: 42340, Start Num: 14

Candidate Starts for Unicorn\_64:

(Start: 14 @42110 has 6 MA's), (17, 42125), (18, 42140), (20, 42194), (24, 42236), (30, 42323),

Gene: Validus\_67 Start: 43191, Stop: 43469, Start Num: 5

Candidate Starts for Validus\_67:

(Start: 5 @43191 has 7 MA's), (10, 43230), (11, 43233), (19, 43284), (24, 43368), (26, 43425),

Gene: Yuna\_68 Start: 43889, Stop: 44164, Start Num: 6

Candidate Starts for Yuna\_68:

(Start: 6 @43889 has 7 MA's), (21, 44033), (23, 44048), (28, 44135),